

This safety data sheet was created pursuant to the requirements of:
UK REACH Regulations (SI 2019/758 as amended)

Supersedes date 26-Feb-2023

Revision date 23-Feb-2026

Revision Number 5.01

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Code(s)	21397
Safety data sheet number	21397
Product Name	HEXAMETHYLDISILOXANE
UK REACH registration number	01-8024631995-0-XXXX
EC Number	203-492-7
CAS No	107-46-0
Synonyms	DOW CORNING 200 FLUID 0.65 cSt, XIAMETER PMX 200 SILICONE FLUID 0.65 cSt, XM PMX 200 SF 0.65 cSt
Pure substance/mixture	Substance

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use	Manufacture of substance Used as an end-blocker in the production of silicone polymers and resins. Intermediate Laboratory chemicals Formulation or re-packing. Manufacture of personal care products Automotive Cosmetics Perfumes, fragrances Use in electronics and/or semiconductor manufacture at downstream industrial sites Sealant Cleaning of optical wear. Formulation of medical adhesives and pharmaceuticals. Non-metal surface treatment products. Solvent Industrial use Professional use Consumer use
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1.3. Details of the supplier of the safety data sheet

Supplier

Univar Solutions UK Ltd
Aquarius House
6 Mid Point Business Park
Bradford
GBR

For further information, please contact

E-mail address SDS.EMEA@univarsolutions.com

Non-Emergency Telephone Number +44 1274 267300 / +44 1274 267306

1.4. Emergency telephone number

Emergency Telephone SGS - +32 (0)3 575 55 55 (24h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Flammable liquids	Category 2 - (H225)
Acute aquatic toxicity	Category 1 - (H400)
Chronic aquatic toxicity	Category 2 - (H411)

2.2. Label elements



Signal word

Danger

Hazard statements

H400 - Very toxic to aquatic life

H411 - Toxic to aquatic life with long lasting effects

H225 - Highly flammable liquid and vapour

Precautionary statements

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

P261 - Avoid breathing spray

P271 - Use only outdoors or in a well-ventilated area

P273 - Avoid release to the environment

P370 + P378 - In case of fire: Use dry chemical, CO₂, water spray or alcohol-resistant foam to extinguish

P391 - Collect spillage

Additional information

This product requires tactile warnings if supplied to the general public.

2.3. Other hazards

Product is a static accumulator.

SECTION 3: Composition/information on ingredients

3.1 Substances

Chemical name	Weight-%	EC No (EU)	UK REACH registration	Classification according	Specific	M-Factor	M-Factor
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		Index No)	number	to GB CLP (SI 2020/1567 as amended)	concentration limit (SCL)		(long-term)
HEXAMETHYLDISILOXANE 107-46-0	100.0%	203-492-7	01-8024631995-0-XXX X	Aquatic Chronic 2 (H411) Aquatic Acute 1 (H400) Flam. Liq. 2 (H225)	-	-	-

Full text of H- and EUH-phrases: see section 16

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (UK REACH Article 59)

SECTION 4: First aid measures**4.1. Description of first aid measures**

General advice	First aid personnel should wear appropriate protective equipment during any rescue. Use personal protection recommended in Section 8.
Inhalation	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Rinse mouth thoroughly with water. Get medical attention if symptoms occur.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if symptoms occur.
Skin contact	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if symptoms occur.
Ingestion	Rinse mouth thoroughly with water. Do NOT induce vomiting. Get medical attention if symptoms occur.

4.2. Most important symptoms and effects, both acute and delayed**Symptoms**

Eyes	May cause slight eye irritation.
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4.3. Indication of any immediate medical attention and special treatment needed

Note to doctors	May cause asthma-like (reactive airways) symptoms. Bronchodilators, expectorants, antitussives and corticosteroids may be of help. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Repeated excessive exposure may aggravate preexisting lung disease.
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SECTION 5: Firefighting measures**5.1. Extinguishing media**

Suitable Extinguishing Media	Alcohol resistant foam. Carbon dioxide (CO ₂). Dry chemical. Dry sand.
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical Highly flammable liquid and vapour. When heated and in case of fire, toxic vapours/gases may be formed. Flash back possible over considerable distance. Exposure to combustion products may be a hazard to health. Flammable concentrations of vapour can accumulate at temperatures above flash point; see Section 9. Flammable mixtures may exist within the vapour space of containers at room temperature. Closed containers can burst violently when heated, due to excess pressure build-up. Vapours may form explosive mixtures with air.

Hazardous combustion products Carbon oxides. Silicon oxides. Formaldehyde.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Use personal protection recommended in Section 8. Avoid contact with skin, eyes and inhalation of vapours. Remove all sources of ignition. Eliminate all sources of ignition in vicinity of spill or released vapor to avoid fire or explosion. Ground and bond container and receiving equipment. Vapours may form explosive mixtures with air. Do not allow run-off from fire-fighting to enter drains or water courses. Follow precautions for safe handling described in this safety data sheet.

Other information Ventilate the area.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Use non-sparking tools. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Suppress (knock down) gases/vapours/mists with a water spray jet. Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Ensure adequate ventilation. Use personal protection recommended in Section 8. Avoid contact with skin, eyes and inhalation of vapours. Keep container closed when not in use. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Avoid spilling. Avoid release to the environment. Handle in accordance with good industrial hygiene and safety practice. Empty containers

retain product residue and can be hazardous. Use explosion-proof electrical, ventilating and lighting equipment. Ensure all equipment is electrically grounded before beginning transfer operations. This material can accumulate static charge due to its inherent physical properties and can therefore cause an electrical ignition source to vapors. In order to prevent a fire hazard, as bonding and grounding may be insufficient to remove static electricity, it is necessary to provide an inert gas purge before beginning transfer operations. Restrict flow velocity in order to reduce the accumulation of static electricity. Ground and bond container and receiving equipment.

General hygiene considerations Wash hands before breaks and immediately after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Keep in properly labelled containers. Keep away from open flames, hot surfaces and sources of ignition. Store away from the following materials. Strong oxidising agents. Organic peroxide. Flammable solid. Pyrophoric liquids. Pyrophoric solids. Self-heating substances and mixtures. Substances and mixtures, which in contact with water, emit flammable gases. Explosives. Gases.

7.3. Specific end use(s)

Specific use(s)

See section 1 for more information.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Biological occupational exposure limits This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
HEXAMETHYLDISILOXANE 107-46-0		333 mg/kg bw/day [4] [6]	53.4 mg/m ³ [4] [6]

[4] Systemic health effects.
[6] Long term.

Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
HEXAMETHYLDISILOXANE 107-46-0	0.27 mg/kg bw/day [4] [6]	167 mg/kg/day [4] [6]	13.3 mg/m ³ [4] [6]

[4] Systemic health effects.
[6] Long term.

Predicted No Effect Concentration (PNEC)

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
HEXAMETHYLDISILOXANE 107-46-0	0.002 mg/L	0.003 mg/L	0.0 mg/l		

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
HEXAMETHYLDISILOXANE 107-46-0	8.9 mg/kg sediment dw	0.890 mg/kg sediment dw	10 mg/L	0.083 mg/kg soil dw	5.3 mg/kg food

8.2. Exposure controls

Engineering controls No information available.

Personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). Use eye protection according to EN 166.

Hand protection Wear suitable gloves. Gloves must conform to standard EN 374.

Gloves			
Duration of contact	PPE - Glove material	Glove thickness	Break through time
	Wear protective butyl rubber gloves	> 0.35 mm	> 120 minutes
	Rubber (natural, latex)	> 0.35 mm	> 120 minutes
	Wear protective Neoprene™ gloves	> 0.35 mm	> 120 minutes
	Nitrile/butadiene rubber ("nitrile" or "NBR").	> 0.35 mm	> 120 minutes
	Ethyl vinyl alcohol laminate ("EVAL")	> 0.35 mm	> 120 minutes
	Polyvinyl chloride (PVC)	> 0.35 mm	> 120 minutes

Skin and body protection Wear appropriate clothing to prevent reasonably probable skin contact. Antistatic footwear.

Respiratory protection Use appropriate respiratory protection.
Organic gases and vapours filter conforming to EN 14387. Type AP2.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state Liquid
Appearance Liquid
Colour Colourless

Odour Characteristic.
Odour threshold No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Melting point / freezing point		Not determined.
Initial boiling point and boiling range	100 °C	@ 760 mmHg.
Flammability		No information available.
Flammability Limit in Air		
Upper flammability or explosive limits	14.65 % vol	
Lower flammability or explosive limits	1.5 % vol	
Flash point	-3.3 °C	Pensky-Martens closed cup.
Autoignition temperature	352 °C	
Decomposition temperature		No information available.
pH		No information available.
pH (as aqueous solution)		No information available.
Kinematic viscosity	0.65 mm ² /s	@ 25 °C.
Dynamic viscosity		No information available.
Water solubility		Not determined.
Solubility(ies)		No information available.
Partition coefficient	log Pow: 5.06	
Vapour pressure	42 hPa	
Relative density	0.76	
Bulk density		No information available
Liquid Density	No information available	No information available
Relative vapour density		No information available.
Particle characteristics		Not applicable.
Particle Size	No information available	
Particle Size Distribution	No information available	
Explosive properties	Not considered to be explosive.	
Oxidising properties	Does not meet the criteria for classification as oxidising	

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No known effects under normal use conditions.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge Yes.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions The following materials may react with the product:. Strong oxidising agents. When heated, vapours/gases hazardous to health may be formed. Temperatures above 150 °C / 300 °F. Formaldehyde. Provide adequate ventilation. Vapours may form explosive mixtures with air. Highly flammable liquid and vapour.

10.4. Conditions to avoid

Conditions to avoid Heat, flames and sparks. Avoid static discharge.

10.5. Incompatible materials

Incompatible materials Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products Carbon oxides. Silicon oxides. Formaldehyde.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Information on likely routes of exposure****Product Information**

Inhalation	Inhalation of dust in high concentration may cause irritation of respiratory system.
Eye contact	May cause slight eye irritation. Corneal injury is unlikely.
Skin contact	Brief contact is essentially non-irritating to skin. Prolonged contact may cause redness and irritation. May cause more severe response on covered skin (under clothing, gloves).
Ingestion	May cause discomfort if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics**Symptoms****Acute toxicity****Numerical measures of toxicity**

No information available

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
HEXAMETHYLDISILOXANE	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rat)	= 106 mg/l (Rat) 4 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Brief contact is essentially non-irritating to skin. Prolonged contact may cause redness and irritation. May cause more severe response on covered skin (under clothing, gloves).

HEXAMETHYLDISILOXANE (107-46-0)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Brief contact is essentially non-irritating to skin. Prolonged contact may cause redness and irritation May cause more severe response on covered skin (under clothing, gloves).

Serious eye damage/eye irritation May cause slight eye irritation. Corneal injury is unlikely.

HEXAMETHYLDISILOXANE (107-46-0)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					May cause slight eye irritation Corneal injury is unlikely

Respiratory or skin sensitisation Not a skin sensitiser.

HEXAMETHYLDISILOXANE (107-46-0)

Method	Species	Exposure route	Results
	Human evidence	Dermal	Not a skin sensitiser
	Guinea pig	Dermal	Not a skin sensitiser

Germ cell mutagenicity Not mutagenic.

Component Information

HEXAMETHYLDISILOXANE (107-46-0)

Method	Species	Results
	in vitro	Negative
		Negative Did not show mutagenic effects in animal experiments

Carcinogenicity Kidney effects and/or tumors have been observed in male rats. These effects are believed to be species specific and unlikely to occur in humans. Early onset of testicular cell tumors has been observed that are spontaneous and common in rats. These effects are believed to be species specific and unlikely to occur in humans.

Component Information

HEXAMETHYLDISILOXANE (107-46-0)

Method	Species	Results
		Kidney effects and/or tumors have been observed in male rats. These effects are believed to be species specific and unlikely to occur in humans. Early onset of testicular cell tumors has been observed that are spontaneous and common in rats. These effects are believed to be species specific and unlikely to occur in humans

Reproductive toxicity This product does not contain any known or suspected reproductive hazards.

HEXAMETHYLDISILOXANE (107-46-0)

Method	Species	Results
		This product does not contain any known or suspected reproductive hazards

STOT - single exposure No information available.

HEXAMETHYLDISILOXANE (107-46-0)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Evaluation of available data suggests that this material is not an STOT-SE toxicant

STOT - repeated exposure

In animals, effects have been reported on the following organs: Liver. Testes. Kidneys. However, the effects are species specific and are not relevant to humans.

Component Information

HEXAMETHYLDISILOXANE (107-46-0)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					In animals, effects have been reported on the following organs: Liver Testes Kidney However, the effects are species specific and are not relevant to humans. This material contains hexamethyldisiloxane (HMDS). Repeated inhalation exposure in rats to HMDS resulted in protoporphyrin accumulation in the liver. Without knowledge of the specific mechanism leading to the protoporphyrin accumulation the relevance of this finding to humans is unknown.

Aspiration hazard

Not determined.

Other adverse effects

No information available.

SECTION 12: Ecological information**12.1. Toxicity****Ecotoxicity**

Very toxic to aquatic life. Toxic to aquatic life with long lasting effects. Very toxic to aquatic life with long lasting effects.

HEXAMETHYLDISILOXANE (107-46-0)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
	Oncorhynchus mykiss (rainbow trout)	LC50	0.46 mg/L	96 hours	

OECD Test No. 201: Freshwater Algae and Cyanobacteria, Growth Inhibition Test	Selenastrum capricornutum	ErC50	> 0.55 mg/L	72 hours	
	Daphnia magna	NOEC	0.08 mg/L	21 days	

12.2. Persistence and degradability

Persistence and degradability Expected to biodegrade very slowly.

HEXAMETHYLDISILOXANE (107-46-0)

Method	Exposure time	Value	Results
OECD Test No. 301C: Ready Biodegradability: Modified MITI Test (I) (TG 301 C)	28 days	Biodegradation 2 %	Expected to biodegrade very slowly

12.3. Bioaccumulative potential

Bioaccumulation There is no data for this product.

Bioconcentration factor (BCF) 1971 Carp OECD 305C

Chemical name	Partition coefficient
HEXAMETHYLDISILOXANE	5.06***

12.4. Mobility in soil

Mobility in soil Not determined.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB.

