

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

Revision date 07-Mar-2024

Revision Number 1

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

1.1. Product identifier

Product Code(s) 66539
Safety data sheet number 66539
Product Name 3M INDUSTRIAL CLEANER, AEROSOL

Pure substance/mixture Mixture

Contains (R)-P-MENTHA-1,8-DIENE; PROPANE; 7-METHYL-3-METHYLENEOCTA-1,6-DIENE

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

Recommended use Industrial use

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

Aerosols	Category 1 - (H222, H229)
Skin corrosion/irritation	Category 2 - (H315)
Skin sensitisation	Category 1 - (H317)
Aspiration hazard	Category 1 - (H304)
Acute aquatic toxicity	Category 1 - (H400)
Chronic aquatic toxicity	Category 1 - (H410)

2.2. Label elements

Contains (R)-P-MENTHA-1,8-DIENE; PROPANE; 7-METHYL-3-METHYLENEOCTA-1,6-DIENE

**Signal word**

Danger

Hazard statements

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H410 - Very toxic to aquatic life with long lasting effects

H222 - Extremely flammable aerosol

H229 - Pressurised container: May burst if heated

Precautionary statements

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

P251 - Do not pierce or burn, even after use

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P362 + P364 - Take off contaminated clothing and wash it before reuse

P391 - Collect spillage

P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

Additional information

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

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients**3.1 Substances**

Not applicable

3.2 Mixtures

Chemical name	Weight-%	EC No (EU Index No)	UK REACH registration number	Classification according to GB CLP (SI 2020/1567 as amended)	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
(R)-P-MENTHA-1,8-DIENE 5989-27-5	80 - 90%	227-813-5 (601-096-00-2)	-	Flam. Liq. 3 (H226) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Skin Sens. 1B (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1	-	1	-

				(H410)			
PROPANE 74-98-6	15 - 15%	200-827-9 (601-003-00-5)	-	Flam. Gas 1 (H220) Press. Gas (H280)	-	-	-
7-METHYL-3-METHYLENEOCTA-1,6-DIENE 123-35-3	< 3%	204-622-5	-	Flam. Liq. 3 (H226) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Aquatic Acute 1 (H400) Aquatic Chronic 3 (H412)	-	1	-

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

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

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

General advice	Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention. Immediate medical attention is required.
Inhalation	Aspiration into lungs can produce severe lung damage. If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, (trained personnel should) give oxygen. Get immediate medical attention. Delayed pulmonary edema may occur.
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if symptoms occur.
Skin contact	May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a doctor. Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if symptoms occur.
Ingestion	ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. Do NOT induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Rinse mouth. Never give anything by mouth to an unconscious person. Get immediate medical attention.
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

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

Symptoms	Itching. Rashes. Hives. Difficulty in breathing. Coughing and/ or wheezing. Dizziness.
Inhalation	Coughing and/ or wheezing. Difficulty in breathing. Dizziness.
Dermal	Hives. Itching. Rashes. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing. Irritating. Erythema (skin redness). Prolonged contact may cause redness and irritation.
Ingestion	Coughing and/ or wheezing Burning

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

Note to doctors	May cause sensitisation in susceptible persons. Treat symptomatically. Because of the danger of aspiration, emesis or gastric lavage should not be used unless the risk is justified by the presence of additional toxic substances.
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SECTION 5: Firefighting measures**5.1. Extinguishing media**

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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	Product is or contains a sensitiser. May cause sensitisation by skin contact. Containers may explode when heated.
Hazardous combustion products	Carbon monoxide. Carbon dioxide (CO ₂).

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. Cool containers with flooding quantities of water until well after fire is out.
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SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Personal precautions	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use non sparking handtools and explosion-proof electric equipment. Use personal protection recommended in Section 8.
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. Do not allow runoff to sewer, waterway or ground.
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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. Ventilate the area.
Methods for cleaning up	Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Clean contaminated objects and areas thoroughly observing environmental regulations. Use non-sparking tools.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. Remove contaminated clothing and shoes. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Never pierce, drill, grind, cut, saw or weld any empty container. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash thoroughly after handling. Use personal protection recommended in Section 8.

