

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

Supersedes date 28-Mar-2024

Revision date 03-Mar-2025

Revision Number 6

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

1.1. Product identifier

Product Code(s)	58230
Safety data sheet number	58230
Product Name	DOWSIL 556 COSMETIC GRADE FLUID
Substance Name	REACTION MASS OF 1,1,1,5,5,5-HEXAMETHYL-3-PHENYL-3-((TRIMETHYLSILYL)OXY)TRISILOXANE AND 1,1,1,7,7,7-HEXAMETHYL-3,5-DIPHENYL-3,5-BIS((TRIMETHYLSILYL)OXY)TETRASILOXANE AND 1,1,1,9,9,9-HEXAMETHYL-3,5,7-TRIPHENYL-3,5,7-TRIS((TRIMETHYLSILYL)OXY)PENTASILOXANE
EC Number	939-487-8
CAS No	70131-69-0
Synonyms	DOW CORNING 556 COSMETIC GRADE FLUID, DC 556 FLUID, DOWSIL 556 FLUID
Pure substance/mixture	Substance

Contains REACTION MASS OF 1,1,1,5,5,5-HEXAMETHYL-3-PHENYL-3-((TRIMETHYLSILYL)OXY)TRISILOXANE AND
1,1,1,7,7,7-HEXAMETHYL-3,5-DIPHENYL-3,5-BIS((TRIMETHYLSILYL)OXY)TETRASILOXANE AND
1,1,1,9,9,9-HEXAMETHYL-3,5,7-TRIPHENYL-3,5,7-TRIS((TRIMETHYLSILYL)OXY)PENTASILOXANE

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

Recommended use	Manufacture of substance Formulation & (re)packing of substances and mixtures. Cosmetics Personal care Perfumes, fragrances Laboratory reagent 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

Applies to aerosolized material only

Acute toxicity - Inhalation (Dusts/Mists)	Category 2 - (H330)
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2.2. Label elements

Contains REACTION MASS OF 1,1,1,5,5,5-HEXAMETHYL-3-PHENYL-3-((TRIMETHYLSILYL)OXY)TRISILOXANE AND 1,1,1,7,7,7-HEXAMETHYL-3,5-DIPHENYL-3,5-BIS[(TRIMETHYLSILYL)OXY]TETRASILOXANE AND 1,1,1,9,9,9-HEXAMETHYL-3,5,7-TRIPHENYL-3,5,7-TRIS[(TRIMETHYLSILYL)OXY]PENTASILOXANE

Applies to aerosolized material only



Signal word

Danger

Hazard statements

Applies to aerosolized material only

H330 - Fatal if inhaled

Precautionary statements

P260 - Do not breathe mist/vapours/spray

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

P284 - In case of inadequate ventilation wear respiratory protection

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P310 - Immediately call a POISON CENTER or doctor/physician

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

P501 - Dispose of contents/ container to an approved waste disposal plant

Additional information

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

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.1 Substances

Chemical name	Weight-%	EC No (EU Index No)	UK REACH registration number	Classification according to GB CLP (SI)	Specific concentration	M-Factor	M-Factor (long-term)
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				2020/1567 as amended)	limit (SCL)		
REACTION MASS OF 1,1,1,5,5,5-HEXAMETHYL-3-PHENYL-3-((TRIMETHYLSILYL)OXY)TRISILOXANE AND 1,1,1,7,7,7-HEXAMETHYL-3,5-DIPHENYL-3,5-BIS[(TRIMETHYLSILYL)OXY]TETRASILOXANE AND 1,1,1,9,9,9-HEXAMETHYL-3,5,7-TRIPHENYL-3,5,7-TRIS((TRIMETHYLSILYL)OXY)PENTASILOXANE 70131-69-0	>= 90.0 - <= 100.0 %	939-487-8	-	Acute Tox. 2 (H330)	-	-	-

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

This product does not contain candidate substances of very high concern at a concentration >= 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. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Get medical attention immediately 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**

Inhalation	Fatal if inhaled. Applies to aerosolized material only.
Eyes	May cause slight eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Note to doctors	Maintain adequate ventilation and oxygenation of the patient. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.
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SECTION 5: Firefighting measures**5.1. Extinguishing media**

Suitable Extinguishing Media	Dry chemical, CO2, alcohol-resistant foam or water spray.
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	When heated and in case of fire, toxic vapours/gases may be formed. Exposure to combustion products may be a hazard to health.
Hazardous combustion products	Carbon oxides. Silicon oxides. Benzene.

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.
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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. Evacuate area. No action shall be taken involving any personal risk or without suitable training.
Other information	Refer to protective measures listed in Sections 7 and 8.
For emergency responders	Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions	Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains.
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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	Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. 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.
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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. Do not swallow. Keep container closed when not in use. 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.
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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. Store locked up. Store away from the following materials. Strong oxidising agents. Flammable liquid. 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
REACTION MASS OF 1,1,1,5,5,5-HEXAMETHYL-3-PHENYL -3-((TRIMETHYLSILYL)OXY)TRISILO XANE AND 1,1,1,7,7,7-HEXAMETHYL-3,5-DIPHE NYL-3,5-BIS((TRIMETHYLSILYL)OXY]TETRASILOXANE AND 1,1,1,9,9,9-HEXAMETHYL-3,5,7-TRIP HENYL-3,5,7-TRIS((TRIMETHYLSILY L)OXY)PENTASILOXANE 70131-69-0		10 mg/kg/day [4] [6]	71 mg/m ³ [4] [6]

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

Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
REACTION MASS OF 1,1,1,5,5,5-HEXAMETHYL-3-PHENYL -3-((TRIMETHYLSILYL)OXY)TRISILO XANE AND 1,1,1,7,7,7-HEXAMETHYL-3,5-DIPHE NYL-3,5-BIS((TRIMETHYLSILYL)OXY]TETRASILOXANE AND 1,1,1,9,9,9-HEXAMETHYL-3,5,7-TRIP HENYL-3,5,7-TRIS((TRIMETHYLSILY L)OXY)PENTASILOXANE 70131-69-0	5 mg/kg/day [4] [6]		17.4 mg/m ³ [4] [6]

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

Predicted No Effect Concentration (PNEC)

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
REACTION MASS OF 1,1,1,5,5,5-HEXAMETHYL -3-PHENYL-3-((TRIMETH YLSILYL)OXY)TRISILOXA NE AND 1,1,1,7,7,7-HEXAMETHYL -3,5-DIPHENYL-3,5-BIS[(T RIMETHYLSILYL)OXY]TE TRASILOXANE AND 1,1,1,9,9,9-HEXAMETHYL -3,5,7-TRIPHENYL-3,5,7-T RIS((TRIMETHYLSILYL)O XY)PENTASILOXANE 70131-69-0	13.5 mg/kg dry weight (d.w.)	1.35 mg/kg dry weight (d.w.)			222 mg/kg

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.

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

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 Odourless.
Odour threshold No information available

Property	Values
Melting point / freezing point	
Initial boiling point and boiling range	> 250 °C
Flammability	
Flammability Limit in Air	
Upper flammability or explosive limits	
Lower flammability or explosive limits	
Flash point	> 101 °C
Autoignition temperature	

Remarks • Method
Not determined.
@ 760 mmHg.
Not applicable.
No information available.

Closed cup.
No information available.

Decomposition temperature		No information available.
pH		No information available.
pH (as aqueous solution)		No information available.
Kinematic viscosity	20 cSt	@ 25 °C.
Dynamic viscosity		No information available.
Water solubility		Not determined.
Solubility(ies)		No information available.
Partition coefficient		Not determined.
Vapour pressure		No information available.
Relative density	0.98	
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 None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions The following materials may react with the product:. Strong oxidising agents.