Chemical name	PBT and vPvB assessment
HEXAMETHYLDISILOXANE	The substance is not PBT / vPvB

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Waste from residues/unused products Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

SECTION 14: Transport information**IATA**

- 14.1 UN number or ID number UN1993
 14.2 UN proper shipping name FLAMMABLE LIQUID, N.O.S. (HEXAMETHYLDISILOXANE)
 14.3 Transport hazard class(es) 3

14.4 Packing group	II
14.5 Environmental hazards	Yes
14.6 Special precautions for user	
Special Provisions	A3
ERG Code	3H

IMDG

14.1 UN number or ID number	UN1993
14.2 UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (HEXAMETHYLDISILOXANE)
14.3 Transport hazard class(es)	3
14.4 Packing group	II
14.5 Environmental hazards	Yes
14.6 Special precautions for user	
Special Provisions	274
EmS-No	F-E, S-E
14.7 Maritime transport in bulk according to IMO instruments	No information available

RID

14.1 UN number or ID number	UN1993
14.2 UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (HEXAMETHYLDISILOXANE)
14.3 Transport hazard class(es)	3
14.4 Packing group	II
14.5 Environmental hazards	Yes
14.6 Special precautions for user	
Special Provisions	274, 601, 640D
Classification code	F1

ADR

14.1 UN number or ID number	UN1993
14.2 UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (HEXAMETHYLDISILOXANE)
14.3 Transport hazard class(es)	3
14.4 Packing group	II
14.5 Environmental hazards	Yes
14.6 Special precautions for user	
Special Provisions	274, 601, 640C
Classification code	F1
Tunnel restriction code	(D/E)

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations****Authorisations and/or restrictions on use:**

This product does not contain substances subject to authorisation (UK REACH - Annex XIV).

This product does not contain substances subject to restriction (UK REACH - Annex XVII).

Persistent Organic Pollutants

Not applicable

Export Notification requirements

Not applicable

Dangerous substance category per COMAH Regulations 2015 (as amended)

P5c - FLAMMABLE LIQUIDS

E1 - Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1***

Named dangerous substances per COMAH Regulations 2015 (as amended)

Not applicable

The Ozone-Depleting Substances Regulations 2015

Not applicable

The Biocidal Products Regulations 2001 (as amended)

Not applicable

The Water Environment (Water Framework Directive) (England and Wales) Regulations 2017 (as amended)

Not applicable

Poisons Act 1972 (Explosive Precursors) Regulations (as Amended)

Not applicable

International Inventories

TSCA	Contact supplier for inventory compliance status
DSL/NDSL	Contact supplier for inventory compliance status
EINECS/ELINCS	Contact supplier for inventory compliance status
ENCS	Contact supplier for inventory compliance status
IECSC	Contact supplier for inventory compliance status
KECI	Contact supplier for inventory compliance status
PICCS	Contact supplier for inventory compliance status
AIIC	Contact supplier for inventory compliance status
NZIoC	Contact supplier for inventory compliance status

Legend:

TSCA	- United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL	- Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS	- European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS	- Japan Existing and New Chemical Substances
IECSC	- China Inventory of Existing Chemical Substances
KECL	- Korean Existing and Evaluated Chemical Substances
PICCS	- Philippines Inventory of Chemicals and Chemical Substances
AIIC	- Australian Inventory of Industrial Chemicals
NZIoC	- New Zealand Inventory of Chemicals

15.2. Chemical safety assessment

Chemical Safety Report A Chemical Safety Assessment has been carried out for this substance

SECTION 16: Other information**Key or legend to abbreviations and acronyms used in the safety data sheet****Legend**

SVHC: Substances of Very High Concern for Authorisation:

Legend Section 8: Exposure controls/personal protection

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
+	Sensitisers		

Revision Note **SDS sections updated 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16****Classification procedure**

Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method

Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)
European Chemicals Agency (ECHA) (ECHA_API)
Environmental Protection Agency
Acute Exposure Guideline Level(s) (AEGL(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
National Institute of Technology and Evaluation (NITE)
Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine's PubMed database (NLM PUBMED)
U.S. National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme
Organisation for Economic Co-operation and Development Screening Information Data Set
World Health Organization

Prepared By Lisa Bland

Supersedes date 26-Feb-2023

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**This material safety data sheet complies with the requirements of UK REACH Regulations (SI 2019/758 as amended)
Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work**

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

Annex to the Safety Data Sheet according to Regulation (EC) No 1907/2006 [REACH]

Product Name XIAMETER PMX 200 SILICONE FLUID 0.65 cSt
Chemical name HEXAMETHYLDISILOXANE
Pure substance/mixture Substance
REACH registration number 01-2119496108-31-XXXX
CAS No 107-46-0
EC No (EU Index No) 203-492-7
Supplier Univar Solutions UK Ltd
 Aquarius House
 6 Mid Point Business Park
 Bradford
 GBR

Non-Emergency Telephone Number +44 1274 267300 / +44 1274 267306

E-mail address SDS.EMEA@univarsolutions.com

Section 1 - Title

Title Manufacture of substance
Type Worker
Main user group Industrial uses: Uses of substances as such or in preparations at industrial sites
Environmental release category(ies) ERC1 - Manufacture of substances ERC6a - Industrial use resulting in manufacture of another substance (use of intermediates) ERC6c - Industrial use of monomers for manufacture of thermoplastics

Process category(ies) PROC1 - Use in closed process, no likelihood of exposure
 PROC2 - Use in closed, continuous process with occasional controlled exposure
 PROC3 - Use in closed batch process (synthesis or formulation)
 PROC4 - Use in batch and other process (synthesis) where opportunity for exposure arises
 PROC8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
 PROC9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

Product Name XIAMETER PMX 200 SILICONE FLUID 0.65 cSt
Sector(s) of use SU3 - Industrial uses: Uses of substances as such or in preparations at industrial sites SU8 - Manufacture of bulk, large scale chemicals (including petroleum products) SU9 - Manufacture of fine chemicals SU10 - Formulation [mixing] of preparations and/or re-packaging (excluding alloys)

Section 2 - Operational conditions and risk management measures

Section 2.1 - Control of environmental exposure

Environmental release category(ies) - ERC1 - Manufacture of substances
 - ERC6a - Industrial use resulting in manufacture of another substance (use of intermediates)
 - ERC6c - Industrial use of monomers for manufacture of thermoplastics

Covers concentrations up to 100%
Amounts used

Type	Annual amount per site
Value	<= 3500
Units	t(ons)/year
Remarks	Continuous release

Other operational conditions of use affecting environmental exposure

Emission days	350
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Conditions and measures related to municipal sewage treatment plant

Type	Municipal STP
Assumed domestic sewage treatment plant flow	3100 m3/d
Sludge treatment	Can be landfilled or incinerated, when in compliance with local regulations
Remarks	Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination

Type	Onsite STP
Assumed domestic sewage treatment plant flow	3100 m3/d
Sludge treatment	Can be landfilled or incinerated, when in compliance with local regulations
Remarks	Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination

Environmental factors not influenced by risk management

Receiving water dilution (fresh or marine)	3100000 m3/d
Local freshwater dilution factor	900
Local marine water dilution factor	1000

Risk management measures

Technical onsite conditions and measures to reduce or limit discharges, air emissions	Upgrade of the system in place or additional air treatment measures, such as wet scrubber and/or air filtration and/or thermal oxidation and/or vapour recovery systems, in order to achieve a reduction of the air emissions No discharge of substance into waste water
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Control measures to prevent releases

Air	Typical measures to maintain workplace concentrations of airborne VOCs and particulates below respective OELs: e.g. thermal wet scrubber - gas removal and/or air filtration - particle removal and/or thermal oxidation and/or vapour recovery - adsorption
Water	Acclimated biological treatment

Conditions and measures related to external treatment of waste for disposal

Disposal	Dispose of waste product or used containers according to local regulations
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Control of worker exposure

Process category(ies)	PROC1 - Use in closed process, no likelihood of exposure
Covers concentrations up to	100%
Physical form of product	Liquid
Vapour pressure	5500 Pa
Amounts used	10000 kg/d
Exposure duration	Avoid carrying out operation for more than 1 hour
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). 1 uses per day
Technical conditions and measures to control dispersion from source towards the worker	Drain down and flush system prior to equipment break-in or maintenance Use of closed transfers of liquids from storage to production equipment (e.g. metered piped or pumped additions) Avoid accumulating electrostatic charge Use dry break couplings for material transfer Handle within a fume cupboard or implement suitable equivalent methods to minimise exposure Use engineering controls to keep exposures below the OEL or DNEL Ensure procedures and training for emergency decontamination and disposal are in place Local exhaust ventilation - efficiency of at least 0%
Conditions and measures related to personal protection, hygiene and health evaluation	Wear a full face respirator conforming to EN 136 with Type A filter or better Wear suitable face shield Wear suitable gloves (tested to EN 374), coverall and eye protection

	Chemical resistant apron Prolonged or repeated exposure increases the risk Wear positive pressure self-contained breathing apparatus (SCBA)
Organisational measures to prevent /limit releases, dispersion and exposure	Supervision in place to check that the RMMs in place are being used correctly and OCs followed Permit to work for maintenance work Clean equipment and the work area every day Ensure operatives are trained to minimise exposures Locate bulk storage outdoors Ensure containment of the emission source
Indoor/Outdoor use	Indoor
Assumes process temperature up to	25 C

Process category(ies)	PROC2 - Use in closed, continuous process with occasional controlled exposure
Covers concentrations up to	100%
Physical form of product	Liquid
Vapour pressure	5500 Pa
Amounts used	10000 kg/d
Exposure duration	Avoid carrying out operation for more than 1 hour
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). 1 uses per day
Technical conditions and measures to control dispersion from source towards the worker	Drain down and flush system prior to equipment break-in or maintenance Use of closed transfers of liquids from storage to production equipment (e.g. metered piped or pumped additions) Avoid accumulating electrostatic charge Use dry break couplings for material transfer Handle within a fume cupboard or implement suitable equivalent methods to minimise exposure Use engineering controls to keep exposures below the OEL or DNEL Ensure procedures and training for emergency decontamination and disposal are in place Local exhaust ventilation - efficiency of at least 90%
Conditions and measures related to personal protection, hygiene and health evaluation	Wear a full face respirator conforming to EN 136 with Type A filter or better Wear suitable face shield Wear suitable gloves (tested to EN 374), coverall and eye protection Chemical resistant apron Prolonged or repeated exposure increases the risk Wear positive pressure self-contained breathing apparatus (SCBA)
Organisational measures to prevent /limit releases, dispersion and exposure	Supervision in place to check that the RMMs in place are being used correctly and OCs followed Permit to work for maintenance work Clean equipment and the work area every day Ensure operatives are trained to minimise exposures Locate bulk storage outdoors Ensure containment of the emission source
Indoor/Outdoor use	Indoor
Assumes process temperature up to	25 C

Process category(ies)	PROC3 - Use in closed batch process (synthesis or formulation)
Covers concentrations up to	100%
Physical form of product	Liquid
Vapour pressure	5500 Pa
Amounts used	10000 kg/d
Exposure duration	Avoid carrying out operation for more than 1 hour
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). 1 uses per day
Technical conditions and measures to control dispersion from source towards the worker	Drain down and flush system prior to equipment break-in or maintenance Use of closed transfers of liquids from storage to production equipment (e.g. metered piped or pumped additions)

	Avoid accumulating electrostatic charge Use dry break couplings for material transfer Handle within a fume cupboard or implement suitable equivalent methods to minimise exposure Use engineering controls to keep exposures below the OEL or DNEL Ensure procedures and training for emergency decontamination and disposal are in place Local exhaust ventilation - efficiency of at least 90%
Conditions and measures related to personal protection, hygiene and health evaluation	Wear a full face respirator conforming to EN 136 with Type A filter or better Wear suitable face shield Wear suitable gloves (tested to EN 374), coverall and eye protection Chemical resistant apron Prolonged or repeated exposure increases the risk Wear positive pressure self-contained breathing apparatus (SCBA)
Organisational measures to prevent /limit releases, dispersion and exposure	Supervision in place to check that the RMMs in place are being used correctly and OCs followed Permit to work for maintenance work Clean equipment and the work area every day Ensure operatives are trained to minimise exposures Locate bulk storage outdoors Ensure containment of the emission source
Indoor/Outdoor use	Indoor
Assumes process temperature up to	25 C

Process category(ies)	PROC4 - Use in batch and other process (synthesis) where opportunity for exposure arises
Covers concentrations up to	100%
Physical form of product	Liquid
Vapour pressure	5500 Pa
Amounts used	10000 kg/d
Exposure duration	Avoid carrying out operation for more than 1 hour
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). 1 uses per day
Technical conditions and measures to control dispersion from source towards the worker	Drain down and flush system prior to equipment break-in or maintenance Use of closed transfers of liquids from storage to production equipment (e.g. metered piped or pumped additions) Avoid accumulating electrostatic charge Use dry break couplings for material transfer Handle within a fume cupboard or implement suitable equivalent methods to minimise exposure Use engineering controls to keep exposures below the OEL or DNEL Ensure procedures and training for emergency decontamination and disposal are in place Local exhaust ventilation - efficiency of at least 90%
Conditions and measures related to personal protection, hygiene and health evaluation	Wear a full face respirator conforming to EN 136 with Type A filter or better Wear suitable face shield Wear suitable gloves (tested to EN 374), coverall and eye protection Chemical resistant apron Prolonged or repeated exposure increases the risk Wear positive pressure self-contained breathing apparatus (SCBA)
Organisational measures to prevent /limit releases, dispersion and exposure	Supervision in place to check that the RMMs in place are being used correctly and OCs followed Permit to work for maintenance work Clean equipment and the work area every day Ensure operatives are trained to minimise exposures Locate bulk storage outdoors Ensure containment of the emission source
Indoor/Outdoor use	Indoor
Assumes process temperature up to	25 C