General hygiene considerations Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing. Remove contaminated clothing and protective equipment before entering eating areas. Contaminated work clothing should not be allowed out of the workplace. Take off all contaminated clothing and wash it before reuse. Keep away from food, drink and animal feedingstuffs.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children. Store away from other materials. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Keep away from heat. Avoid contact with acids and oxidising substances. See section 10 for more information.

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 No information available

Derived No Effect Level (DNEL) - General Public No information available.

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering controls	Use engineering controls to keep exposures below the OEL or DNEL. Ensure adequate ventilation. Ensure that eyewash stations and safety showers are close to the workstation location. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground and bond all lines and equipment associated with product system. All equipment should be non-sparking and explosion proof. Take action to prevent static discharges.
<u>Personal protective equipment</u>	
Eye/face protection	Wear safety glasses with side shields (or goggles). Use eye protection according to EN 166.
Hand protection	Wear suitable gloves. Polymer laminate. Gloves must conform to standard EN 374.
Skin and body protection	Wear suitable protective clothing. Long sleeved clothing.
Respiratory protection	In case of inadequate ventilation wear respiratory protection. Organic gases and vapours filter conforming to EN 14387. Type A. Type P.
General hygiene considerations	Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing. Remove contaminated clothing and protective equipment before entering eating areas. Contaminated work clothing should not be allowed out of the workplace. Take off all contaminated clothing and wash it before reuse. Keep away from food, drink and animal feedingstuffs.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Aerosol
Colour	Colourless Light Yellow
Odour	Citrus.
Odour threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Melting point / freezing point		No information available.
Initial boiling point and boiling range	154 °C	No information available.
Flammability		No information available.
Flammability Limit in Air		No information available.
Upper flammability or explosive limits	6.1%	
Lower flammability or explosive limits	0.7%	
Flash point	46 °C	CC (closed cup).
Autoignition temperature	273 °C	No information available.
Decomposition temperature		No information available.
pH		No information available.
pH (as aqueous solution)		No information available.
Kinematic viscosity		No information available.
Dynamic viscosity		No information available.
Water solubility	No data available	No information available.

Solubility(ies)		No information available.
Partition coefficient		No information available.
Vapour pressure	0.27 kPa	No information available.
Relative density	0.85	No information available.
Bulk density		No information available.
Liquid Density	0.85 g/cm3	No information available.
Relative vapour density		No information available.
Particle characteristics		No information available.
Particle Size	No information available	
Particle Size Distribution	No information available	
Explosive properties	No information available	
Oxidising properties	No information available	
9.2. Other information		
VOC content	15-20% 15-20	

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

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 None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Keep away from open flames, hot surfaces and sources of ignition.

10.5. Incompatible materials

Incompatible materials Strong acids. Strong bases. Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available. Aspiration into lungs can produce severe lung damage. May cause pulmonary edema. Pulmonary edema can be fatal. May cause irritation of respiratory tract.

Eye contact	Specific test data for the substance or mixture is not available. May cause irritation.
Skin contact	May cause sensitisation by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). Repeated exposure may cause skin dryness or cracking. Causes skin irritation.
Ingestion	Specific test data for the substance or mixture is not available. Potential for aspiration if swallowed. May cause lung damage if swallowed. Aspiration may cause pulmonary edema and pneumonitis. May be fatal if swallowed and enters airways. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms	Itching. Rashes. Hives. Difficulty in breathing. Coughing and/ or wheezing. Dizziness. Redness. May cause redness and tearing of the eyes.
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Acute toxicity

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
(R)-P-MENTHA-1,8-DIENE	= 4400 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	> 3.41 mg/l (Mouse) 4h
PROPANE	-	-	> 200000 ppm (Rat) 4h
7-METHYL-3-METHYLENEOCTA-1,6-DIENE	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	-

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

Skin corrosion/irritation	Classification based on data available for ingredients. Causes skin irritation.
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(R)-P-MENTHA-1,8-DIENE (5989-27-5)

Method	Species	Exposure route	Effective dose	Exposure time	Results
	Rabbit	Dermal			Irritant

PROPANE (74-98-6)

Method	Species	Exposure route	Effective dose	Exposure time	Results
	Rabbit	Dermal			May cause slight irritation