10.4. Conditions to avoid

Conditions to avoid None known.

10.5. Incompatible materials

Incompatible materials Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products Carbon oxides. Silicon oxides. Benzene.

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

Inhalation Fatal if inhaled. Applies to aerosolized material only. Inhalation of vapours in high concentration may cause irritation of respiratory system.

Eye contact May cause slight eye irritation. Corneal injury is unlikely.

Skin contact Non-irritating during normal use.

Ingestion May cause discomfort if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms

Acute toxicity

Numerical measures of toxicity

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
REACTION MASS OF 1,1,1,5,5,5-HEXAMETHYL-3-PHENYL-3-((TRIMETHYLSILYL)OXY)TRISILOXANE AND 1,1,1,7,7,7-HEXAMETHYL-3,5-DIPHENYL-3,5-BIS((TRIMETHYLSILYL)OXY)TETRASILOXANE AND 1,1,1,9,9,9-HEXAMETHYL-3,5,7-TRIPHENYL-3,5,7-TRIS((TRIMETHYLSILYL)OXY)PENTASILOXANE	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 0.467 mg/l (Rat) (4h) Applies to aerosolized material only

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

Skin corrosion/irritation Non-irritating during normal use.

Method	Species	Exposure route	Effective dose	Exposure time	Results
					non-irritant

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

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

Respiratory or skin sensitisation Not a skin sensitiser.

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

REACTION MASS OF 1,1,1,5,5,5-HEXAMETHYL-3-PHENYL-3-((TRIMETHYLSILYL)OXY)TRISILOXANE AND 1,1,1,7,7,7-HEXAMETHYL-3,5-DIPHENYL-3,5-BIS((TRIMETHYLSILYL)OXY)TETRASILOXANE AND 1,1,1,9,9,9-HEXAMETHYL-3,5,7-TRIPHENYL-3,5,7-TRIS((TRIMETHYLSILYL)OXY)PENTASILOXANE (70131-69-0)

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

Germ cell mutagenicity Not mutagenic.

Product Information		
Method	Species	Results
	in vitro	Negative

Component Information

REACTION MASS OF 1,1,1,5,5,5-HEXAMETHYL-3-PHENYL-3-((TRIMETHYLSILYL)OXY)TRISILOXANE AND 1,1,1,7,7,7-HEXAMETHYL-3,5-DIPHENYL-3,5-BIS((TRIMETHYLSILYL)OXY)TETRASILOXANE AND 1,1,1,9,9,9-HEXAMETHYL-3,5,7-TRIPHENYL-3,5,7-TRIS((TRIMETHYLSILYL)OXY)PENTASILOXANE (70131-69-0)

Method	Species	Results
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	in vitro	Negative
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Carcinogenicity No information available.

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

REACTION MASS OF 1,1,1,5,5,5-HEXAMETHYL-3-PHENYL-3-((TRIMETHYLSILYL)OXY)TRISILOXANE AND 1,1,1,7,7,7-HEXAMETHYL-3,5-DIPHENYL-3,5-BIS((TRIMETHYLSILYL)OXY)TETRASILOXANE AND 1,1,1,9,9,9-HEXAMETHYL-3,5,7-TRIPHENYL-3,5,7-TRIS((TRIMETHYLSILYL)OXY)PENTASILOXANE (70131-69-0)

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

STOT - single exposure Evaluation of available data suggests that this material is not an STOT-SE toxicant.

REACTION MASS OF 1,1,1,5,5,5-HEXAMETHYL-3-PHENYL-3-((TRIMETHYLSILYL)OXY)TRISILOXANE AND 1,1,1,7,7,7-HEXAMETHYL-3,5-DIPHENYL-3,5-BIS((TRIMETHYLSILYL)OXY)TETRASILOXANE AND 1,1,1,9,9,9-HEXAMETHYL-3,5,7-TRIPHENYL-3,5,7-TRIS((TRIMETHYLSILYL)OXY)PENTASILOXANE (70131-69-0)

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 Based on available data, repeated exposures are not anticipated to cause significant adverse effects.

Component Information

REACTION MASS OF 1,1,1,5,5,5-HEXAMETHYL-3-PHENYL-3-((TRIMETHYLSILYL)OXY)TRISILOXANE AND 1,1,1,7,7,7-HEXAMETHYL-3,5-DIPHENYL-3,5-BIS((TRIMETHYLSILYL)OXY)TETRASILOXANE AND 1,1,1,9,9,9-HEXAMETHYL-3,5,7-TRIPHENYL-3,5,7-TRIS((TRIMETHYLSILYL)OXY)PENTASILOXANE (70131-69-0)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Based on available data, repeated exposures are not anticipated to cause significant adverse effects

Aspiration hazard Based on available data the classification criteria are not met.

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity The environmental impact of this product has not been fully investigated.

Method	Species	Endpoint type	Effective dose	Exposure time	Results
	Brachydanio rerio	LC50	> 500 mg/L	96 hours	

REACTION MASS OF 1,1,1,5,5,5-HEXAMETHYL-3-PHENYL-3-((TRIMETHYLSILYL)OXY)TRISILOXANE AND

1,1,1,7,7,7-HEXAMETHYL-3,5-DIPHENYL-3,5-BIS[(TRIMETHYLSILYL)OXY]TETRASILOXANE AND
 1,1,1,9,9,9-HEXAMETHYL-3,5,7-TRIPHENYL-3,5,7-TRIS[(TRIMETHYLSILYL)OXY]PENTASILOXANE (70131-69-0)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
	Brachydanio rerio	LC50	> 500 mg/L	96 hours	

12.2. Persistence and degradability

Persistence and degradability

Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions.

Method	Exposure time	Value	Results
OECD Test No. 301F: Ready Biodegradability: Manometric Respirometry Test (TG 301 F)	28 days	Biodegradation 2.2 %	Not readily biodegradable

REACTION MASS OF 1,1,1,5,5,5-HEXAMETHYL-3-PHENYL-3-((TRIMETHYLSILYL)OXY)TRISILOXANE AND
 1,1,1,7,7,7-HEXAMETHYL-3,5-DIPHENYL-3,5-BIS[(TRIMETHYLSILYL)OXY]TETRASILOXANE AND
 1,1,1,9,9,9-HEXAMETHYL-3,5,7-TRIPHENYL-3,5,7-TRIS[(TRIMETHYLSILYL)OXY]PENTASILOXANE (70131-69-0)

Method	Exposure time	Value	Results
OECD Test No. 301F: Ready Biodegradability: Manometric Respirometry Test (TG 301 F)	28 days	Biodegradation 2.2 %	Not readily biodegradable

12.3. Bioaccumulative potential

Bioaccumulation

Component Information

Chemical name	Partition coefficient
REACTION MASS OF 1,1,1,5,5,5-HEXAMETHYL-3-PHENYL-3-((TRIMETHYLSILYL)OXY)TRISILOXANE AND 1,1,1,7,7,7-HEXAMETHYL-3,5-DIPHENYL-3,5-BIS[(TRIMETHYLSILYL)OXY]TETRASILOXANE AND 1,1,1,9,9,9-HEXAMETHYL-3,5,7-TRIPHENYL-3,5,7-TRIS[(TRIMETHYLSILYL)OXY]PENTASILOXANE	9

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.

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging

Do not reuse empty containers.

SECTION 14: Transport information

IATA

14.1 UN number or ID number	Not regulated
14.2	
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	No
14.6 Special precautions for user	
Special Provisions	None

IMDG

14.1 UN number or ID number	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	No
14.6 Special precautions for user	
Special Provisions	None
14.7 Maritime transport in bulk according to IMO instruments	No information available

RID

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	No
14.6 Special precautions for user	
Special Provisions	None

ADR

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	No
14.6 Special precautions for user	
Special Provisions	None

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 contains one or more substances subject to restriction (UK REACH - Annex XVII).