Process category(ies)	PROC8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
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Covers concentrations up to	100%
Physical form of product	Liquid
Vapour pressure	5500 Pa
Amounts used	10000 kg/d
Exposure duration	Avoid carrying out operation for more than 15 minutes
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). 5 uses per day
Technical conditions and measures to control dispersion from source towards the worker	Drain down and flush system prior to equipment break-in or maintenance Use of closed transfers of liquids from storage to production equipment (e.g. metered piped or pumped additions) Avoid accumulating electrostatic charge Use dry break couplings for material transfer Handle within a fume cupboard or implement suitable equivalent methods to minimise exposure Use engineering controls to keep exposures below the OEL or DNEL Ensure procedures and training for emergency decontamination and disposal are in place Local exhaust ventilation - efficiency of at least 95%
Conditions and measures related to personal protection, hygiene and health evaluation	Wear a full face respirator conforming to EN 136 with Type A filter or better Wear suitable face shield Wear suitable gloves (tested to EN 374), coverall and eye protection Chemical resistant apron Prolonged or repeated exposure increases the risk Wear positive pressure self-contained breathing apparatus (SCBA)
Organisational measures to prevent /limit releases, dispersion and exposure	Supervision in place to check that the RMMs in place are being used correctly and OCs followed Permit to work for maintenance work Clean equipment and the work area every day Ensure operatives are trained to minimise exposures Locate bulk storage outdoors Ensure containment of the emission source
Indoor/Outdoor use	Indoor
Assumes process temperature up to	25 C

Process category(ies)	PROC9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
Covers concentrations up to	100%
Physical form of product	Liquid
Vapour pressure	5500 Pa
Amounts used	10000 kg/d
Exposure duration	Avoid carrying out operation for more than 15 minutes
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). 5 uses per day
Technical conditions and measures to control dispersion from source towards the worker	Drain down and flush system prior to equipment break-in or maintenance Use of closed transfers of liquids from storage to production equipment (e.g. metered piped or pumped additions) Avoid accumulating electrostatic charge Use dry break couplings for material transfer Handle within a fume cupboard or implement suitable equivalent methods to minimise exposure Use engineering controls to keep exposures below the OEL or DNEL Ensure procedures and training for emergency decontamination and disposal are in place Local exhaust ventilation - efficiency of at least 90%
Conditions and measures related to personal protection, hygiene and health evaluation	Wear a full face respirator conforming to EN 136 with Type A filter or better Wear suitable face shield Wear suitable gloves (tested to EN 374), coverall and eye protection Chemical resistant apron Prolonged or repeated exposure increases the risk Wear positive pressure self-contained breathing apparatus (SCBA)
Organisational measures to prevent	Supervision in place to check that the RMMs in place are being used correctly and OCs

limit releases, dispersion and exposure	followed Permit to work for maintenance work Clean equipment and the work area every day Ensure operatives are trained to minimise exposures Locate bulk storage outdoors Ensure containment of the emission source
Indoor/Outdoor use	Indoor
Assumes process temperature up to	25 C

Section 3 - Exposure estimation

Environmental release category(ies) - ERC1 - Manufacture of substances

- ERC6a - Industrial use resulting in manufacture of another substance (use of intermediates)

- ERC6c - Industrial use of monomers for manufacture of thermoplastics

Predicted No Effect Concentration (PNEC)

Freshwater	0.002 mg/l
Freshwater sediment	8.9 mg/kg d.w.
Marine water	0 mg/l
Marine sediment	0.890 mg/kg d.w.
Soil	0.083 mg/kg d.w.
Impact on Sewage Treatment	10 mg/l
Intermittent release	0.003 mg/l

Calculation method Used EUSES model

Environment	predicted exposure level	Risk characterisation ratio (RCR)
Freshwater	0.0000013 mg/l	< 0.001
Marine water	0.0000007 mg/l	0.003
Freshwater sediment	0.000029 mg/kg w.w.	< 0.001
Marine sediment	0.000015 mg/kg w.w.	< 0.001
Soil	0.0003 mg/kg w.w.	0.041

Derived No Effect Level (DNEL):

Worker - dermal, long-term - systemic	333 mg/kg bw/d
Worker - inhalative, long-term - systemic	53.4 mg/m ³
Consumer - oral, long-term - systemic	0.27 mg/kg bw/d
Consumer - dermal, long-term - systemic	167 mg/kg bw/d
Consumer - inhalative, long-term - systemic	13.3 mg/m ³

Calculation method Used ECETOC TRA model

Process category(ies)	Exposure route	predicted exposure level	Risk characterisation ratio (RCR)
PROC1 - Use in closed process, no likelihood of exposure	Worker - dermal, long-term - systemic	0.007 mg/kg bw/d	< 0.001
PROC1 - Use in closed process, no likelihood of exposure	Worker - inhalative, long-term - systemic	0.014 mg/m ³	< 0.001
PROC2 - Use in closed, continuous process with occasional controlled exposure	Worker - dermal, long-term - systemic	0.027 mg/kg bw/d	< 0.001
PROC2 - Use in closed, continuous process with occasional controlled exposure	Worker - inhalative, long-term - systemic	0.68 mg/m ³	0.013
PROC3 - Use in closed batch process	Worker - dermal, long-term -	0.014 mg/kg bw/d	< 0.001

(synthesis or formulation)	systemic		
PROC3 - Use in closed batch process (synthesis or formulation)	Worker - inhalative, long-term - systemic	1.4 mg/m ³	0.025
PROC4 - Use in batch and other process (synthesis) where opportunity for exposure arises	Worker - dermal, long-term - systemic	0.14 mg/kg bw/d	< 0.001
PROC4 - Use in batch and other process (synthesis) where opportunity for exposure arises	Worker - inhalative, long-term - systemic	2.7 mg/m ³	0.051
PROC8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities	Worker - dermal, long-term - systemic	0.069 mg/kg bw/d	< 0.001
PROC8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities	Worker - inhalative, long-term - systemic	0.85 mg/m ³	0.016
PROC9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing)	Worker - dermal, long-term - systemic	0.069 mg/kg bw/d	< 0.001
PROC9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing)	Worker - inhalative, long-term - systemic	3.4 mg/m ³	0.063

Section 4 - Guidance to check compliance with the exposure scenario

ECHA guidance for downstream users. Further information on the assumptions contained in this exposure scenario can be found at. http://guidance.echa.europa.eu/guidance_en.htm.

Annex to the Safety Data Sheet according to Regulation (EC) No 1907/2006 [REACH]

Product Name XIAMETER PMX 200 SILICONE FLUID 0.65 cSt
Chemical name HEXAMETHYLDISILOXANE
Pure substance/mixture Substance
REACH registration number 01-2119496108-31-XXXX
CAS No 107-46-0
EC No (EU Index No) 203-492-7
Supplier Univar Solutions UK Ltd
 Aquarius House
 6 Mid Point Business Park
 Bradford
 GBR

Non-Emergency Telephone Number +44 1274 267300 / +44 1274 267306

E-mail address SDS.EMEA@univarsolutions.com

Section 1 - Title

Title Used as an end-blocker in the production of silicone polymers and resins.
Type Worker
Main user group Industrial uses: Uses of substances as such or in preparations at industrial sites
Environmental release category(ies) ERC6c - Industrial use of monomers for manufacture of thermoplastics
Process category(ies) PROC1 - Use in closed process, no likelihood of exposure
 PROC2 - Use in closed, continuous process with occasional controlled exposure
 PROC3 - Use in closed batch process (synthesis or formulation)
 PROC8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities

Product category(ies) PC19 - Intermediate
Product Name XIAMETER PMX 200 SILICONE FLUID 0.65 cSt
Sector(s) of use SU3 - Industrial uses: Uses of substances as such or in preparations at industrial sites SU8 - Manufacture of bulk, large scale chemicals (including petroleum products) SU9 - Manufacture of fine chemicals

Section 2 - Operational conditions and risk management measures

Section 2.1 - Control of environmental exposure

Environmental release category(ies) - ERC6c - Industrial use of monomers for manufacture of thermoplastics

Covers concentrations up to 100%

Amounts used

Remarks	Continuous release
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Conditions and measures related to municipal sewage treatment plant

Type	Municipal STP
Assumed domestic sewage treatment plant flow	10000 m3/d
Sludge treatment	Can be landfilled or incinerated, when in compliance with local regulations
Remarks	Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination

Type	Onsite STP
Assumed domestic sewage treatment plant flow	10000 m3/d
Sludge treatment	Can be landfilled or incinerated, when in compliance with local regulations
Remarks	Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination

Environmental factors not influenced by risk management

Receiving water dilution (fresh or marine)	400000 m3/d
Local freshwater dilution factor	40

Risk management measures

Technical onsite conditions and measures to reduce or limit discharges, air emissions	Upgrade of the system in place or additional air treatment measures, such as wet scrubber and/or air filtration and/or thermal oxidation and/or vapour recovery systems, in order to achieve a reduction of the air emissions No discharge of substance into waste water
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Control measures to prevent releases

Air	Typical measures to maintain workplace concentrations of airborne VOCs and particulates below respective OELs: e.g. thermal wet scrubber - gas removal and/or air filtration - particle removal and/or thermal oxidation and/or vapour recovery - adsorption
Water	Acclimated biological treatment

Conditions and measures related to external treatment of waste for disposal

Disposal	Dispose of waste product or used containers according to local regulations
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Control of worker exposure

Process category(ies)	PROC1 - Use in closed process, no likelihood of exposure
Covers concentrations up to	100%
Physical form of product	Liquid
Vapour pressure	5500 Pa
Exposure duration	Avoid carrying out operation for more than 1 hour
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). 1 uses per day
Technical conditions and measures to control dispersion from source towards the worker	Drain down and flush system prior to equipment break-in or maintenance Use of closed transfers of liquids from storage to production equipment (e.g. metered piped or pumped additions) Avoid accumulating electrostatic charge Use dry break couplings for material transfer Handle within a fume cupboard or implement suitable equivalent methods to minimise exposure Use engineering controls to keep exposures below the OEL or DNEL Ensure procedures and training for emergency decontamination and disposal are in place Local exhaust ventilation - efficiency of at least 0%
Conditions and measures related to personal protection, hygiene and health evaluation	Wear a full face respirator conforming to EN 136 with Type A filter or better Wear suitable face shield Wear suitable gloves (tested to EN 374), coverall and eye protection Chemical resistant apron Prolonged or repeated exposure increases the risk Wear positive pressure self-contained breathing apparatus (SCBA)
Organisational measures to prevent /limit releases, dispersion and exposure	Supervision in place to check that the RMMs in place are being used correctly and OCs followed Permit to work for maintenance work Clean equipment and the work area every day Ensure operatives are trained to minimise exposures Locate bulk storage outdoors Ensure containment of the emission source
Indoor/Outdoor use	Indoor
Assumes process temperature up to	25 C

Process category(ies)	PROC2 - Use in closed, continuous process with occasional controlled exposure
Covers concentrations up to	100%
Physical form of product	Liquid
Vapour pressure	5500 Pa
Exposure duration	Avoid carrying out operation for more than 1 hour
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). 1 uses per day
Technical conditions and measures to control dispersion from source towards the worker	Drain down and flush system prior to equipment break-in or maintenance Use of closed transfers of liquids from storage to production equipment (e.g. metered piped or pumped additions) Avoid accumulating electrostatic charge Use dry break couplings for material transfer Handle within a fume cupboard or implement suitable equivalent methods to minimise exposure Use engineering controls to keep exposures below the OEL or DNEL Ensure procedures and training for emergency decontamination and disposal are in place Local exhaust ventilation - efficiency of at least 90%
Conditions and measures related to personal protection, hygiene and health evaluation	Wear a full face respirator conforming to EN 136 with Type A filter or better Wear suitable face shield Wear suitable gloves (tested to EN 374), coverall and eye protection Chemical resistant apron Prolonged or repeated exposure increases the risk Wear positive pressure self-contained breathing apparatus (SCBA)
Organisational measures to prevent /limit releases, dispersion and exposure	Supervision in place to check that the RMMs in place are being used correctly and OCs followed Permit to work for maintenance work Clean equipment and the work area every day Ensure operatives are trained to minimise exposures Locate bulk storage outdoors Ensure containment of the emission source
Indoor/Outdoor use	Indoor
Assumes process temperature up to	25 C

Process category(ies)	PROC3 - Use in closed batch process (synthesis or formulation)
Covers concentrations up to	100%
Physical form of product	Liquid
Vapour pressure	5500 Pa
Exposure duration	Avoid carrying out operation for more than 1 hour
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). 1 uses per day
Technical conditions and measures to control dispersion from source towards the worker	Drain down and flush system prior to equipment break-in or maintenance Use of closed transfers of liquids from storage to production equipment (e.g. metered piped or pumped additions) Avoid accumulating electrostatic charge Use dry break couplings for material transfer Handle within a fume cupboard or implement suitable equivalent methods to minimise exposure Use engineering controls to keep exposures below the OEL or DNEL Ensure procedures and training for emergency decontamination and disposal are in place Local exhaust ventilation - efficiency of at least 90%
Conditions and measures related to personal protection, hygiene and health evaluation	Wear a full face respirator conforming to EN 136 with Type A filter or better Wear suitable face shield Wear suitable gloves (tested to EN 374), coverall and eye protection Chemical resistant apron Prolonged or repeated exposure increases the risk Wear positive pressure self-contained breathing apparatus (SCBA)
Organisational measures to prevent	Supervision in place to check that the RMMs in place are being used correctly and OCs

/limit releases, dispersion and exposure	followed Permit to work for maintenance work Clean equipment and the work area every day Ensure operatives are trained to minimise exposures Locate bulk storage outdoors Ensure containment of the emission source
Indoor/Outdoor use	Indoor
Assumes process temperature up to	25 C

Process category(ies)	PROC8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
Covers concentrations up to	100%
Physical form of product	Liquid
Vapour pressure	5500 Pa
Exposure duration	Avoid carrying out operation for more than 15 minutes
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). 1 uses per day
Technical conditions and measures to control dispersion from source towards the worker	Drain down and flush system prior to equipment break-in or maintenance Use of closed transfers of liquids from storage to production equipment (e.g. metered piped or pumped additions) Avoid accumulating electrostatic charge Use dry break couplings for material transfer Handle within a fume cupboard or implement suitable equivalent methods to minimise exposure Use engineering controls to keep exposures below the OEL or DNEL Ensure procedures and training for emergency decontamination and disposal are in place Local exhaust ventilation - efficiency of at least 95%
Conditions and measures related to personal protection, hygiene and health evaluation	Wear a full face respirator conforming to EN 136 with Type A filter or better Wear suitable face shield Wear suitable gloves (tested to EN 374), coverall and eye protection Chemical resistant apron Prolonged or repeated exposure increases the risk Wear positive pressure self-contained breathing apparatus (SCBA)
Organisational measures to prevent /limit releases, dispersion and exposure	Supervision in place to check that the RMMs in place are being used correctly and OCs followed Permit to work for maintenance work Clean equipment and the work area every day Ensure operatives are trained to minimise exposures Locate bulk storage outdoors Ensure containment of the emission source
Indoor/Outdoor use	Indoor
Assumes process temperature up to	25 C

Section 3 - Exposure estimation

Environmental release category(ies) - ERC6c - Industrial use of monomers for manufacture of thermoplastics

Predicted No Effect Concentration (PNEC)

Freshwater	0.002 mg/l
Freshwater sediment	8.9 mg/kg d.w.
Marine water	0 mg/l
Marine sediment	0.890 mg/kg d.w.

Soil 0.083 mg/kg d.w.
Impact on Sewage Treatment 10 mg/l
Intermittent release 0.003 mg/l

Calculation method Used EUSES model

Environment	predicted exposure level	Risk characterisation ratio (RCR)
Freshwater	0.000012 mg/l	0.006
Marine water	0.0000047 mg/l	0.024
Freshwater sediment	0.00028 mg/kg w.w.	< 0.001
Marine sediment	0.00011 mg/kg w.w.	0.001
Soil	0.00022 mg/kg w.w.	0.031

Derived No Effect Level (DNEL):

Worker - dermal, long-term - systemic 333 mg/kg bw/d
Worker - inhalative, long-term - systemic 53.4 mg/m³
Consumer - oral, long-term - systemic 0.27 mg/kg bw/d
Consumer - dermal, long-term - systemic 167 mg/kg bw/d
Consumer - inhalative, long-term - systemic 13.3 mg/m³

Calculation method Used ECETOC TRA model

Process category(ies)	Exposure route	predicted exposure level	Risk characterisation ratio (RCR)
PROC1 - Use in closed process, no likelihood of exposure	Worker - dermal, long-term - systemic	0.007 mg/kg bw/d	< 0.001
PROC1 - Use in closed process, no likelihood of exposure	Worker - inhalative, long-term - systemic	0.014 mg/m ³	< 0.001
PROC2 - Use in closed, continuous process with occasional controlled exposure	Worker - dermal, long-term - systemic	0.027 mg/kg bw/d	< 0.001
PROC2 - Use in closed, continuous process with occasional controlled exposure	Worker - inhalative, long-term - systemic	0.68 mg/m ³	0.013
PROC3 - Use in closed batch process (synthesis or formulation)	Worker - dermal, long-term - systemic	0.014 mg/kg bw/d	< 0.001
PROC3 - Use in closed batch process (synthesis or formulation)	Worker - inhalative, long-term - systemic	1.4 mg/m ³	0.025
PROC8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities	Worker - dermal, long-term - systemic	0.069 mg/kg bw/d	< 0.001
PROC8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities	Worker - inhalative, long-term - systemic	0.85 mg/m ³	0.016

Section 4 - Guidance to check compliance with the exposure scenario

ECHA guidance for downstream users. Further information on the assumptions contained in this exposure scenario can be found at: http://guidance.echa.europa.eu/guidance_en.htm.

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required.

Annex to the Safety Data Sheet according to Regulation (EC) No 1907/2006 [REACH]

Product Name XIAMETER PMX 200 SILICONE FLUID 0.65 cSt
Chemical name HEXAMETHYLDISILOXANE
Pure substance/mixture Substance
REACH registration number 01-2119496108-31-XXXX
CAS No 107-46-0
EC No (EU Index No) 203-492-7
Supplier Univar Solutions UK Ltd
 Aquarius House
 6 Mid Point Business Park
 Bradford
 GBR

Non-Emergency Telephone Number +44 1274 267300 / +44 1274 267306

E-mail address SDS.EMEA@univarsolutions.com

Section 1 - Title

Title Use as an intermediate
Type Worker
Main user group Industrial uses: Uses of substances as such or in preparations at industrial sites
Environmental release category(ies) ERC6a - Industrial use resulting in manufacture of another substance (use of intermediates)
Process category(ies) PROC1 - Use in closed process, no likelihood of exposure
 PROC2 - Use in closed, continuous process with occasional controlled exposure
 PROC3 - Use in closed batch process (synthesis or formulation)
 PROC4 - Use in batch and other process (synthesis) where opportunity for exposure arises
 PROC8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
 PROC9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
Product category(ies) PC19 - Intermediate
Product Name XIAMETER PMX 200 SILICONE FLUID 0.65 cSt
Sector(s) of use SU3 - Industrial uses: Uses of substances as such or in preparations at industrial sites SU8 - Manufacture of bulk, large scale chemicals (including petroleum products) SU9 - Manufacture of fine chemicals SU10 - Formulation [mixing] of preparations and/or re-packaging (excluding alloys)

Section 2 - Operational conditions and risk management measures

Section 2.1 - Control of environmental exposure

Environmental release category(ies) - ERC6a - Industrial use resulting in manufacture of another substance (use of intermediates)

Covers concentrations up to 100%
Amounts used

Type	Annual amount per site
Value	200
Units	t(ons)/year
Remarks	Continuous release

Other operational conditions of use affecting environmental exposure

Emission days	200
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Conditions and measures related to municipal sewage treatment plant

Type	Municipal STP
Assumed domestic sewage treatment	10000 m3/d

plant flow	
Sludge treatment	Can be landfilled or incinerated, when in compliance with local regulations
Remarks	Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination

Type	Onsite STP
Assumed domestic sewage treatment plant flow	10000 m3/d
Sludge treatment	Can be landfilled or incinerated, when in compliance with local regulations
Remarks	Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination

Environmental factors not influenced by risk management

Receiving water dilution (fresh or marine)	400000 m3/d
Local freshwater dilution factor	40

Risk management measures

Technical onsite conditions and measures to reduce or limit discharges, air emissions	Upgrade of the system in place or additional air treatment measures, such as wet scrubber and/or air filtration and/or thermal oxidation and/or vapour recovery systems, in order to achieve a reduction of the air emissions No discharge of substance into waste water
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Control measures to prevent releases

Air	Typical measures to maintain workplace concentrations of airborne VOCs and particulates below respective OELs: e.g. thermal wet scrubber - gas removal and/or air filtration - particle removal and/or thermal oxidation and/or vapour recovery - adsorption
Water	Acclimated biological treatment

Conditions and measures related to external treatment of waste for disposal

Disposal	Dispose of waste product or used containers according to local regulations
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Control of worker exposure	
Process category(ies)	PROC1 - Use in closed process, no likelihood of exposure
Covers concentrations up to	100%
Physical form of product	Liquid
Vapour pressure	5500 Pa
Amounts used	1000 kg/d
Exposure duration	Avoid carrying out operation for more than 1 hour
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). 1 uses per day
Technical conditions and measures to control dispersion from source towards the worker	Drain down and flush system prior to equipment break-in or maintenance Avoid accumulating electrostatic charge Handle within a fume cupboard or implement suitable equivalent methods to minimise exposure Ensure procedures and training for emergency decontamination and disposal are in place Local exhaust ventilation - efficiency of at least 0%
Conditions and measures related to personal protection, hygiene and health evaluation	Use suitable eye protection Chemical resistant apron Prolonged or repeated exposure increases the risk Wear a respirator conforming to EN 140 with Type A filter or better Provide a basic standard of general ventilation (1 to 3 air changes per hour)
Organisational measures to prevent /limit releases, dispersion and exposure	Supervision in place to check that the RMMs in place are being used correctly and OCs followed Clean equipment and the work area every day Ensure operatives are trained to minimise exposures

	Locate bulk storage outdoors Ensure containment of the emission source
Indoor/Outdoor use	Indoor
Assumes process temperature up to	25 C

Process category(ies)	PROC2 - Use in closed, continuous process with occasional controlled exposure
Covers concentrations up to	100%
Physical form of product	Liquid
Vapour pressure	5500 Pa
Amounts used	1000 kg/d
Exposure duration	Avoid carrying out operation for more than 1 hour
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). 1 uses per day
Technical conditions and measures to control dispersion from source towards the worker	Drain down and flush system prior to equipment break-in or maintenance Avoid accumulating electrostatic charge Handle within a fume cupboard or implement suitable equivalent methods to minimise exposure Ensure procedures and training for emergency decontamination and disposal are in place Local exhaust ventilation - efficiency of at least 90%
Conditions and measures related to personal protection, hygiene and health evaluation	Use suitable eye protection Chemical resistant apron Prolonged or repeated exposure increases the risk Wear a respirator conforming to EN 140 with Type A filter or better Provide a basic standard of general ventilation (1 to 3 air changes per hour)
Organisational measures to prevent /limit releases, dispersion and exposure	Supervision in place to check that the RMMs in place are being used correctly and OCs followed Clean equipment and the work area every day Ensure operatives are trained to minimise exposures Locate bulk storage outdoors Ensure containment of the emission source
Indoor/Outdoor use	Indoor
Assumes process temperature up to	25 C

Process category(ies)	PROC3 - Use in closed batch process (synthesis or formulation)
Covers concentrations up to	100%
Physical form of product	Liquid
Vapour pressure	5500 Pa
Amounts used	1000 kg/d
Exposure duration	Avoid carrying out operation for more than 1 hour
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). 1 uses per day
Technical conditions and measures to control dispersion from source towards the worker	Drain down and flush system prior to equipment break-in or maintenance Avoid accumulating electrostatic charge Handle within a fume cupboard or implement suitable equivalent methods to minimise exposure Ensure procedures and training for emergency decontamination and disposal are in place Local exhaust ventilation - efficiency of at least 90%
Conditions and measures related to personal protection, hygiene and health evaluation	Use suitable eye protection Chemical resistant apron Prolonged or repeated exposure increases the risk Wear a respirator conforming to EN 140 with Type A filter or better Provide a basic standard of general ventilation (1 to 3 air changes per hour)
Organisational measures to prevent /limit releases, dispersion and exposure	Supervision in place to check that the RMMs in place are being used correctly and OCs followed Clean equipment and the work area every day Ensure operatives are trained to minimise exposures Locate bulk storage outdoors

	Ensure containment of the emission source
Indoor/Outdoor use	Indoor
Assumes process temperature up to	25 C

Process category(ies)	PROC4 - Use in batch and other process (synthesis) where opportunity for exposure arises
Covers concentrations up to	100%
Physical form of product	Liquid
Vapour pressure	5500 Pa
Amounts used	1000 kg/d
Exposure duration	Avoid carrying out operation for more than 1 hour
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). 1 uses per day
Technical conditions and measures to control dispersion from source towards the worker	Drain down and flush system prior to equipment break-in or maintenance Avoid accumulating electrostatic charge Handle within a fume cupboard or implement suitable equivalent methods to minimise exposure Ensure procedures and training for emergency decontamination and disposal are in place
Conditions and measures related to personal protection, hygiene and health evaluation	Use suitable eye protection Chemical resistant apron Prolonged or repeated exposure increases the risk Wear a respirator conforming to EN 140 with Type A filter or better Provide a basic standard of general ventilation (1 to 3 air changes per hour)
Organisational measures to prevent /limit releases, dispersion and exposure	Supervision in place to check that the RMMs in place are being used correctly and OCs followed Clean equipment and the work area every day Ensure operatives are trained to minimise exposures Locate bulk storage outdoors Ensure containment of the emission source
Indoor/Outdoor use	Indoor
Assumes process temperature up to	25 C

Process category(ies)	PROC8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
Covers concentrations up to	100%
Physical form of product	Liquid
Vapour pressure	5500 Pa
Amounts used	1000 kg/d
Exposure duration	Avoid carrying out activities involving exposure for more than 15 minutes
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). 1 uses per day
Technical conditions and measures to control dispersion from source towards the worker	Drain down and flush system prior to equipment break-in or maintenance Avoid accumulating electrostatic charge Handle within a fume cupboard or implement suitable equivalent methods to minimise exposure Local exhaust ventilation - efficiency of at least 95% Ensure procedures and training for emergency decontamination and disposal are in place
Conditions and measures related to personal protection, hygiene and health evaluation	Use suitable eye protection Chemical resistant apron Prolonged or repeated exposure increases the risk Wear a respirator conforming to EN 140 with Type A filter or better Provide a basic standard of general ventilation (1 to 3 air changes per hour)
Organisational measures to prevent /limit releases, dispersion and exposure	Supervision in place to check that the RMMs in place are being used correctly and OCs followed Clean equipment and the work area every day Ensure operatives are trained to minimise exposures Locate bulk storage outdoors Ensure containment of the emission source

Indoor/Outdoor use	Indoor
Assumes process temperature up to	25 C
Process category(ies)	PROC9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
Covers concentrations up to	100%
Physical form of product	Liquid
Vapour pressure	5500 Pa
Amounts used	1000 kg/d
Exposure duration	Avoid carrying out operation for more than 1 hour
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). 1 uses per day
Technical conditions and measures to control dispersion from source towards the worker	Drain down and flush system prior to equipment break-in or maintenance Avoid accumulating electrostatic charge Handle within a fume cupboard or implement suitable equivalent methods to minimise exposure Local exhaust ventilation - efficiency of at least 90% Ensure procedures and training for emergency decontamination and disposal are in place
Conditions and measures related to personal protection, hygiene and health evaluation	Use suitable eye protection Chemical resistant apron Prolonged or repeated exposure increases the risk Wear a respirator conforming to EN 140 with Type A filter or better Provide a basic standard of general ventilation (1 to 3 air changes per hour)
Organisational measures to prevent /limit releases, dispersion and exposure	Supervision in place to check that the RMMs in place are being used correctly and OCs followed Clean equipment and the work area every day Ensure operatives are trained to minimise exposures Locate bulk storage outdoors Ensure containment of the emission source
Indoor/Outdoor use	Indoor
Assumes process temperature up to	25 C

Section 3 - Exposure estimation

Environmental release category(ies) - ERC6a - Industrial use resulting in manufacture of another substance (use of intermediates)

Predicted No Effect Concentration (PNEC)

Freshwater	0.002 mg/l
Freshwater sediment	8.9 mg/kg d.w.
Marine water	0 mg/l
Marine sediment	0.890 mg/kg d.w.
Soil	0.083 mg/kg d.w.
Impact on Sewage Treatment	10 mg/l
Intermittent release	0.003 mg/l