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

Persistent Organic Pollutants

Not applicable

Export Notification requirements

Not applicable

Dangerous substance category per COMAH Regulations 2015 (as amended)

H2 - ACUTE TOXIC

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/NDL	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/NDL	- 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****Full text of H-Statements referred to under section 3**

H330 - Fatal if inhaled

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 8 9 10 11 12 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	28-Mar-2024
Revision date	03-Mar-2025

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	DOWSIL 556 COSMETIC GRADE
Chemical name	Reaction mass of 1,1,1,5,5,5-hexamethyl-3-phenyl-3((trimethylsilyl)oxy)trisiloxane and 1,1,1,7,7,7-hexamethyl-3,5-diphenyl-3,5-bis((trimethylsilyl)oxy)tetrasiloxane and 1,1,1,9,9,9-hexamethyl-3,5,7-triphenyl-3,5,7-tris((trimethylsilyl)oxy)pentasiloxane
Pure substance/mixture	Substance
REACH registration number	01-2119974594-23-XXXX
CAS No	70131-69-0
EC No (EU Index No)	939-487-8
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
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 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 Name	DOWSIL 556 COSMETIC GRADE
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) - ERC1 - Manufacture of substances

Covers concentrations up to 100%
Amounts used

Type	Daily amount per site
Value	9990
Units	kg/d
Remarks	Continuous release

Type	Annual amount per site
Value	999
Units	t(ons)/year
Remarks	Continuous release

Other operational conditions of use affecting environmental exposure

Emission days	100
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Conditions and measures related to municipal sewage treatment plant

Type	Onsite STP
Assumed on-site sewage treatment plant flow	10000 m3/d
Sludge treatment	Can be landfilled or incinerated, when in compliance with local regulations

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

Environmental factors not influenced by risk management

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	No discharge of substance into waste water
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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
Waste treatment methods	Acclimated biological treatment

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	1.104 Pa
Temperature associated to vapour pressure	40 C
Use frequency	Covers daily exposures up to 8 hours (unless stated differently).
Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Efficiency of at least 30%
Conditions and measures related to personal protection, hygiene and health evaluation	Wear chemically resistant gloves (tested to EN 374) in combination with 'basic' employee training Efficiency of at least 90% Use suitable eye protection
Indoor/Outdoor use	Indoor
Operational conditions	Assumes use at not more than 20°C above ambient temperature, unless stated differently

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	1.104 Pa
Temperature associated to vapour pressure	40 C
Use frequency	Covers daily exposures up to 8 hours (unless stated differently).
Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Efficiency of at least 30% Local exhaust ventilation - efficiency of at least 90%
Conditions and measures related to personal protection, hygiene and health evaluation	Wear chemically resistant gloves (tested to EN 374) in combination with 'basic' employee training Efficiency of at least 90% Use suitable eye protection
Indoor/Outdoor use	Indoor
Operational conditions	Assumes use at not more than 20°C above ambient temperature, unless stated differently

Process category(ies)	PROC3 - Use in closed batch process (synthesis or formulation)
Covers concentrations up to	100%
Physical form of product	Liquid
Vapour pressure	1.104 Pa
Temperature associated to vapour pressure	40 C
Use frequency	Covers daily exposures up to 8 hours (unless stated differently).
Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Efficiency of at least 30% Local exhaust ventilation - efficiency of at least 90%
Conditions and measures related to personal protection, hygiene and health evaluation	Wear chemically resistant gloves (tested to EN 374) in combination with 'basic' employee training Efficiency of at least 90%
Indoor/Outdoor use	Indoor
Operational conditions	Assumes use at not more than 20°C above ambient temperature, unless stated differently

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	1.104 Pa
Temperature associated to vapour pressure	40 C
Use frequency	Covers daily exposures up to 8 hours (unless stated differently).
Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Efficiency of at least 30% Local exhaust ventilation - efficiency of at least 90%
Conditions and measures related to personal protection, hygiene and health evaluation	Wear chemically resistant gloves (tested to EN 374) in combination with 'basic' employee training Efficiency of at least 90% Use suitable eye protection
Indoor/Outdoor use	Indoor
Operational conditions	Assumes use at not more than 20°C above ambient temperature, unless stated differently

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	1.104 Pa
Temperature associated to vapour pressure	40 C
Exposure duration	Avoid carrying out operation for more than 4 hours
Use frequency	Covers daily exposures up to 8 hours (unless stated differently).
Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Efficiency of at least 30% Local exhaust ventilation - efficiency of at least 90%
Conditions and measures related to personal protection, hygiene and health evaluation	Wear chemically resistant gloves (tested to EN 374) in combination with 'basic' employee training Efficiency of at least 90% Use suitable eye protection Wear a respirator providing a minimum efficiency of 90%
Indoor/Outdoor use	Indoor
Operational conditions	Assumes use at not more than 20°C above ambient temperature, unless stated differently

Process category(ies)	PROC8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities
Covers concentrations up to	100%
Physical form of product	Liquid
Vapour pressure	1.104 Pa
Temperature associated to vapour pressure	40 C
Exposure duration	Avoid carrying out operation for more than 4 hours
Use frequency	Covers daily exposures up to 8 hours (unless stated differently).

Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Efficiency of at least 30% Local exhaust ventilation - efficiency of at least 90%
Conditions and measures related to personal protection, hygiene and health evaluation	Wear chemically resistant gloves (tested to EN 374) in combination with 'basic' employee training Efficiency of at least 90% Use suitable eye protection
Indoor/Outdoor use	Indoor
Operational conditions	Assumes use at not more than 20°C above ambient temperature, unless stated differently

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	1.104 Pa
Temperature associated to vapour pressure	40 C
Use frequency	Covers daily exposures up to 8 hours (unless stated differently).
Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Efficiency of at least 30% Local exhaust ventilation - efficiency of at least 95%
Conditions and measures related to personal protection, hygiene and health evaluation	Wear chemically resistant gloves (tested to EN 374) in combination with 'basic' employee training Efficiency of at least 90%
Indoor/Outdoor use	Indoor
Operational conditions	Assumes use at not more than 20°C above ambient temperature, unless stated differently

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	1.104 Pa
Temperature associated to vapour pressure	40 C
Exposure duration	Avoid carrying out operation for more than 4 hours
Use frequency	Covers daily exposures up to 8 hours (unless stated differently).
Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Efficiency of at least 30% Local exhaust ventilation - efficiency of at least 90%
Conditions and measures related to personal protection, hygiene and health evaluation	Wear chemically resistant gloves (tested to EN 374) in combination with 'basic' employee training Efficiency of at least 90% Use suitable eye protection Wear a respirator providing a minimum efficiency of 90%
Indoor/Outdoor use	Indoor
Operational conditions	Assumes use at not more than 20°C above ambient temperature, unless stated differently

Section 3 - Exposure estimation

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

Predicted No Effect Concentration (PNEC)

Freshwater sediment	13.5 mg/kg d.w.
Marine sediment	1.35 mg/kg d.w.
Soil	3.77 mg/kg d.w.
Impact on Sewage Treatment	100 mg/l

Calculation method Used EUSES model

Environment	predicted exposure level	Risk characterisation ratio (RCR)
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Freshwater sediment	0.298 mg/kg d.w.	0.022
Marine sediment	0.187 mg/kg d.w.	0.138
Soil	0.0000432 mg/kg d.w.	0.001

Derived No Effect Level (DNEL):