Calculation method Used EUSES model

Environment	predicted exposure level	Risk characterisation ratio (RCR)
Freshwater	0.000012 mg/l	0.006
Marine water	0.0000047 mg/l	0.024
Freshwater sediment	0.00028 mg/kg w.w.	< 0.001
Marine sediment	0.00011 mg/kg w.w.	0.001
Soil	0.00022 mg/kg w.w.	0.031

Derived No Effect Level (DNEL):

Worker - dermal, long-term - systemic	333 mg/kg bw/d
Worker - inhalative, long-term - systemic	53.4 mg/m ³
Consumer - oral, long-term - systemic	0.27 mg/kg bw/d
Consumer - dermal, long-term - systemic	167 mg/kg bw/d
Consumer - inhalative, long-term - systemic	13.3 mg/m ³

Calculation method	Used ECETOC TRA model		
Process category(ies)	Exposure route	predicted exposure level	Risk characterisation ratio (RCR)
PROC1 - Use in closed process, no likelihood of exposure	Worker - dermal, long-term - systemic	0.007 mg/kg bw/d	< 0.001
PROC1 - Use in closed process, no likelihood of exposure	Worker - inhalative, long-term - systemic	0.014 mg/m ³	< 0.001
PROC2 - Use in closed, continuous process with occasional controlled exposure	Worker - dermal, long-term - systemic	0.027 mg/kg bw/d	< 0.001
PROC2 - Use in closed, continuous process with occasional controlled exposure	Worker - inhalative, long-term - systemic	0.68 mg/m ³	0.013
PROC3 - Use in closed batch process (synthesis or formulation)	Worker - dermal, long-term - systemic	0.014 mg/kg bw/d	< 0.001
PROC3 - Use in closed batch process (synthesis or formulation)	Worker - inhalative, long-term - systemic	1.4 mg/m ³	0.025
PROC4 - Use in batch and other process (synthesis) where opportunity for exposure arises	Worker - dermal, long-term - systemic	0.14 mg/kg bw/d	< 0.001
PROC4 - Use in batch and other process (synthesis) where opportunity for exposure arises	Worker - inhalative, long-term - systemic	2.7 mg/m ³	0.051
PROC8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities	Worker - dermal, long-term - systemic	0.069 mg/kg bw/d	< 0.001
PROC8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities	Worker - inhalative, long-term - systemic	0.85 mg/m ³	0.016
PROC9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing)	Worker - dermal, long-term - systemic	0.069 mg/kg bw/d	< 0.001
PROC9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing)	Worker - inhalative, long-term - systemic	3.4 mg/m ³	0.063

Section 4 - Guidance to check compliance with the exposure scenario

ECHA guidance for downstream users. Further information on the assumptions contained in this exposure scenario can be found at: http://guidance.echa.europa.eu/guidance_en.htm.

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required.

Annex to the Safety Data Sheet according to Regulation (EC) No 1907/2006 [REACH]

Product Name XIAMETER PMX 200 SILICONE FLUID 0.65 cSt
Chemical name HEXAMETHYLDISILOXANE
Pure substance/mixture Substance
REACH registration number 01-2119496108-31-XXXX
CAS No 107-46-0
EC No (EU Index No) 203-492-7
Supplier Univar Solutions UK Ltd
 Aquarius House
 6 Mid Point Business Park
 Bradford
 GBR

Non-Emergency Telephone Number +44 1274 267300 / +44 1274 267306

E-mail address SDS.EMEA@univarsolutions.com

Section 1 - Title

Title Use in laboratories
Type Worker
Main user group Industrial uses: Uses of substances as such or in preparations at industrial sites
Process category(ies) PROC15 - Use as laboratory reagent
Product category(ies) PC21 - Laboratory chemicals
Product Name XIAMETER PMX 200 SILICONE FLUID 0.65 cSt
Sector(s) of use SU3 - Industrial uses: Uses of substances as such or in preparations at industrial sites
 SU24 - Scientific research and development

Section 2 - Operational conditions and risk management measures

Section 2.1 - Control of environmental exposure

Covers concentrations up to 100%
Amounts used

Type	Annual amount per site
Value	< 0.005
Units	t(ons)/year

Conditions and measures related to external treatment of waste for disposal

Disposal	Dispose of waste product or used containers according to local regulations
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Control of worker exposure	
Process category(ies)	PROC15 - Use as laboratory reagent
Covers concentrations up to	100%
Physical form of product	Liquid
Vapour pressure	5500 Pa
Amounts used	< 0.01 kg/d
Exposure duration	Avoid carrying out activities involving exposure for more than 15 minutes
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). 1 uses per day
Technical conditions and measures to control dispersion from source towards the worker	Drain down and flush system prior to equipment break-in or maintenance Avoid accumulating electrostatic charge Handle within a fume cupboard or implement suitable equivalent methods to minimise exposure Ensure procedures and training for emergency decontamination and disposal are in place

	Local exhaust ventilation - efficiency of at least 90%
Conditions and measures related to personal protection, hygiene and health evaluation	Use suitable eye protection Chemical resistant apron Prolonged or repeated exposure increases the risk Wear a respirator conforming to EN 140 with Type A filter or better Provide a basic standard of general ventilation (1 to 3 air changes per hour)
Organisational measures to prevent /limit releases, dispersion and exposure	Supervision in place to check that the RMMs in place are being used correctly and OCs followed Clean equipment and the work area every day Ensure operatives are trained to minimise exposures Locate bulk storage outdoors
Indoor/Outdoor use	Indoor
Assumes process temperature up to	25 C

Section 3 - Exposure estimation

Predicted No Effect Concentration (PNEC)

Freshwater	0.002 mg/l
Freshwater sediment	8.9 mg/kg d.w.
Marine water	0 mg/l
Marine sediment	0.890 mg/kg d.w.
Soil	0.083 mg/kg d.w.
Impact on Sewage Treatment	10 mg/l
Intermittent release	0.003 mg/l

Derived No Effect Level (DNEL):

Worker - dermal, long-term - systemic	333 mg/kg bw/d
Worker - inhalative, long-term - systemic	53.4 mg/m ³
Consumer - oral, long-term - systemic	0.27 mg/kg bw/d
Consumer - dermal, long-term - systemic	167 mg/kg bw/d
Consumer - inhalative, long-term - systemic	13.3 mg/m ³

Calculation method Used ECETOC TRA model

Process category(ies)	Exposure route	predicted exposure level	Risk characterisation ratio (RCR)
PROC15 - Use as laboratory reagent	Worker - dermal, long-term - systemic	0.007 mg/kg bw/d	< 0.001
PROC15 - Use as laboratory reagent	Worker - inhalative, long-term - systemic	1.4 mg/m ³	0.026

Section 4 - Guidance to check compliance with the exposure scenario

ECHA guidance for downstream users. Further information on the assumptions contained in this exposure scenario can be found at: http://guidance.echa.europa.eu/guidance_en.htm.

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required.

Annex to the Safety Data Sheet according to Regulation (EC) No 1907/2006 [REACH]

Product Name XIAMETER PMX 200 SILICONE FLUID 0.65 cSt
Chemical name HEXAMETHYLDISILOXANE
Pure substance/mixture Substance
REACH registration number 01-2119496108-31-XXXX
CAS No 107-46-0
EC No (EU Index No) 203-492-7
Supplier Univar Solutions UK Ltd
 Aquarius House
 6 Mid Point Business Park
 Bradford
 GBR

Non-Emergency Telephone Number +44 1274 267300 / +44 1274 267306

E-mail address SDS.EMEA@univarsolutions.com

Section 1 - Title

Title Formulation & (re)packing of substances and mixtures
Type Worker
Main user group Industrial uses: Uses of substances as such or in preparations at industrial sites
Environmental release category(ies) ERC2 - Formulation of preparations (mixtures)
Process category(ies) PROC5 - Mixing or blending in batch processes for formulation of preparations and articles (multi-stage and/or significant contact)
 PROC8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities
 PROC8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
 PROC9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
Product category(ies) PC31 - Polishes and wax blends PC35 - Washing and cleaning products (including solvent based products) PC39 - Cosmetics, personal care products
Product Name XIAMETER PMX 200 SILICONE FLUID 0.65 cSt
Sector(s) of use SU3 - Industrial uses: Uses of substances as such or in preparations at industrial sites
 SU10 - Formulation [mixing] of preparations and/or re-packaging (excluding alloys)

Section 2 - Operational conditions and risk management measures

Section 2.1 - Control of environmental exposure

Environmental release category(ies) - ERC2 - Formulation of preparations (mixtures)

Covers concentrations up to 100%

Amounts used

Type	Annual amount per site
Value	20
Units	t(ons)/year
Remarks	Continuous release

Other operational conditions of use affecting environmental exposure

Emission days	200
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Conditions and measures related to municipal sewage treatment plant

Type	Municipal STP
Assumed domestic sewage treatment plant flow	2000 m3/d
Sludge treatment	Can be landfilled or incinerated, when in compliance with local regulations

Remarks	Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination
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Type	Onsite STP
Assumed domestic sewage treatment plant flow	2000 m3/d
Sludge treatment	Can be landfilled or incinerated, when in compliance with local regulations
Remarks	Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination

Risk management measures

Technical onsite conditions and measures to reduce or limit discharges, air emissions	Upgrade of the system in place or additional air treatment measures, such as wet scrubber and/or air filtration and/or thermal oxidation and/or vapour recovery systems, in order to achieve a reduction of the air emissions No discharge of substance into waste water
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Control measures to prevent releases

Air	Typical measures to maintain workplace concentrations of airborne VOCs and particulates below respective OELs: e.g. thermal wet scrubber - gas removal and/or air filtration - particle removal and/or thermal oxidation and/or vapour recovery - adsorption
Water	Acclimated biological treatment

Conditions and measures related to external treatment of waste for disposal

Disposal	Dispose of waste product or used containers according to local regulations
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Control of worker exposure

Process category(ies)	PROC5 - Mixing or blending in batch processes for formulation of preparations and articles (multi-stage and/or significant contact)
Covers concentrations up to	100%
Physical form of product	Liquid
Vapour pressure	5500 Pa
Amounts used	100 kg/d
Exposure duration	Avoid carrying out operation for more than 1 hour
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). 1 uses per day
Technical conditions and measures to control dispersion from source towards the worker	Drain down and flush system prior to equipment break-in or maintenance Avoid accumulating electrostatic charge Handle within a fume cupboard or implement suitable equivalent methods to minimise exposure Ensure procedures and training for emergency decontamination and disposal are in place Local exhaust ventilation - efficiency of at least 90%
Conditions and measures related to personal protection, hygiene and health evaluation	Use suitable eye protection Chemical resistant apron Prolonged or repeated exposure increases the risk Wear a respirator conforming to EN 140 with Type A filter or better Provide a basic standard of general ventilation (1 to 3 air changes per hour)
Organisational measures to prevent /limit releases, dispersion and exposure	Supervision in place to check that the RMMs in place are being used correctly and OCS followed Clean equipment and the work area every day Ensure operatives are trained to minimise exposures Locate bulk storage outdoors Ensure containment of the emission source
Indoor/Outdoor use	Indoor
Assumes process temperature up to	25 C

Process category(ies)	PROC8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities PROC8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
Covers concentrations up to	100%
Physical form of product	Liquid
Vapour pressure	5500 Pa
Amounts used	100 kg/d
Exposure duration	Avoid carrying out operation for more than 4 hours
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). 1 uses per day
Technical conditions and measures to control dispersion from source towards the worker	Drain down and flush system prior to equipment break-in or maintenance Avoid accumulating electrostatic charge Handle within a fume cupboard or implement suitable equivalent methods to minimise exposure Ensure procedures and training for emergency decontamination and disposal are in place Local exhaust ventilation - efficiency of at least 90%
Conditions and measures related to personal protection, hygiene and health evaluation	Use suitable eye protection Chemical resistant apron Prolonged or repeated exposure increases the risk Wear a respirator conforming to EN 140 with Type A filter or better Provide a basic standard of general ventilation (1 to 3 air changes per hour)
Organisational measures to prevent /limit releases, dispersion and exposure	Supervision in place to check that the RMMs in place are being used correctly and OCs followed Clean equipment and the work area every day Ensure operatives are trained to minimise exposures Locate bulk storage outdoors Ensure containment of the emission source
Indoor/Outdoor use	Indoor
Assumes process temperature up to	25 C

Process category(ies)	PROC9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
Covers concentrations up to	25%
Physical form of product	Liquid
Vapour pressure	5500 Pa
Amounts used	100 kg/d
Exposure duration	Avoid carrying out operation for more than 4 hours
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). 1 uses per day
Technical conditions and measures to control dispersion from source towards the worker	Drain down and flush system prior to equipment break-in or maintenance Avoid accumulating electrostatic charge Handle within a fume cupboard or implement suitable equivalent methods to minimise exposure Ensure procedures and training for emergency decontamination and disposal are in place Local exhaust ventilation - efficiency of at least 90%
Conditions and measures related to personal protection, hygiene and health evaluation	Use suitable eye protection Chemical resistant apron Prolonged or repeated exposure increases the risk Wear a respirator conforming to EN 140 with Type A filter or better Provide a basic standard of general ventilation (1 to 3 air changes per hour)
Organisational measures to prevent /limit releases, dispersion and exposure	Supervision in place to check that the RMMs in place are being used correctly and OCs followed Clean equipment and the work area every day Ensure operatives are trained to minimise exposures Locate bulk storage outdoors Ensure containment of the emission source

Indoor/Outdoor use	Indoor
Assumes process temperature up to	25 C

Section 3 - Exposure estimation

Environmental release category(ies) - ERC2 - Formulation of preparations (mixtures)

Predicted No Effect Concentration (PNEC)

Freshwater	0.002 mg/l
Freshwater sediment	8.9 mg/kg d.w.
Marine water	0 mg/l
Marine sediment	0.890 mg/kg d.w.
Soil	0.083 mg/kg d.w.
Impact on Sewage Treatment	10 mg/l
Intermittent release	0.003 mg/l

Calculation method Used EUSES model

Environment	predicted exposure level	Risk characterisation ratio (RCR)
Freshwater	0.00021 mg/l	0.11
Marine water	0.000021 mg/l	0.11
Freshwater sediment	0.0047 mg/kg w.w.	0.006
Marine sediment	0.00047 mg/kg w.w.	0.006
Soil	0.001 mg/kg w.w.	0.14

Derived No Effect Level (DNEL):

Worker - dermal, long-term - systemic	333 mg/kg bw/d
Worker - inhalative, long-term - systemic	53.4 mg/m ³
Consumer - oral, long-term - systemic	0.27 mg/kg bw/d
Consumer - dermal, long-term - systemic	167 mg/kg bw/d
Consumer - inhalative, long-term - systemic	13.3 mg/m ³

Calculation method Used ECETOC TRA model

Process category(ies)	Exposure route	predicted exposure level	Risk characterisation ratio (RCR)
PROC5 - Mixing or blending in batch processes for formulation of preparations and articles (multi-stage and/or significant contact)	Worker - dermal, long-term - systemic	0.14 mg/kg bw/d	< 0.001
PROC5 - Mixing or blending in batch processes for formulation of preparations and articles (multi-stage and/or significant contact)	Worker - inhalative, long-term - systemic	3.4 mg/m ³	0.063
PROC8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities PROC8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities	Worker - dermal, long-term - systemic	1.4 mg/kg bw/d	0.004
PROC8a - Transfer of substance or	Worker - inhalative, long-term	34 mg/m ³	0.63

preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities PROC8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities	- systemic		
PROC9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing)	Worker - dermal, long-term - systemic	0.41 mg/kg bw/d	0.001
PROC9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing)	Worker - inhalative, long-term - systemic	20 mg/m ³	0.38

Section 4 - Guidance to check compliance with the exposure scenario

ECHA guidance for downstream users. Further information on the assumptions contained in this exposure scenario can be found at. http://guidance.echa.europa.eu/guidance_en.htm.

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required.

Annex to the Safety Data Sheet according to Regulation (EC) No 1907/2006 [REACH]

Product Name	XIAMETER PMX 200 SILICONE FLUID 0.65 cSt
Chemical name	HEXAMETHYLDISILOXANE
Pure substance/mixture	Substance
REACH registration number	01-2119496108-31-XXXX
CAS No	107-46-0
EC No (EU Index No)	203-492-7
Supplier	Univar Solutions UK Ltd Aquarius House 6 Mid Point Business Park Bradford GBR
Non-Emergency Telephone Number	+44 1274 267300 / +44 1274 267306
E-mail address	SDS.EMEA@univarsolutions.com

Section 1 - Title

Title	Cosmetics, personal care products
Type	Worker
Main user group	Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Environmental release category(ies)	ERC8a - Wide dispersive indoor use of processing aids in open systems
Process category(ies)	PROC19 - Hand-mixing with intimate contact and only PPE available
Product category(ies)	PC39 - Cosmetics, personal care products
Product Name	XIAMETER PMX 200 SILICONE FLUID 0.65 cSt
Sector(s) of use	SU22 - Professional uses

Section 2 - Operational conditions and risk management measures

Section 2.1 - Control of environmental exposure

Environmental release category(ies) - ERC8a - Wide dispersive indoor use of processing aids in open systems

Covers concentrations up to 10%
Amounts used

Remarks	Continuous release
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Other operational conditions of use affecting environmental exposure

Emission days	365
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Conditions and measures related to municipal sewage treatment plant

Type	Municipal STP
Assumed domestic sewage treatment plant flow	2000 m3/d
Sludge treatment	Can be landfilled or incinerated, when in compliance with local regulations
Remarks	Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination

Conditions and measures related to external treatment of waste for disposal

Disposal	Dispose of waste product or used containers according to local regulations
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Control of worker exposure

Process category(ies)	PROC19 - Hand-mixing with intimate contact and only PPE available
Covers concentrations up to	10%

Physical form of product	Liquid
Vapour pressure	5500 Pa
Assumes process temperature up to	25 C

Section 3 - Exposure estimation

Environmental release category(ies) - ERC8a - Wide dispersive indoor use of processing aids in open systems

Predicted No Effect Concentration (PNEC)

Freshwater	0.002 mg/l
Freshwater sediment	8.9 mg/kg d.w.
Marine water	0 mg/l
Marine sediment	0.890 mg/kg d.w.
Soil	0.083 mg/kg d.w.
Impact on Sewage Treatment	10 mg/l
Intermittent release	0.003 mg/l

Calculation method Used EUSES model

Environment	predicted exposure level	Risk characterisation ratio (RCR)
Freshwater	0.0000038 mg/l	0.002
Marine water	0.0000004 mg/l	0.002
Freshwater sediment	0.000085 mg/kg w.w.	< 0.001
Marine sediment	0.0000081 mg/kg w.w.	< 0.001
Soil	0.000015 mg/kg w.w.	0.002

Derived No Effect Level (DNEL):

Worker - dermal, long-term - systemic	333 mg/kg bw/d
Worker - inhalative, long-term - systemic	53.4 mg/m ³
Consumer - oral, long-term - systemic	0.27 mg/kg bw/d
Consumer - dermal, long-term - systemic	167 mg/kg bw/d
Consumer - inhalative, long-term - systemic	13.3 mg/m ³

Section 4 - Guidance to check compliance with the exposure scenario

ECHA guidance for downstream users. Further information on the assumptions contained in this exposure scenario can be found at: http://guidance.echa.europa.eu/guidance_en.htm.

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required.

Annex to the Safety Data Sheet according to Regulation (EC) No 1907/2006 [REACH]

Product Name XIAMETER PMX 200 SILICONE FLUID 0.65 cSt
Chemical name HEXAMETHYLDISILOXANE
Pure substance/mixture Substance
REACH registration number 01-2119496108-31-XXXX
CAS No 107-46-0
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 6 Mid Point Business Park
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Non-Emergency Telephone Number +44 1274 267300 / +44 1274 267306

E-mail address SDS.EMEA@univarsolutions.com

Section 1 - Title

Title Manufacture of computer, electronic and optical products, electrical equipment
Type Worker
Main user group Industrial uses: Uses of substances as such or in preparations at industrial sites
Environmental release category(ies) ERC6b - Industrial use of reactive processing aids
Process category(ies) PROC8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities
 PROC9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
 PROC13 - Treatment of articles by dipping and pouring
Product category(ies) PC33 - Semiconductor(s) PC35 - Washing and cleaning products (including solvent based products)
Product Name XIAMETER PMX 200 SILICONE FLUID 0.65 cSt
Sector(s) of use SU3 - Industrial uses: Uses of substances as such or in preparations at industrial sites
 SU16 - Manufacture of computer, electronic and optical products, electrical equipment

Section 2 - Operational conditions and risk management measures

Section 2.1 - Control of environmental exposure

Environmental release category(ies) - ERC6b - Industrial use of reactive processing aids

Covers concentrations up to 25%
Amounts used

Type	Annual amount per site
Value	0.3
Units	t(ons)/year

Other operational conditions of use affecting environmental exposure

Emission days	250
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Conditions and measures related to external treatment of waste for disposal

Disposal	Dispose of waste product or used containers according to local regulations
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Control of worker exposure

Process category(ies)	PROC8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities
Covers concentrations up to	25%
Physical form of product	Liquid

Vapour pressure	5500 Pa
Amounts used	1.2 kg/d
Exposure duration	Avoid carrying out activities involving exposure for more than 4 hours
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). 1 uses per day
Technical conditions and measures to control dispersion from source towards the worker	Drain down and flush system prior to equipment break-in or maintenance Avoid accumulating electrostatic charge Handle within a fume cupboard or implement suitable equivalent methods to minimise exposure Ensure procedures and training for emergency decontamination and disposal are in place Local exhaust ventilation - efficiency of at least 90%
Conditions and measures related to personal protection, hygiene and health evaluation	Use suitable eye protection Chemical resistant apron Prolonged or repeated exposure increases the risk Wear a respirator conforming to EN 140 with Type A filter or better Provide a basic standard of general ventilation (1 to 3 air changes per hour)
Organisational measures to prevent /limit releases, dispersion and exposure	Supervision in place to check that the RMMs in place are being used correctly and OCs followed Clean equipment and the work area every day Ensure operatives are trained to minimise exposures Locate bulk storage outdoors Ensure containment of the emission source
Indoor/Outdoor use	Indoor
Assumes process temperature up to	25 C

Process category(ies)	PROC8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities
Covers concentrations up to	25%
Physical form of product	Liquid
Vapour pressure	5500 Pa
Amounts used	1.2 kg/d
Exposure duration	Avoid carrying out activities involving exposure for more than 4 hours
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). 1 uses per day
Technical conditions and measures to control dispersion from source towards the worker	Drain down and flush system prior to equipment break-in or maintenance Avoid accumulating electrostatic charge Handle within a fume cupboard or implement suitable equivalent methods to minimise exposure Ensure procedures and training for emergency decontamination and disposal are in place Local exhaust ventilation - efficiency of at least 90%
Conditions and measures related to personal protection, hygiene and health evaluation	Use suitable eye protection Chemical resistant apron Prolonged or repeated exposure increases the risk Wear a respirator conforming to EN 140 with Type A filter or better Provide a basic standard of general ventilation (1 to 3 air changes per hour)
Organisational measures to prevent /limit releases, dispersion and exposure	Supervision in place to check that the RMMs in place are being used correctly and OCs followed Clean equipment and the work area every day Ensure operatives are trained to minimise exposures Locate bulk storage outdoors Ensure containment of the emission source
Indoor/Outdoor use	Indoor
Assumes process temperature up to	25 C

Process category(ies)	PROC9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
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Covers concentrations up to	25%
Physical form of product	Liquid
Vapour pressure	5500 Pa
Amounts used	1.2 kg/d
Exposure duration	Avoid carrying out activities involving exposure for more than 4 hours
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). 1 uses per day
Technical conditions and measures to control dispersion from source towards the worker	Drain down and flush system prior to equipment break-in or maintenance Avoid accumulating electrostatic charge Handle within a fume cupboard or implement suitable equivalent methods to minimise exposure Ensure procedures and training for emergency decontamination and disposal are in place Local exhaust ventilation - efficiency of at least 90%
Conditions and measures related to personal protection, hygiene and health evaluation	Use suitable eye protection Chemical resistant apron Prolonged or repeated exposure increases the risk Wear a respirator conforming to EN 140 with Type A filter or better Provide a basic standard of general ventilation (1 to 3 air changes per hour)
Organisational measures to prevent /limit releases, dispersion and exposure	Supervision in place to check that the RMMs in place are being used correctly and OCs followed Clean equipment and the work area every day Ensure operatives are trained to minimise exposures Locate bulk storage outdoors Ensure containment of the emission source
Indoor/Outdoor use	Indoor
Assumes process temperature up to	25 C

Process category(ies)	PROC13 - Treatment of articles by dipping and pouring
Covers concentrations up to	25%
Physical form of product	Liquid
Vapour pressure	5500 Pa
Amounts used	1.2 kg/d
Exposure duration	Avoid carrying out activities involving exposure for more than 4 hours
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). 1 uses per day
Technical conditions and measures to control dispersion from source towards the worker	Drain down and flush system prior to equipment break-in or maintenance Avoid accumulating electrostatic charge Handle within a fume cupboard or implement suitable equivalent methods to minimise exposure Ensure procedures and training for emergency decontamination and disposal are in place Local exhaust ventilation - efficiency of at least 90%
Conditions and measures related to personal protection, hygiene and health evaluation	Use suitable eye protection Chemical resistant apron Prolonged or repeated exposure increases the risk Wear a respirator conforming to EN 140 with Type A filter or better Provide a basic standard of general ventilation (1 to 3 air changes per hour)
Organisational measures to prevent /limit releases, dispersion and exposure	Supervision in place to check that the RMMs in place are being used correctly and OCs followed Clean equipment and the work area every day Ensure operatives are trained to minimise exposures Locate bulk storage outdoors Ensure containment of the emission source
Indoor/Outdoor use	Indoor
Assumes process temperature up to	25 C

Section 3 - Exposure estimation

Environmental release category(ies) - ERC6b - Industrial use of reactive processing aids

Predicted No Effect Concentration (PNEC)

Freshwater	0.002 mg/l
Freshwater sediment	8.9 mg/kg d.w.
Marine water	0 mg/l
Marine sediment	0.890 mg/kg d.w.
Soil	0.083 mg/kg d.w.
Impact on Sewage Treatment	10 mg/l
Intermittent release	0.003 mg/l

Derived No Effect Level (DNEL):

Worker - dermal, long-term - systemic	333 mg/kg bw/d
Worker - inhalative, long-term - systemic	53.4 mg/m ³
Consumer - oral, long-term - systemic	0.27 mg/kg bw/d
Consumer - dermal, long-term - systemic	167 mg/kg bw/d
Consumer - inhalative, long-term - systemic	13.3 mg/m ³

Calculation method

Used ECETOC TRA model
Other measured data

Process category(ies)	Exposure route	predicted exposure level	Risk characterisation ratio (RCR)
PROC8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities	Worker - dermal, long-term - systemic	5 mg/kg bw/d	0.015
PROC8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities	Worker - inhalative, long-term - systemic	20 mg/m ³	0.38
PROC9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing)	Worker - dermal, long-term - systemic	0.41 mg/kg bw/d	0.001
PROC9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing)	Worker - inhalative, long-term - systemic	20 mg/m ³	0.38
PROC13 - Treatment of articles by dipping and pouring	Worker - dermal, long-term - systemic	0.82 mg/kg bw/d	0.003
PROC13 - Treatment of articles by dipping and pouring	Worker - inhalative, long-term - systemic	20 mg/m ³	0.38

Section 4 - Guidance to check compliance with the exposure scenario

ECHA guidance for downstream users. Further information on the assumptions contained in this exposure scenario can be found at: http://guidance.echa.europa.eu/guidance_en.htm.

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to

define appropriate site-specific risk management measures. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMS or a site-specific chemical safety assessment is required.