Worker - dermal, long-term - systemic	10 mg/kg bw/d
Worker - inhalative, long-term - systemic	71 mg/m ³
Consumer - oral, long-term - systemic	5 mg/kg bw/d
Consumer - inhalative, long-term - systemic	17.4 mg/m ³

Calculation method

The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated

Process category(ies)	Exposure route	predicted exposure level	Risk characterisation ratio (RCR)
PROC1 - Use in closed process, no likelihood of exposure	Worker - inhalative, long-term - systemic	0.354 mg/m ³	0.005
PROC1 - Use in closed process, no likelihood of exposure	Worker - dermal, long-term - systemic	0.0034 mg/kg bw/d	0.001
PROC1 - Use in closed process, no likelihood of exposure	Worker - combined, long-term - systemic		< 0.01
PROC2 - Use in closed, continuous process with occasional controlled exposure	Worker - inhalative, long-term - systemic	0.354 mg/m ³	0.01
PROC2 - Use in closed, continuous process with occasional controlled exposure	Worker - dermal, long-term - systemic	0.0034 mg/kg bw/d	0.01
PROC2 - Use in closed, continuous process with occasional controlled exposure	Worker - combined, long-term - systemic		< 0.01
PROC3 - Use in closed batch process (synthesis or formulation)	Worker - inhalative, long-term - systemic	0.354 mg/m ³	0.01
PROC3 - Use in closed batch process (synthesis or formulation)	Worker - dermal, long-term - systemic	0.0034 mg/kg bw/d	0.01
PROC3 - Use in closed batch process (synthesis or formulation)	Worker - combined, long-term - systemic		< 0.01
PROC4 - Use in batch and other process (synthesis) where opportunity for exposure arises	Worker - inhalative, long-term - systemic	0.354 mg/m ³	0.01
PROC4 - Use in batch and other process (synthesis) where opportunity for exposure arises	Worker - dermal, long-term - systemic	0.0034 mg/kg bw/d	0.01
PROC4 - Use in batch and other process (synthesis) where opportunity for exposure arises	Worker - combined, long-term - systemic		< 0.01
PROC5 - Mixing or blending in batch processes for formulation of preparations and articles (multi-stage and/or significant contact)	Worker - inhalative, long-term - systemic	0.354 mg/m ³	0.01
PROC5 - Mixing or blending in batch processes for formulation of preparations and articles (multi-stage and/or significant contact)	Worker - dermal, long-term - systemic	0.0034 mg/kg bw/d	0.01
PROC5 - Mixing or blending in batch processes for formulation of preparations and articles (multi-stage and/or significant contact)	Worker - combined, long-term - systemic		< 0.01
PROC8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non	Worker - inhalative, long-term - systemic	0.354 mg/m ³	0.01

dedicated facilities			
PROC8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities	Worker - dermal, long-term - systemic	0.0034 mg/kg bw/d	0.01
PROC8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities	Worker - combined, long-term - systemic		< 0.01
PROC8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities	Worker - inhalative, long-term - systemic	0.354 mg/m ³	0.01
PROC8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities	Worker - dermal, long-term - systemic	0.0034 mg/kg bw/d	0.01
PROC8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities	Worker - combined, long-term - systemic		< 0.01
PROC9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing)	Worker - inhalative, long-term - systemic	0.354 mg/m ³	0.01
PROC9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing)	Worker - dermal, long-term - systemic	0.0034 mg/kg bw/d	0.01
PROC9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing)	Worker - combined, long-term - systemic		< 0.01

Section 4 - Guidance to check compliance with the exposure scenario

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.

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. Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination. Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination. Further details on scaling and control technologies are provided in SpERC factsheet (<http://cefic.org/en/reach-for-industries-libraries.html>).

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

Product Name	DOWSIL 556 COSMETIC GRADE
Chemical name	Reaction mass of 1,1,1,5,5,5-hexamethyl-3-phenyl-3((trimethylsilyl)oxy)trisiloxane and 1,1,1,7,7,7-hexamethyl-3,5-diphenyl-3,5bis((trimethylsilyl)oxy)tetrasiloxane and 1,1,1,9,9,9-hexamethyl-3,5,7-triphenyl-3,5,7tris((trimethylsilyl)oxy)pentasiloxane
Pure substance/mixture	Substance
REACH registration number	01-2119974594-23-XXXX
CAS No	70131-69-0
EC No (EU Index No)	939-487-8
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	Cosmetics, personal care products
Main user group	Worker
Environmental release category(ies)	Industrial uses: Uses of substances as such or in preparations at industrial sites
Process category(ies)	ERC2 - Formulation of preparations (mixtures) 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 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)	PC39 - Cosmetics, personal care products
Product Name	DOWSIL 556 COSMETIC GRADE
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) - ERC2 - Formulation of preparations (mixtures)

Covers concentrations up to 100%
Amounts used

Type	Daily amount per site
Value	4995
Units	kg/d
Remarks	Continuous release

Type	Annual amount per site
Value	999
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	Onsite STP
Assumed on-site sewage treatment plant flow	10000 m3/d
Sludge treatment	Can be landfilled or incinerated, when in compliance with local regulations

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

Environmental factors not influenced by risk management

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	No discharge of substance into waste water
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Control measures to prevent releases

Water	Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of Efficiency of at least 99.81%
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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
Waste treatment methods	Acclimated biological treatment

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	1.104 Pa
Temperature associated to vapour pressure	40 C
Use frequency	Covers daily exposures up to 8 hours (unless stated differently).
Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Efficiency of at least 30%
Conditions and measures related to personal protection, hygiene and health evaluation	Wear chemically resistant gloves (tested to EN 374) in combination with 'basic' employee training Efficiency of at least 90% Use suitable eye protection
Indoor/Outdoor use	Indoor
Operational conditions	Assumes use at not more than 20°C above ambient temperature, unless stated differently

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	1.104 Pa
Temperature associated to vapour pressure	40 C
Use frequency	Covers daily exposures up to 8 hours (unless stated differently).
Technical conditions and measures to control dispersion from source towards	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Efficiency of at least 30%

the worker	Local exhaust ventilation - efficiency of at least 90%
Conditions and measures related to personal protection, hygiene and health evaluation	Wear chemically resistant gloves (tested to EN 374) in combination with 'basic' employee training Efficiency of at least 90% Use suitable eye protection
Indoor/Outdoor use	Indoor
Operational conditions	Assumes use at not more than 20°C above ambient temperature, unless stated differently

Process category(ies)	PROC3 - Use in closed batch process (synthesis or formulation)
Covers concentrations up to	100%
Physical form of product	Liquid
Vapour pressure	1.104 Pa
Temperature associated to vapour pressure	40 C
Use frequency	Covers daily exposures up to 8 hours (unless stated differently).
Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Efficiency of at least 30% Local exhaust ventilation - efficiency of at least 90%
Conditions and measures related to personal protection, hygiene and health evaluation	Wear chemically resistant gloves (tested to EN 374) in combination with 'basic' employee training Efficiency of at least 90% Use suitable eye protection
Indoor/Outdoor use	Indoor
Operational conditions	Assumes use at not more than 20°C above ambient temperature, unless stated differently

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	1.104 Pa
Temperature associated to vapour pressure	40 C
Use frequency	Covers daily exposures up to 8 hours (unless stated differently).
Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Efficiency of at least 30% Local exhaust ventilation - efficiency of at least 90%
Conditions and measures related to personal protection, hygiene and health evaluation	Wear chemically resistant gloves (tested to EN 374) in combination with 'basic' employee training Efficiency of at least 90% Use suitable eye protection
Indoor/Outdoor use	Indoor
Operational conditions	Assumes use at not more than 20°C above ambient temperature, unless stated differently

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	1.104 Pa
Temperature associated to vapour pressure	40 C
Exposure duration	Avoid carrying out operation for more than 4 hours
Use frequency	Covers daily exposures up to 8 hours (unless stated differently).
Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Efficiency of at least 30% Local exhaust ventilation - efficiency of at least 90%
Conditions and measures related to personal protection, hygiene and health evaluation	Wear chemically resistant gloves (tested to EN 374) in combination with 'basic' employee training Efficiency of at least 90% Use suitable eye protection Wear a respirator providing a minimum efficiency of 90%
Indoor/Outdoor use	Indoor
Operational conditions	Assumes use at not more than 20°C above ambient temperature, unless stated differently

Process category(ies)	PROC8a - Transfer of substance or preparation (charging/discharging) from/to
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	vessels/large containers at non dedicated facilities
Covers concentrations up to	100%
Physical form of product	Liquid
Vapour pressure	1.104 Pa
Temperature associated to vapour pressure	40 C
Use frequency	Covers daily exposures up to 8 hours (unless stated differently).
Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Efficiency of at least 30% Local exhaust ventilation - efficiency of at least 90%
Conditions and measures related to personal protection, hygiene and health evaluation	Wear chemically resistant gloves (tested to EN 374) in combination with 'basic' employee training Efficiency of at least 90% Use suitable eye protection Wear a respirator providing a minimum efficiency of 90%
Indoor/Outdoor use	Indoor
Operational conditions	Assumes use at not more than 20°C above ambient temperature, unless stated differently

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	1.104 Pa
Temperature associated to vapour pressure	40 C
Use frequency	Covers daily exposures up to 8 hours (unless stated differently).
Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Efficiency of at least 30% Local exhaust ventilation - efficiency of at least 95%
Conditions and measures related to personal protection, hygiene and health evaluation	Wear chemically resistant gloves (tested to EN 374) in combination with 'basic' employee training Efficiency of at least 90% Use suitable eye protection
Indoor/Outdoor use	Indoor
Operational conditions	Assumes use at not more than 20°C above ambient temperature, unless stated differently

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	1.104 Pa
Temperature associated to vapour pressure	40 C
Use frequency	Covers daily exposures up to 8 hours (unless stated differently).
Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Efficiency of at least 30% Local exhaust ventilation - efficiency of at least 90%
Conditions and measures related to personal protection, hygiene and health evaluation	Wear chemically resistant gloves (tested to EN 374) in combination with 'basic' employee training Efficiency of at least 90% Use suitable eye protection Wear a respirator providing a minimum efficiency of 90%
Indoor/Outdoor use	Indoor
Operational conditions	Assumes use at not more than 20°C above ambient temperature, unless stated differently

Section 3 - Exposure estimation

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

**Predicted No Effect Concentration
(PNEC)**

Freshwater sediment	13.5 mg/kg d.w.
Marine sediment	1.35 mg/kg d.w.
Soil	3.77 mg/kg d.w.
Impact on Sewage Treatment	100 mg/l

Calculation method Used EUSES model

Environment	predicted exposure level	Risk characterisation ratio (RCR)
Freshwater sediment	0.373 mg/kg d.w.	0.237
Marine sediment	0.273 mg/kg d.w.	0.93
Soil	0.000807 mg/kg d.w.	0.01

Derived No Effect Level (DNEL):

Worker - dermal, long-term - systemic	10 mg/kg bw/d
Worker - inhalative, long-term - systemic	71 mg/m ³
Consumer - oral, long-term - systemic	5 mg/kg bw/d
Consumer - inhalative, long-term - systemic	17.4 mg/m ³

Calculation method The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated

Process category(ies)	Exposure route	predicted exposure level	Risk characterisation ratio (RCR)
PROC1 - Use in closed process, no likelihood of exposure	Worker - inhalative, long-term - systemic	0.354 mg/m ³	0.01
PROC1 - Use in closed process, no likelihood of exposure	Worker - dermal, long-term - systemic	0.0034 mg/kg bw/d	0.01
PROC1 - Use in closed process, no likelihood of exposure	Worker - combined, long-term - systemic		< 0.01
PROC2 - Use in closed, continuous process with occasional controlled exposure	Worker - inhalative, long-term - systemic	0.354 mg/m ³	0.01
PROC2 - Use in closed, continuous process with occasional controlled exposure	Worker - dermal, long-term - systemic	0.0034 mg/kg bw/d	0.01
PROC2 - Use in closed, continuous process with occasional controlled exposure	Worker - combined, long-term - systemic		< 0.01
PROC3 - Use in closed batch process (synthesis or formulation)	Worker - inhalative, long-term - systemic	0.354 mg/m ³	0.01
PROC3 - Use in closed batch process (synthesis or formulation)	Worker - dermal, long-term - systemic	0.0034 mg/kg bw/d	0.01
PROC3 - Use in closed batch process (synthesis or formulation)	Worker - combined, long-term - systemic		< 0.01
PROC4 - Use in batch and other process (synthesis) where opportunity for exposure arises	Worker - inhalative, long-term - systemic	0.354 mg/m ³	0.01
PROC4 - Use in batch and other process (synthesis) where opportunity for exposure arises	Worker - dermal, long-term - systemic	0.0034 mg/kg bw/d	0.01
PROC4 - Use in batch and other process (synthesis) where opportunity for exposure arises	Worker - combined, long-term - systemic		< 0.01
PROC5 - Mixing or blending in batch processes for formulation of preparations and articles (multi-stage and/or significant contact)	Worker - inhalative, long-term - systemic	0.354 mg/m ³	0.01
PROC5 - Mixing or blending in batch	Worker - dermal, long-term -	0.0034 mg/kg bw/d	0.01

processes for formulation of preparations and articles (multi-stage and/or significant contact)	systemic		
PROC5 - Mixing or blending in batch processes for formulation of preparations and articles (multi-stage and/or significant contact)	Worker - combined, long-term - systemic		< 0.01
PROC8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities	Worker - inhalative, long-term - systemic	0.354 mg/m ³	0.01
PROC8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities	Worker - dermal, long-term - systemic	0.0034 mg/kg bw/d	0.01
PROC8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities	Worker - combined, long-term - systemic		< 0.01
PROC8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities	Worker - inhalative, long-term - systemic	0.354 mg/m ³	0.01
PROC8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities	Worker - dermal, long-term - systemic	0.0034 mg/kg bw/d	0.01
PROC8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities	Worker - combined, long-term - systemic		< 0.01
PROC9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing)	Worker - inhalative, long-term - systemic	0.354 mg/m ³	0.01
PROC9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing)	Worker - dermal, long-term - systemic	0.0034 mg/kg bw/d	0.01
PROC9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing)	Worker - combined, long-term - systemic		< 0.01

Section 4 - Guidance to check compliance with the exposure scenario

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.

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. Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination. Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination. Further details on scaling and control technologies are provided in SpERC factsheet (<http://cefic.org/en/reach-for-industries-libraries.html>).