Annex to the Safety Data Sheet according to Regulation (EC) No 1907/2006 [REACH]

Product Name XIAMETER PMX 200 SILICONE FLUID 0.65 cSt
Chemical name HEXAMETHYLDISILOXANE
Pure substance/mixture Substance
REACH registration number 01-2119496108-31-XXXX
CAS No 107-46-0
EC No (EU Index No) 203-492-7
Supplier Univar Solutions UK Ltd
 Aquarius House
 6 Mid Point Business Park
 Bradford
 GBR

Non-Emergency Telephone Number +44 1274 267300 / +44 1274 267306

E-mail address SDS.EMEA@univarsolutions.com

Section 1 - Title

Title Sealant
Type Worker
Main user group Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Environmental release category(ies) ERC8a - Wide dispersive indoor use of processing aids in open systems
Process category(ies) PROC19 - Hand-mixing with intimate contact and only PPE available
Product category(ies) PC1 - Adhesives, sealants
Product Name XIAMETER PMX 200 SILICONE FLUID 0.65 cSt
Sector(s) of use SU19 - Building and construction work SU22 - Professional uses

Section 2 - Operational conditions and risk management measures

Section 2.1 - Control of environmental exposure

Environmental release category(ies) - ERC8a - Wide dispersive indoor use of processing aids in open systems

Covers concentrations up to 25%
Amounts used

Type	Annual amount per site
Value	0.02
Units	t(ons)/year

Other operational conditions of use affecting environmental exposure

Emission days	200
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Conditions and measures related to municipal sewage treatment plant

Type	Municipal STP
Remarks	Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination

Conditions and measures related to external treatment of waste for disposal

Disposal	Dispose of waste product or used containers according to local regulations
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Control of worker exposure

Process category(ies)	PROC19 - Hand-mixing with intimate contact and only PPE available
Covers concentrations up to	5%
Physical form of product	Liquid

Vapour pressure	5500 Pa
Amounts used	0.1 kg/d
Exposure duration	Avoid carrying out operation for more than 15 minutes
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). 1 uses per day
Technical conditions and measures to control dispersion from source towards the worker	Avoid accumulating electrostatic charge Handle within a fume cupboard or implement suitable equivalent methods to minimise exposure Ensure procedures and training for emergency decontamination and disposal are in place Provide a basic standard of general ventilation (1 to 3 air changes per hour) Local exhaust ventilation - efficiency of at least 0%
Conditions and measures related to personal protection, hygiene and health evaluation	Use suitable eye protection Provide a basic standard of general ventilation (1 to 3 air changes per hour)
Organisational measures to prevent /limit releases, dispersion and exposure	Supervision in place to check that the RMMs in place are being used correctly and OCs followed Ensure operatives are trained to minimise exposures Locate bulk storage outdoors
Indoor/Outdoor use	Indoor
Assumes process temperature up to	25 C

Section 3 - Exposure estimation

Environmental release category(ies) - ERC8a - Wide dispersive indoor use of processing aids in open systems

Predicted No Effect Concentration (PNEC)

Freshwater	0.002 mg/l
Freshwater sediment	8.9 mg/kg d.w.
Marine water	0 mg/l
Marine sediment	0.890 mg/kg d.w.
Soil	0.083 mg/kg d.w.
Impact on Sewage Treatment	10 mg/l
Intermittent release	0.003 mg/l

Derived No Effect Level (DNEL):

Worker - dermal, long-term - systemic	333 mg/kg bw/d
Worker - inhalative, long-term - systemic	53.4 mg/m ³
Consumer - oral, long-term - systemic	0.27 mg/kg bw/d
Consumer - dermal, long-term - systemic	167 mg/kg bw/d
Consumer - inhalative, long-term - systemic	13.3 mg/m ³

Calculation method Used ECETOC TRA model

Process category(ies)	Exposure route	predicted exposure level	Risk characterisation ratio (RCR)
PROC19 - Hand-mixing with intimate contact and only PPE available	Worker - dermal, long-term - systemic	3.4 mg/kg bw/d	0.01
PROC19 - Hand-mixing with intimate contact and only PPE available	Worker - inhalative, long-term - systemic	41 mg/m ³	0.76

Section 4 - Guidance to check compliance with the exposure scenario

ECHA guidance for downstream users. Further information on the assumptions contained in this exposure scenario can be found at: http://guidance.echa.europa.eu/guidance_en.htm.

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMS or a site-specific chemical safety assessment is required.

Annex to the Safety Data Sheet according to Regulation (EC) No 1907/2006 [REACH]

Product Name	XIAMETER PMX 200 SILICONE FLUID 0.65 cSt
Chemical name	HEXAMETHYLDISILOXANE
Pure substance/mixture	Substance
REACH registration number	01-2119496108-31-XXXX
CAS No	107-46-0
EC No (EU Index No)	203-492-7
Supplier	Univar Solutions UK Ltd Aquarius House 6 Mid Point Business Park Bradford GBR
Non-Emergency Telephone Number	+44 1274 267300 / +44 1274 267306
E-mail address	SDS.EMEA@univarsolutions.com

Section 1 - Title

Title	Cosmetics, personal care products
Type	Consumer
Main user group	Consumer uses: Private households (= general public = consumers)
Environmental release category(ies)	ERC8a - Wide dispersive indoor use of processing aids in open systems
Process category(ies)	PROC19 - Hand-mixing with intimate contact and only PPE available
Product category(ies)	PC39 - Cosmetics, personal care products
Product Name	XIAMETER PMX 200 SILICONE FLUID 0.65 cSt
Sector(s) of use	SU21 - Consumer uses

Section 2 - Operational conditions and risk management measures

Section 2.1 - Control of environmental exposure

Environmental release category(ies) - ERC8a - Wide dispersive indoor use of processing aids in open systems

Covers concentrations up to 10%
Amounts used

Remarks	Continuous release
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Other operational conditions of use affecting environmental exposure

Emission days	365
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Conditions and measures related to municipal sewage treatment plant

Remarks	Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination
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Conditions and measures related to external treatment of waste for disposal

Disposal	Dispose of waste product or used containers according to local regulations
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Section 3 - Exposure estimation

Environmental release category(ies) - ERC8a - Wide dispersive indoor use of processing aids in open systems

Predicted No Effect Concentration (PNEC)

Freshwater	0.002 mg/l
Freshwater sediment	8.9 mg/kg d.w.
Marine water	0 mg/l
Marine sediment	0.890 mg/kg d.w.
Soil	0.083 mg/kg d.w.
Impact on Sewage Treatment	10 mg/l
Intermittent release	0.003 mg/l

Calculation method Used EUSES model

Environment	predicted exposure level	Risk characterisation ratio (RCR)
Freshwater	0.0000038 mg/l	0.002
Marine water	0.0000004 mg/l	0.002
Freshwater sediment	0.000085 mg/kg w.w.	< 0.001
Marine sediment	0.0000081 mg/kg w.w.	< 0.001
Soil	0.000015 mg/kg w.w.	0.002

Derived No Effect Level (DNEL):

Worker - dermal, long-term - systemic	333 mg/kg bw/d
Worker - inhalative, long-term - systemic	53.4 mg/m ³
Consumer - oral, long-term - systemic	0.27 mg/kg bw/d
Consumer - dermal, long-term - systemic	167 mg/kg bw/d
Consumer - inhalative, long-term - systemic	13.3 mg/m ³

Calculation method Used ECETOC TRA model

Section 4 - Guidance to check compliance with the exposure scenario

ECHA guidance for downstream users. Further information on the assumptions contained in this exposure scenario can be found at: http://guidance.echa.europa.eu/guidance_en.htm.

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required.

Annex to the Safety Data Sheet according to Regulation (EC) No 1907/2006 [REACH]

Product Name	XIAMETER PMX 200 SILICONE FLUID 0.65 cSt
Chemical name	HEXAMETHYLDISILOXANE
Pure substance/mixture	Substance
REACH registration number	01-2119496108-31-XXXX
CAS No	107-46-0
EC No (EU Index No)	203-492-7
Supplier	Univar Solutions UK Ltd Aquarius House 6 Mid Point Business Park Bradford GBR
Non-Emergency Telephone Number	+44 1274 267300 / +44 1274 267306
E-mail address	SDS.EMEA@univarsolutions.com

Section 1 - Title

Title	Automotive Care Products
Type	Worker
Main user group	Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Environmental release category(ies)	ERC8d - Wide dispersive outdoor use of processing aids in open systems
Process category(ies)	PROC8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities PROC19 - Hand-mixing with intimate contact and only PPE available
Product category(ies)	PC31 - Polishes and wax blends PC35 - Washing and cleaning products (including solvent based products)
Product Name	XIAMETER PMX 200 SILICONE FLUID 0.65 cSt
Sector(s) of use	SU22 - Professional uses

Section 2 - Operational conditions and risk management measures

Section 2.1 - Control of environmental exposure

Environmental release category(ies) - ERC8d - Wide dispersive outdoor use of processing aids in open systems

Covers concentrations up to 5%

Other operational conditions of use affecting environmental exposure

Emission days	365
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Conditions and measures related to municipal sewage treatment plant

Type	Municipal STP
Assumed domestic sewage treatment plant flow	2000 m3/d
Remarks	Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination

Conditions and measures related to external treatment of waste for disposal

Disposal	Dispose of waste product or used containers according to local regulations
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Control of worker exposure

Process category(ies)	PROC8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities
Covers concentrations up to	5%
Physical form of product	Liquid

Vapour pressure	5500 Pa
Exposure duration	Avoid carrying out activities involving exposure for more than 1 hour
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). 1 uses per day
Technical conditions and measures to control dispersion from source towards the worker	Avoid accumulating electrostatic charge Handle within a fume cupboard or implement suitable equivalent methods to minimise exposure Ensure procedures and training for emergency decontamination and disposal are in place Provide a basic standard of general ventilation (1 to 3 air changes per hour) Local exhaust ventilation - efficiency of at least 0%
Conditions and measures related to personal protection, hygiene and health evaluation	Use suitable eye protection Provide a basic standard of general ventilation (1 to 3 air changes per hour)
Organisational measures to prevent /limit releases, dispersion and exposure	Supervision in place to check that the RMMs in place are being used correctly and OCs followed Ensure operatives are trained to minimise exposures Locate bulk storage outdoors
Indoor/Outdoor use	Outdoor
Assumes process temperature up to	25 C

Process category(ies)	PROC19 - Hand-mixing with intimate contact and only PPE available
Covers concentrations up to	5%
Physical form of product	Liquid
Vapour pressure	5500 Pa
Exposure duration	Avoid carrying out activities involving exposure for more than 1 hour
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). 1 uses per day
Technical conditions and measures to control dispersion from source towards the worker	Avoid accumulating electrostatic charge Handle within a fume cupboard or implement suitable equivalent methods to minimise exposure Ensure procedures and training for emergency decontamination and disposal are in place Provide a basic standard of general ventilation (1 to 3 air changes per hour) Local exhaust ventilation - efficiency of at least 0%
Conditions and measures related to personal protection, hygiene and health evaluation	Use suitable eye protection Provide a basic standard of general ventilation (1 to 3 air changes per hour)
Organisational measures to prevent /limit releases, dispersion and exposure	Supervision in place to check that the RMMs in place are being used correctly and OCs followed Ensure operatives are trained to minimise exposures Locate bulk storage outdoors
Indoor/Outdoor use	Outdoor
Assumes process temperature up to	25 C

Section 3 - Exposure estimation

Environmental release category(ies) - ERC8d - Wide dispersive outdoor use of processing aids in open systems

Predicted No Effect Concentration (PNEC)

Freshwater	0.002 mg/l
Freshwater sediment	8.9 mg/kg d.w.
Marine water	0 mg/l
Marine sediment	0.890 mg/kg d.w.
Soil	0.083 mg/kg d.w.

Impact on Sewage Treatment 10 mg/l
Intermittent release 0.003 mg/l

Derived No Effect Level (DNEL):

Worker - dermal, long-term - systemic	333 mg/kg bw/d
Worker - inhalative, long-term - systemic	53.4 mg/m ³
Consumer - oral, long-term - systemic	0.27 mg/kg bw/d
Consumer - dermal, long-term - systemic	167 mg/kg bw/d
Consumer - inhalative, long-term - systemic	13.3 mg/m ³

Calculation method	Used ECETOC TRA model		
Process category(ies)	Exposure route	predicted exposure level	Risk characterisation ratio (RCR)
PROC8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities	Worker - dermal, long-term - systemic	0.55 mg/kg bw/d	0.002
PROC8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities	Worker - inhalative, long-term - systemic	19 mg/m ³	0.35

Section 4 - Guidance to check compliance with the exposure scenario

ECHA guidance for downstream users. Further information on the assumptions contained in this exposure scenario can be found at: http://guidance.echa.europa.eu/guidance_en.htm.

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required.

Annex to the Safety Data Sheet according to Regulation (EC) No 1907/2006 [REACH]

Product Name XIAMETER PMX 200 SILICONE FLUID 0.65 cSt
Chemical name HEXAMETHYLDISILOXANE
Pure substance/mixture Substance
REACH registration number 01-2119496108-31-XXXX
CAS No 107-46-0
EC No (EU Index No) 203-492-7
Supplier Univar Solutions UK Ltd
 Aquarius House
 6 Mid Point Business Park
 Bradford
 GBR

Non-Emergency Telephone Number +44 1274 267300 / +44 1274 267306

E-mail address SDS.EMEA@univarsolutions.com

Section 1 - Title

Title Cleaning of optical wear.
Type Worker
Main user group Industrial uses: Uses of substances as such or in preparations at industrial sites
Environmental release category(ies) ERC4 - Industrial use of processing aids in processes and products, not becoming part of articles
Process category(ies) PROC13 - Treatment of articles by dipping and pouring
Product category(ies) PC35 - Washing and cleaning products (including solvent based products)
Product Name XIAMETER PMX 200 SILICONE FLUID 0.65 cSt
Sector(s) of use SU3 - Industrial uses: Uses of substances as such or in preparations at industrial sites

Section 2 - Operational conditions and risk management measures

Section 2.1 - Control of environmental exposure

Environmental release category(ies) - ERC4 - Industrial use of processing aids in processes and products, not becoming part of articles

Covers concentrations up to 100%
Amounts used

Type	Annual amount per site
Value	0.02
Units	t(ons)/year

Other operational conditions of use affecting environmental exposure

Emission days	200
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Conditions and measures related to external treatment of waste for disposal

Disposal	Dispose of waste product or used containers according to local regulations
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Control of worker exposure	
Process category(ies)	PROC13 - Treatment of articles by dipping and pouring
Covers concentrations up to	100%
Physical form of product	Liquid
Vapour pressure	5500 Pa
Amounts used	0.1 kg/d
Exposure duration	Avoid carrying out operation for more than 1 hour
Use frequency	Covers daily exposures up to 8 hours (unless stated differently).