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

Product Name	DOWSIL 556 COSMETIC GRADE
Chemical name	Reaction mass of 1,1,1,5,5,5-hexamethyl-3-phenyl-3((trimethylsilyl)oxy)trisiloxane and 1,1,1,7,7,7-hexamethyl-3,5-diphenyl-3,5bis((trimethylsilyl)oxy)tetrasiloxane and 1,1,1,9,9,9-hexamethyl-3,5,7-triphenyl-3,5,7tris((trimethylsilyl)oxy)pentasiloxane
Pure substance/mixture	Substance
REACH registration number	01-2119974594-23-XXXX
CAS No	70131-69-0
EC No (EU Index No)	939-487-8
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	Cosmetics, personal care products
Main user group	Worker
Environmental release category(ies)	Industrial uses: Uses of substances as such or in preparations at industrial sites
Process category(ies)	ERC2 - Formulation of preparations (mixtures) 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 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)	PC39 - Cosmetics, personal care products
Product Name	DOWSIL 556 COSMETIC GRADE
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) - ERC2 - Formulation of preparations (mixtures)

Covers concentrations up to 100%
Amounts used

Type	Daily amount per site
Value	500
Units	kg/d
Remarks	Continuous release

Type	Annual amount per site
Value	50
Units	t(ons)/year
Remarks	Continuous release

Other operational conditions of use affecting environmental exposure

Emission days	100
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Conditions and measures related to municipal sewage treatment plant

Type	Onsite STP
Assumed on-site sewage treatment plant flow	10000 m3/d
Sludge treatment	Can be landfilled or incinerated, when in compliance with local regulations

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

Environmental factors not influenced by risk management

Local freshwater dilution factor	40
Local marine water dilution factor	100

Risk management measures

Technical onsite conditions and measures to reduce or limit discharges, air emissions	No discharge of substance into waste water
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Control measures to prevent releases

Water	Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of Efficiency of at least 93.08%
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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
Waste treatment methods	Acclimated biological treatment

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	1.104 Pa
Temperature associated to vapour pressure	40 C
Use frequency	Covers daily exposures up to 8 hours (unless stated differently).
Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Efficiency of at least 30% Local exhaust ventilation - efficiency of at least 90%
Conditions and measures related to personal protection, hygiene and health evaluation	Wear chemically resistant gloves (tested to EN 374) in combination with 'basic' employee training Efficiency of at least 90% Use suitable eye protection
Indoor/Outdoor use	Indoor
Operational conditions	Assumes use at not more than 20°C above ambient temperature, unless stated differently

Process category(ies)	PROC3 - Use in closed batch process (synthesis or formulation)
Covers concentrations up to	100%
Physical form of product	Liquid
Vapour pressure	1.104 Pa
Temperature associated to vapour pressure	40 C
Use frequency	Covers daily exposures up to 8 hours (unless stated differently).
Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Efficiency of at least 30% Local exhaust ventilation - efficiency of at least 90%

Conditions and measures related to personal protection, hygiene and health evaluation	Wear chemically resistant gloves (tested to EN 374) in combination with 'basic' employee training Efficiency of at least 90% Use suitable eye protection
Indoor/Outdoor use	Indoor
Operational conditions	Assumes use at not more than 20°C above ambient temperature, unless stated differently

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	1.104 Pa
Temperature associated to vapour pressure	40 C
Use frequency	Covers daily exposures up to 8 hours (unless stated differently).
Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Efficiency of at least 30% Local exhaust ventilation - efficiency of at least 90%
Conditions and measures related to personal protection, hygiene and health evaluation	Wear chemically resistant gloves (tested to EN 374) in combination with 'basic' employee training Efficiency of at least 90% Use suitable eye protection
Indoor/Outdoor use	Indoor
Operational conditions	Assumes use at not more than 20°C above ambient temperature, unless stated differently

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	1.104 Pa
Temperature associated to vapour pressure	40 C
Exposure duration	Avoid carrying out operation for more than 4 hours
Use frequency	Covers daily exposures up to 8 hours (unless stated differently).
Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Efficiency of at least 30% Local exhaust ventilation - efficiency of at least 90%
Conditions and measures related to personal protection, hygiene and health evaluation	Wear chemically resistant gloves (tested to EN 374) in combination with 'basic' employee training Efficiency of at least 90% Use suitable eye protection Wear a respirator providing a minimum efficiency of 90%
Indoor/Outdoor use	Indoor
Operational conditions	Assumes use at not more than 20°C above ambient temperature, unless stated differently

Process category(ies)	PROC8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities
Covers concentrations up to	100%
Physical form of product	Liquid
Vapour pressure	1.104 Pa
Temperature associated to vapour pressure	40 C
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).
Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Efficiency of at least 30% Local exhaust ventilation - efficiency of at least 90%
Conditions and measures related to personal protection, hygiene and health evaluation	Wear chemically resistant gloves (tested to EN 374) in combination with 'basic' employee training Efficiency of at least 90% Use suitable eye protection Wear a respirator providing a minimum efficiency of 90%
Indoor/Outdoor use	Indoor
Operational conditions	Assumes use at not more than 20°C above ambient temperature, unless stated differently

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	1.104 Pa
Temperature associated to vapour pressure	40 C
Use frequency	Covers daily exposures up to 8 hours (unless stated differently).
Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Efficiency of at least 30% Local exhaust ventilation - efficiency of at least 90%
Conditions and measures related to personal protection, hygiene and health evaluation	Wear chemically resistant gloves (tested to EN 374) in combination with 'basic' employee training Efficiency of at least 90% Use suitable eye protection
Indoor/Outdoor use	Indoor
Operational conditions	Assumes use at not more than 20°C above ambient temperature, unless stated differently

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	1.104 Pa
Temperature associated to vapour pressure	40 C
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).
Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Efficiency of at least 30% Local exhaust ventilation - efficiency of at least 90%
Conditions and measures related to personal protection, hygiene and health evaluation	Wear chemically resistant gloves (tested to EN 374) in combination with 'basic' employee training Efficiency of at least 90% Use suitable eye protection Wear a respirator providing a minimum efficiency of 90%
Indoor/Outdoor use	Indoor
Operational conditions	Assumes use at not more than 20°C above ambient temperature, unless stated differently

Section 3 - Exposure estimation

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

Predicted No Effect Concentration (PNEC)

Freshwater sediment	13.5 mg/kg d.w.
Marine sediment	1.35 mg/kg d.w.
Soil	3.77 mg/kg d.w.
Impact on Sewage Treatment	100 mg/l

Calculation method Used EUSES model

Environment	predicted exposure level	Risk characterisation ratio (RCR)
Freshwater sediment	3.194 mg/kg d.w.	0.237
Marine sediment	1.256 mg/kg d.w.	0.93
Soil	0.0000539 mg/kg d.w.	0.01

Derived No Effect Level (DNEL):

Worker - dermal, long-term - systemic

10 mg/kg bw/d

Worker - inhalative, long-term - systemic 71 mg/m³
Consumer - oral, long-term - systemic 5 mg/kg bw/d
Consumer - inhalative, long-term - systemic 17.4 mg/m³

Calculation method The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated

Process category(ies)	Exposure route	predicted exposure level	Risk characterisation ratio (RCR)
PROC2 - Use in closed, continuous process with occasional controlled exposure	Worker - inhalative, long-term - systemic	10.62 mg/m ³	0.15
PROC2 - Use in closed, continuous process with occasional controlled exposure	Worker - dermal, long-term - systemic	0.069 mg/kg bw/d	< 0.01
PROC2 - Use in closed, continuous process with occasional controlled exposure	Worker - combined, long-term - systemic		0.157
PROC3 - Use in closed batch process (synthesis or formulation)	Worker - inhalative, long-term - systemic	10.62 mg/m ³	0.15
PROC3 - Use in closed batch process (synthesis or formulation)	Worker - dermal, long-term - systemic	0.069 mg/kg bw/d	< 0.01
PROC3 - Use in closed batch process (synthesis or formulation)	Worker - combined, long-term - systemic		0.157
PROC4 - Use in batch and other process (synthesis) where opportunity for exposure arises	Worker - inhalative, long-term - systemic	10.62 mg/m ³	0.15
PROC4 - Use in batch and other process (synthesis) where opportunity for exposure arises	Worker - dermal, long-term - systemic	0.069 mg/kg bw/d	< 0.01
PROC4 - Use in batch and other process (synthesis) where opportunity for exposure arises	Worker - combined, long-term - systemic		0.157
PROC5 - Mixing or blending in batch processes for formulation of preparations and articles (multi-stage and/or significant contact)	Worker - inhalative, long-term - systemic	10.62 mg/m ³	0.15
PROC5 - Mixing or blending in batch processes for formulation of preparations and articles (multi-stage and/or significant contact)	Worker - dermal, long-term - systemic	0.069 mg/kg bw/d	< 0.01
PROC5 - Mixing or blending in batch processes for formulation of preparations and articles (multi-stage and/or significant contact)	Worker - combined, long-term - systemic		0.157
PROC8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities	Worker - inhalative, long-term - systemic	10.62 mg/m ³	0.15
PROC8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities	Worker - dermal, long-term - systemic	0.069 mg/kg bw/d	< 0.01
PROC8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities	Worker - combined, long-term - systemic		0.157
PROC8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities	Worker - inhalative, long-term - systemic	10.62 mg/m ³	0.15

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	< 0.01
PROC8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities	Worker - combined, long-term - systemic		0.157
PROC9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing)	Worker - inhalative, long-term - systemic	10.62 mg/m ³	0.15
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	< 0.01
PROC9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing)	Worker - combined, long-term - systemic		0.157

Section 4 - Guidance to check compliance with the exposure scenario

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.

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. Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination. Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination. Further details on scaling and control technologies are provided in SpERC factsheet (<http://cefic.org/en/reach-for-industries-libraries.html>).

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

Product Name	DOWSIL 556 COSMETIC GRADE
Chemical name	Reaction mass of 1,1,1,5,5,5-hexamethyl-3-phenyl-3((trimethylsilyl)oxy)trisiloxane and 1,1,1,7,7,7-hexamethyl-3,5-diphenyl-3,5bis((trimethylsilyl)oxy)tetrasiloxane and 1,1,1,9,9,9-hexamethyl-3,5,7-triphenyl-3,5,7tris((trimethylsilyl)oxy)pentasiloxane
Pure substance/mixture	Substance
REACH registration number	01-2119974594-23-XXXX
CAS No	70131-69-0
EC No (EU Index No)	939-487-8
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	Professional use Cosmetics, personal care products personal care products, wash off
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)	PROC0 - Other Process
Product category(ies)	PC39 - Cosmetics, personal care products
Product Name	DOWSIL 556 COSMETIC GRADE
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 100%

Amounts used

Type	Daily amount for wide dispersive uses
Value	0.005
Units	kg/d
Remarks	Continuous release

Other operational conditions of use affecting environmental exposure

Emission days	365
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Environmental factors not influenced by risk management

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	No discharge of substance into waste water
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Control measures to prevent releases

Water	Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of Efficiency of at least 93.08% If discharging to domestic sewage treatment plant, no onsite wastewater treatment required
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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
Waste treatment methods	Acclimated biological treatment

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 sediment	13.5 mg/kg d.w.
Marine sediment	1.35 mg/kg d.w.
Soil	3.77 mg/kg d.w.
Impact on Sewage Treatment	100 mg/l

Calculation method Used EUSES model

Environment	predicted exposure level	Risk characterisation ratio (RCR)
Freshwater sediment	0.332 mg/kg d.w.	0.025
Marine sediment	0.036 mg/kg d.w.	0.027
Soil	0.029 mg/kg d.w.	0.01

Derived No Effect Level (DNEL):

Worker - dermal, long-term - systemic	10 mg/kg bw/d
Worker - inhalative, long-term - systemic	71 mg/m ³
Consumer - oral, long-term - systemic	5 mg/kg bw/d
Consumer - inhalative, long-term - systemic	17.4 mg/m ³

Calculation method The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated

Remarks As no toxicological hazard was identified, no human-related (worker/consumer) exposure assessment and risk characterisation was performed.

Section 4 - Guidance to check compliance with the exposure scenario

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.

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. Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination. Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination. Further details on scaling and control technologies are provided in SpERC factsheet (<http://cefic.org/en/reach-for-industries-libraries.html>).

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

Product Name	DOWSIL 556 COSMETIC GRADE
Chemical name	Reaction mass of 1,1,1,5,5,5-hexamethyl-3-phenyl-3((trimethylsilyl)oxy)trisiloxane and 1,1,1,7,7,7-hexamethyl-3,5-diphenyl-3,5bis((trimethylsilyl)oxy)tetrasiloxane and 1,1,1,9,9,9-hexamethyl-3,5,7-triphenyl-3,5,7tris((trimethylsilyl)oxy)pentasiloxane
Pure substance/mixture	Substance
REACH registration number	01-2119974594-23-XXXX
CAS No	70131-69-0
EC No (EU Index No)	939-487-8
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	Professional use Cosmetics, personal care products personal care products, leave on
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)	PROC0 - Other Process
Product category(ies)	PC39 - Cosmetics, personal care products
Product Name	DOWSIL 556 COSMETIC GRADE
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 100%

Amounts used

Type	Daily amount per site
Value	9990
Units	kg/d
Remarks	Continuous release

Other operational conditions of use affecting environmental exposure

Emission days	100
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Environmental factors not influenced by risk management

Local freshwater dilution factor	900
Local marine water dilution factor	1000

Control measures to prevent releases

Water	If discharging to domestic sewage treatment plant, no onsite wastewater treatment required
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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 sediment	13.5 mg/kg d.w.
Marine sediment	1.35 mg/kg d.w.
Soil	3.77 mg/kg d.w.
Impact on Sewage Treatment	100 mg/l

Calculation method Used EUSES model

Environment	predicted exposure level	Risk characterisation ratio (RCR)
Freshwater sediment	0.083 mg/kg d.w.	0.01
Marine sediment	0.011 mg/kg d.w.	0.01
Soil	0.000287 mg/kg d.w.	0.01

Derived No Effect Level (DNEL):

Worker - dermal, long-term - systemic	10 mg/kg bw/d
Worker - inhalative, long-term - systemic	71 mg/m ³
Consumer - oral, long-term - systemic	5 mg/kg bw/d
Consumer - inhalative, long-term - systemic	17.4 mg/m ³

Calculation method The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated

Remarks As no toxicological hazard was identified, no human-related (worker/consumer) exposure assessment and risk characterisation was performed.

Section 4 - Guidance to check compliance with the exposure scenario

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.

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. Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination. Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination. Further details on scaling and control technologies are provided in SpERC factsheet (<http://cefic.org/en/reach-for-industries-libraries.html>).

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

Product Name	DOWSIL 556 COSMETIC GRADE
Chemical name	Reaction mass of 1,1,1,5,5,5-hexamethyl-3-phenyl-3((trimethylsilyl)oxy)trisiloxane and 1,1,1,7,7,7-hexamethyl-3,5-diphenyl-3-bis((trimethylsilyl)oxy)tetrasiloxane and 1,1,1,9,9,9-hexamethyl-3,5,7-triphenyl-3,5,7-tris((trimethylsilyl)oxy)pentasiloxane
Pure substance/mixture	Substance
REACH registration number	01-2119974594-23-XXXX
CAS No	70131-69-0
EC No (EU Index No)	939-487-8
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	Consumer use Cosmetics, personal care products personal care products, leave on
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
Product category(ies)	PC39 - Cosmetics, personal care products
Product Name	DOWSIL 556 COSMETIC GRADE
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 100%

Amounts used

Type	Daily amount for wide dispersive uses
Value	0.005
Units	kg/d

Other operational conditions of use affecting environmental exposure

Emission days	365
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Control measures to prevent releases

Water	If discharging to domestic sewage treatment plant, no onsite wastewater treatment required
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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 sediment	13.5 mg/kg d.w.
Marine sediment	1.35 mg/kg d.w.
Soil	3.77 mg/kg d.w.
Impact on Sewage Treatment	100 mg/l

Calculation method Used EUSES model

Environment	predicted exposure level	Risk characterisation ratio (RCR)
Freshwater sediment	0.083 mg/kg d.w.	0.01
Marine sediment	0.011 mg/kg d.w.	0.01
Soil	0.000287 mg/kg d.w.	0.01

Derived No Effect Level (DNEL):

Worker - dermal, long-term - systemic	10 mg/kg bw/d
Worker - inhalative, long-term - systemic	71 mg/m ³
Consumer - oral, long-term - systemic	5 mg/kg bw/d
Consumer - inhalative, long-term - systemic	17.4 mg/m ³

Calculation method The ECETOC TRA tool has been used to estimate consumer exposures unless otherwise indicated

Remarks As no toxicological hazard was identified, no human-related (worker/consumer) exposure assessment and risk characterisation was performed.