	1 uses per day
Technical conditions and measures to control dispersion from source towards the worker	Drain down and flush system prior to equipment break-in or maintenance Avoid accumulating electrostatic charge Handle within a fume cupboard or implement suitable equivalent methods to minimise exposure Ensure procedures and training for emergency decontamination and disposal are in place Local exhaust ventilation - efficiency of at least 0%
Conditions and measures related to personal protection, hygiene and health evaluation	Use suitable eye protection Chemical resistant apron Prolonged or repeated exposure increases the risk Wear a respirator conforming to EN 140 with Type A filter or better Provide a basic standard of general ventilation (1 to 3 air changes per hour)
Organisational measures to prevent /limit releases, dispersion and exposure	Supervision in place to check that the RMMs in place are being used correctly and OCs followed Clean equipment and the work area every day Ensure operatives are trained to minimise exposures Locate bulk storage outdoors Ensure containment of the emission source
Indoor/Outdoor use	Indoor
Assumes process temperature up to	25 C

Section 3 - Exposure estimation

Environmental release category(ies) - ERC4 - Industrial use of processing aids in processes and products, not becoming part of articles

Predicted No Effect Concentration (PNEC)

Freshwater	0.002 mg/l
Freshwater sediment	8.9 mg/kg d.w.
Marine water	0 mg/l
Marine sediment	0.890 mg/kg d.w.
Soil	0.083 mg/kg d.w.
Impact on Sewage Treatment	10 mg/l
Intermittent release	0.003 mg/l

Derived No Effect Level (DNEL):

Worker - dermal, long-term - systemic	333 mg/kg bw/d
Worker - inhalative, long-term - systemic	53.4 mg/m ³
Consumer - oral, long-term - systemic	0.27 mg/kg bw/d
Consumer - dermal, long-term - systemic	167 mg/kg bw/d
Consumer - inhalative, long-term - systemic	13.3 mg/m ³

Calculation method Used ECETOC TRA model

Process category(ies)	Exposure route	predicted exposure level	Risk characterisation ratio (RCR)
PROC13 - Treatment of articles by dipping and pouring	Worker - dermal, long-term - systemic	2.7 mg/kg bw/d	0.008
PROC13 - Treatment of articles by dipping and pouring	Worker - inhalative, long-term - systemic	20 mg/m ³	0.38

Section 4 - Guidance to check compliance with the exposure scenario

ECHA guidance for downstream users. Further information on the assumptions contained in this exposure scenario can be found at. http://guidance.echa.europa.eu/guidance_en.htm.

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required.

Annex to the Safety Data Sheet according to Regulation (EC) No 1907/2006 [REACH]

Product Name XIAMETER PMX 200 SILICONE FLUID 0.65 cSt
Chemical name HEXAMETHYLDISILOXANE
Pure substance/mixture Substance
REACH registration number 01-2119496108-31-XXXX
CAS No 107-46-0
EC No (EU Index No) 203-492-7
Supplier Univar Solutions UK Ltd
 Aquarius House
 6 Mid Point Business Park
 Bradford
 GBR

Non-Emergency Telephone Number +44 1274 267300 / +44 1274 267306

E-mail address SDS.EMEA@univarsolutions.com

Section 1 - Title

Title Formulation of medical adhesives and pharmaceuticals.
Type Worker
Main user group Industrial uses: Uses of substances as such or in preparations at industrial sites
Environmental release category(ies) ERC2 - Formulation of preparations (mixtures)
Process category(ies) PROC5 - Mixing or blending in batch processes for formulation of preparations and articles (multi-stage and/or significant contact)
 PROC8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities

Product category(ies) PC0 - Other Products
Product Name XIAMETER PMX 200 SILICONE FLUID 0.65 cSt
Sector(s) of use SU3 - Industrial uses: Uses of substances as such or in preparations at industrial sites
 SU10 - Formulation [mixing] of preparations and/or re-packaging (excluding alloys) SU20 - Health services

Section 2 - Operational conditions and risk management measures

Section 2.1 - Control of environmental exposure

Environmental release category(ies) - ERC2 - Formulation of preparations (mixtures)

Covers concentrations up to 100%

Control measures to prevent releases

Water	Acclimated biological treatment
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Conditions and measures related to external treatment of waste for disposal

Disposal	Dispose of waste product or used containers according to local regulations
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Control of worker exposure

Process category(ies)	PROC5 - Mixing or blending in batch processes for formulation of preparations and articles (multi-stage and/or significant contact)
Covers concentrations up to	100%
Physical form of product	Liquid
Vapour pressure	5500 Pa
Exposure duration	Avoid carrying out activities involving exposure for more than 4 hours
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). 1 uses per day
Technical conditions and measures to	Drain down and flush system prior to equipment break-in or maintenance

control dispersion from source towards the worker	Avoid accumulating electrostatic charge Handle within a fume cupboard or implement suitable equivalent methods to minimise exposure Ensure procedures and training for emergency decontamination and disposal are in place Local exhaust ventilation - efficiency of at least 90%
Conditions and measures related to personal protection, hygiene and health evaluation	Use suitable eye protection Chemical resistant apron Prolonged or repeated exposure increases the risk Wear a respirator conforming to EN 140 with Type A filter or better Provide a basic standard of general ventilation (1 to 3 air changes per hour)
Organisational measures to prevent /limit releases, dispersion and exposure	Supervision in place to check that the RMMs in place are being used correctly and OCs followed Clean equipment and the work area every day Ensure operatives are trained to minimise exposures Locate bulk storage outdoors Ensure containment of the emission source
Indoor/Outdoor use	Indoor
Assumes process temperature up to	25 C

Process category(ies)	PROC8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
Covers concentrations up to	100%
Physical form of product	Liquid
Vapour pressure	5500 Pa
Exposure duration	Avoid carrying out activities involving exposure for more than 4 hours
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). 1 uses per day
Technical conditions and measures to control dispersion from source towards the worker	Drain down and flush system prior to equipment break-in or maintenance Avoid accumulating electrostatic charge Handle within a fume cupboard or implement suitable equivalent methods to minimise exposure Ensure procedures and training for emergency decontamination and disposal are in place Local exhaust ventilation - efficiency of at least 95%
Conditions and measures related to personal protection, hygiene and health evaluation	Use suitable eye protection Chemical resistant apron Prolonged or repeated exposure increases the risk Wear a respirator conforming to EN 140 with Type A filter or better Provide a basic standard of general ventilation (1 to 3 air changes per hour)
Organisational measures to prevent /limit releases, dispersion and exposure	Supervision in place to check that the RMMs in place are being used correctly and OCs followed Clean equipment and the work area every day Ensure operatives are trained to minimise exposures Locate bulk storage outdoors Ensure containment of the emission source
Indoor/Outdoor use	Indoor
Assumes process temperature up to	25 C

Section 3 - Exposure estimation

Environmental release category(ies) - ERC2 - Formulation of preparations (mixtures)

Predicted No Effect Concentration (PNEC)

Freshwater 0.002 mg/l

Freshwater sediment	8.9 mg/kg d.w.
Marine water	0 mg/l
Marine sediment	0.890 mg/kg d.w.
Soil	0.083 mg/kg d.w.
Impact on Sewage Treatment	10 mg/l
Intermittent release	0.003 mg/l

Derived No Effect Level (DNEL):

Worker - dermal, long-term - systemic	333 mg/kg bw/d
Worker - inhalative, long-term - systemic	53.4 mg/m ³
Consumer - oral, long-term - systemic	0.27 mg/kg bw/d
Consumer - dermal, long-term - systemic	167 mg/kg bw/d
Consumer - inhalative, long-term - systemic	13.3 mg/m ³

Calculation method	Used ECETOC TRA model		
Process category(ies)	Exposure route	predicted exposure level	Risk characterisation ratio (RCR)
PROC5 - Mixing or blending in batch processes for formulation of preparations and articles (multi-stage and/or significant contact)	Worker - dermal, long-term - systemic	1.4 mg/kg bw/d	0.004
PROC5 - Mixing or blending in batch processes for formulation of preparations and articles (multi-stage and/or significant contact)	Worker - inhalative, long-term - systemic	34 mg/m ³	0.63
PROC8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities	Worker - dermal, long-term - systemic	0.69 mg/kg bw/d	0.002
PROC8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities	Worker - inhalative, long-term - systemic	8.5 mg/m ³	0.16

Section 4 - Guidance to check compliance with the exposure scenario

ECHA guidance for downstream users. Further information on the assumptions contained in this exposure scenario can be found at: http://guidance.echa.europa.eu/guidance_en.htm.

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required.

Annex to the Safety Data Sheet according to Regulation (EC) No 1907/2006 [REACH]

Product Name XIAMETER PMX 200 SILICONE FLUID 0.65 cSt
Chemical name HEXAMETHYLDISILOXANE
Pure substance/mixture Substance
REACH registration number 01-2119496108-31-XXXX
CAS No 107-46-0
EC No (EU Index No) 203-492-7
Supplier Univar Solutions UK Ltd
 Aquarius House
 6 Mid Point Business Park
 Bradford
 GBR

Non-Emergency Telephone Number +44 1274 267300 / +44 1274 267306

E-mail address SDS.EMEA@univarsolutions.com

Section 1 - Title

Title Non-metal-surface treatment products
Type Worker
Main user group Industrial uses: Uses of substances as such or in preparations at industrial sites
Environmental release category(ies) ERC6b - Industrial use of reactive processing aids
Process category(ies) PROC2 - Use in closed, continuous process with occasional controlled exposure
 PROC8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities

Product category(ies) PC15 - Non-metal-surface treatment products
Product Name XIAMETER PMX 200 SILICONE FLUID 0.65 cSt
Sector(s) of use SU3 - Industrial uses: Uses of substances as such or in preparations at industrial sites
 SU13 - Manufacture of other non-metallic mineral products

Section 2 - Operational conditions and risk management measures

Section 2.1 - Control of environmental exposure

Environmental release category(ies) - ERC6b - Industrial use of reactive processing aids

Covers concentrations up to 100%

Conditions and measures related to external treatment of waste for disposal

Disposal	Dispose of waste product or used containers according to local regulations
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Control of worker exposure	
Process category(ies)	PROC2 - Use in closed, continuous process with occasional controlled exposure
Covers concentrations up to	100%
Physical form of product	Liquid
Vapour pressure	5500 Pa
Exposure duration	Avoid carrying out activities involving exposure for more than 4 hours
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). 1 uses per day
Technical conditions and measures to control dispersion from source towards the worker	Drain down and flush system prior to equipment break-in or maintenance Avoid accumulating electrostatic charge Handle within a fume cupboard or implement suitable equivalent methods to minimise exposure Ensure procedures and training for emergency decontamination and disposal are in place Local exhaust ventilation - efficiency of at least 90%
Conditions and measures related to personal protection, hygiene and	Use suitable eye protection Chemical resistant apron

health evaluation	Prolonged or repeated exposure increases the risk Wear a respirator conforming to EN 140 with Type A filter or better Provide a basic standard of general ventilation (1 to 3 air changes per hour)
Organisational measures to prevent /limit releases, dispersion and exposure	Supervision in place to check that the RMMs in place are being used correctly and OCs followed Clean equipment and the work area every day Ensure operatives are trained to minimise exposures Locate bulk storage outdoors Ensure containment of the emission source
Indoor/Outdoor use	Indoor
Assumes process temperature up to	25 C

Process category(ies)	PROC8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
Covers concentrations up to	100%
Physical form of product	Liquid
Vapour pressure	5500 Pa
Exposure duration	Avoid carrying out activities involving exposure for more than 4 hours
Use frequency	Covers daily exposures up to 8 hours (unless stated differently). 1 uses per day
Technical conditions and measures to control dispersion from source towards the worker	Drain down and flush system prior to equipment break-in or maintenance Avoid accumulating electrostatic charge Handle within a fume cupboard or implement suitable equivalent methods to minimise exposure Ensure procedures and training for emergency decontamination and disposal are in place Local exhaust ventilation - efficiency of at least 95%
Conditions and measures related to personal protection, hygiene and health evaluation	Use suitable eye protection Chemical resistant apron Prolonged or repeated exposure increases the risk Wear a respirator conforming to EN 140 with Type A filter or better Provide a basic standard of general ventilation (1 to 3 air changes per hour)
Organisational measures to prevent /limit releases, dispersion and exposure	Supervision in place to check that the RMMs in place are being used correctly and OCs followed Clean equipment and the work area every day Ensure operatives are trained to minimise exposures Locate bulk storage outdoors Ensure containment of the emission source
Indoor/Outdoor use	Indoor
Assumes process temperature up to	25 C

Section 3 - Exposure estimation

Environmental release category(ies) - ERC6b - Industrial use of reactive processing aids

Predicted No Effect Concentration (PNEC)

Freshwater	0.002 mg/l
Freshwater sediment	8.9 mg/kg d.w.
Marine water	0 mg/l
Marine sediment	0.890 mg/kg d.w.
Soil	0.083 mg/kg d.w.
Impact on Sewage Treatment	10 mg/l
Intermittent release	0.003 mg/l

Derived No Effect Level (DNEL):

Worker - dermal, long-term - systemic	333 mg/kg bw/d
Worker - inhalative, long-term - systemic	53.4 mg/m ³
Consumer - oral, long-term - systemic	0.27 mg/kg bw/d
Consumer - dermal, long-term - systemic	167 mg/kg bw/d
Consumer - inhalative, long-term - systemic	13.3 mg/m ³

Calculation method		Used ECETOC TRA model	
Process category(ies)	Exposure route	predicted exposure level	Risk characterisation ratio (RCR)
PROC2 - Use in closed, continuous process with occasional controlled exposure	Worker - dermal, long-term - systemic	0.14 mg/kg bw/d	< 0.001
PROC2 - Use in closed, continuous process with occasional controlled exposure	Worker - inhalative, long-term - systemic	3.4 mg/m ³	0.063
PROC8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities	Worker - dermal, long-term - systemic	0.69 mg/kg bw/d	0.002
PROC8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities	Worker - inhalative, long-term - systemic	8.5 mg/m ³	0.16

Section 4 - Guidance to check compliance with the exposure scenario

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Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required.