Section 4 - Guidance to check compliance with the exposure scenario

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.

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. Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination. Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination. Further details on scaling and control technologies are provided in SpERC factsheet (<http://cefic.org/en/reach-for-industries-libraries.html>).

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

Product Name	DOWSIL 556 COSMETIC GRADE
Chemical name	Reaction mass of 1,1,1,5,5,5-hexamethyl-3-phenyl-3((trimethylsilyl)oxy)trisiloxane and 1,1,1,7,7,7-hexamethyl-3,5-diphenyl-3-bis((trimethylsilyl)oxy)tetrasiloxane and 1,1,1,9,9,9-hexamethyl-3,5,7-triphenyl-3,5,7-tris((trimethylsilyl)oxy)pentasiloxane
Pure substance/mixture	Substance
REACH registration number	01-2119974594-23-XXXX
CAS No	70131-69-0
EC No (EU Index No)	939-487-8
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	Consumer use Cosmetics, personal care products personal care products, wash off
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
Product category(ies)	PC39 - Cosmetics, personal care products
Product Name	DOWSIL 556 COSMETIC GRADE
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 100%

Amounts used

Type	Daily amount for wide dispersive uses
Value	0.005
Units	kg/d

Other operational conditions of use affecting environmental exposure

Emission days	365
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Control measures to prevent releases

Water	If discharging to domestic sewage treatment plant, no onsite wastewater treatment required
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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 sediment	13.5 mg/kg d.w.
Marine sediment	1.35 mg/kg d.w.
Soil	3.77 mg/kg d.w.
Impact on Sewage Treatment	100 mg/l

Calculation method Used EUSES model

Environment	predicted exposure level	Risk characterisation ratio (RCR)
Freshwater sediment	0.797 mg/kg d.w.	0.059
Marine sediment	0.083 mg/kg d.w.	0.061
Soil	0.088 mg/kg d.w.	0.023

Derived No Effect Level (DNEL):

Worker - dermal, long-term - systemic	10 mg/kg bw/d
Worker - inhalative, long-term - systemic	71 mg/m ³
Consumer - oral, long-term - systemic	5 mg/kg bw/d
Consumer - inhalative, long-term - systemic	17.4 mg/m ³

Calculation method The ECETOC TRA tool has been used to estimate consumer exposures unless otherwise indicated

Remarks As no toxicological hazard was identified, no human-related (worker/consumer) exposure assessment and risk characterisation was performed.

Section 4 - Guidance to check compliance with the exposure scenario

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.

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. Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination. Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination. Further details on scaling and control technologies are provided in SpERC factsheet (<http://cefic.org/en/reach-for-industries-libraries.html>).

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

Product Name	DOWSIL 556 COSMETIC GRADE
Chemical name	Reaction mass of 1,1,1,5,5,5-hexamethyl-3-phenyl-3((trimethylsilyl)oxy)trisiloxane and 1,1,1,7,7,7-hexamethyl-3,5-diphenyl-3,5bis((trimethylsilyl)oxy)tetrasiloxane and 1,1,1,9,9,9-hexamethyl-3,5,7-triphenyl-3,5,7tris((trimethylsilyl)oxy)pentasiloxane
Pure substance/mixture	Substance
REACH registration number	01-2119974594-23-XXXX
CAS No	70131-69-0
EC No (EU Index No)	939-487-8
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	Industrial use
Type	Laboratory chemicals
Main user group	Worker
Environmental release category(ies)	Industrial uses: Uses of substances as such or in preparations at industrial sites
Process category(ies)	ERC6a - Industrial use resulting in manufacture of another substance (use of intermediates)
Product Name	PROC15 - Use as laboratory reagent
Sector(s) of use	DOWSIL 556 COSMETIC GRADE
	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) - ERC6a - Industrial use resulting in manufacture of another substance (use of intermediates)

Covers concentrations up to 100%
Amounts used

Type	Daily amount per site
Value	0.5
Units	kg/d
Remarks	Continuous release

Type	Annual amount per site
Value	0.01
Units	t(ons)/year
Remarks	Continuous release

Other operational conditions of use affecting environmental exposure

Emission days	20
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Conditions and measures related to municipal sewage treatment plant

Type	Onsite STP
Assumed on-site sewage treatment	2000 m3/d

plant flow	
Sludge treatment	Can be landfilled or incinerated, when in compliance with local regulations

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

Risk management measures

Technical onsite conditions and measures to reduce or limit discharges, air emissions	No discharge of substance into waste water
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Control measures to prevent releases

Water	Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of 93.08%
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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
Waste treatment methods	Acclimated biological treatment

Control of worker exposure	
Process category(ies)	PROC15 - Use as laboratory reagent
Covers concentrations up to	100%
Physical form of product	Liquid
Vapour pressure	1.104 Pa
Temperature associated to vapour pressure	40 C
Use frequency	Covers daily exposures up to 8 hours (unless stated differently).
Technical conditions and measures to control dispersion from source towards the worker	Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) Efficiency of at least 30% Handle in a fume cupboard or under extract ventilation Local exhaust ventilation - efficiency of at least 90%
Conditions and measures related to personal protection, hygiene and health evaluation	Wear chemically resistant gloves (tested to EN 374) in combination with 'basic' employee training Efficiency of at least 90% Use suitable eye protection
Indoor/Outdoor use	Indoor
Operational conditions	Assumes use at not more than 20°C above ambient temperature, unless stated differently

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 sediment	13.5 mg/kg d.w.
Marine sediment	1.35 mg/kg d.w.
Soil	3.77 mg/kg d.w.
Impact on Sewage Treatment	100 mg/l

Calculation method Used EUSES model

Environment	predicted exposure level	Risk characterisation ratio (RCR)
Freshwater sediment	1.465 mg/kg d.w.	0.108
Marine sediment	0.149 mg/kg d.w.	0.11

Soil	0.047 mg/kg d.w.	0.047
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Derived No Effect Level (DNEL):

Worker - dermal, long-term - systemic	10 mg/kg bw/d
Worker - inhalative, long-term - systemic	71 mg/m ³
Consumer - oral, long-term - systemic	5 mg/kg bw/d
Consumer - inhalative, long-term - systemic	17.4 mg/m ³

Calculation method

The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated

Process category(ies)	Exposure route	predicted exposure level	Risk characterisation ratio (RCR)
PROC15 - Use as laboratory reagent	Worker - inhalative, long-term - systemic	17.70 mg/m ³	0.249
PROC15 - Use as laboratory reagent	Worker - dermal, long-term - systemic	0.034 mg/kg bw/d	< 0.01
PROC15 - Use as laboratory reagent	Worker - combined, long-term - systemic		0.253

Section 4 - Guidance to check compliance with the exposure scenario

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.

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