7-METHYL-3-METHYLENEOCTA-1,6-DIENE (123-35-3)

Method	Species	Exposure route	Effective dose	Exposure time	Results
	in vitro	Dermal			Irritant

Serious eye damage/eye irritation	No information available.
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(R)-P-MENTHA-1,8-DIENE (5989-27-5)

Method	Species	Exposure route	Effective dose	Exposure time	Results
	Rabbit	eye			May cause slight eye irritation

PROPANE (74-98-6)

Method	Species	Exposure route	Effective dose	Exposure time	Results
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	Rabbit	eye			May cause slight eye irritation
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7-METHYL-3-METHYLENEOCTA-1,6-DIENE (123-35-3)

Method	Species	Exposure route	Effective dose	Exposure time	Results
	Rabbit	eye			Causes serious eye irritation

Respiratory or skin sensitisation May cause an allergic skin reaction.

(R)-P-MENTHA-1,8-DIENE (5989-27-5)

Method	Species	Exposure route	Results
	Mouse	Dermal	Sensitising

7-METHYL-3-METHYLENEOCTA-1,6-DIENE (123-35-3)

Method	Species	Exposure route	Results
	Mouse	Dermal	Not a skin sensitiser

Germ cell mutagenicity Contains a known or suspected mutagen. Classification based on data available for ingredients. May cause genetic defects.

Component Information

(R)-P-MENTHA-1,8-DIENE (5989-27-5)

Method	Species	Results
	in vitro	Negative
	in vivo	Negative

PROPANE (74-98-6)

Method	Species	Results
OECD Test No. 473: In vitro Mammalian Chromosome Aberration Test	in vitro	Negative

7-METHYL-3-METHYLENEOCTA-1,6-DIENE (123-35-3)

Method	Species	Results
	in vitro	Not mutagenic
	in vivo	Not mutagenic

Carcinogenicity Contains a known or suspected carcinogen. Classification based on data available for ingredients. May cause cancer.

Component Information

(R)-P-MENTHA-1,8-DIENE (5989-27-5)

Method	Species	Results
	Rat	Limited evidence of a carcinogenic effect

7-METHYL-3-METHYLENEOCTA-1,6-DIENE (123-35-3)

Method	Species	Results
		Carcinogenic

Reproductive toxicity No information available.

(R)-P-MENTHA-1,8-DIENE (5989-27-5)

Method	Species	Results
	Rat	Negative NOAEL 750 mg/kg/day
		Negative NOAEL 591 mg/kg/day

7-METHYL-3-METHYLENEOCTA-1,6-DIENE (123-35-3)

Method	Species	Results
	Rat	Negative NOAEL 500 mg/kg/day
	Rat	Negative NOAEL 300 mg/kg/day
	Rat	Negative NOAEL 300 mg/kg/day

STOT - single exposure

No information available.

(R)-P-MENTHA-1,8-DIENE (5989-27-5)

Method	Species	Exposure route	Effective dose	Exposure time	Results
	similar health hazards	Inhalation			Some positive data exist, but the data are not sufficient for classification
		Oral			Not classified

PROPANE (74-98-6)

Method	Species	Exposure route	Effective dose	Exposure time	Results
	human data	Inhalation			Causes damage to organs
	human data	Inhalation			May cause drowsiness or dizziness
	human data	Inhalation			Not classified

7-METHYL-3-METHYLENEOCTA-1,6-DIENE (123-35-3)

Method	Species	Exposure route	Effective dose	Exposure time	Results
	similar health hazards	Inhalation			Some positive data exist, but the data are not sufficient for classification

STOT - repeated exposure

No information available.

(R)-P-MENTHA-1,8-DIENE (5989-27-5)

Method	Species	Exposure route	Effective dose	Exposure time	Results
	Rat	Oral	75 mg/kg	103 weeks	Negative
	Mouse	Oral	1000 mg/kg	103 weeks	Not classified
	Rat	Oral	600 mg/kg	103 weeks	Not classified

7-METHYL-3-METHYLENEOCTA-1,6-DIENE (123-35-3)

Method	Species	Exposure route	Effective dose	Exposure time	Results
	Rat	Oral	500 mg/kg	14 weeks	Some positive data exist, but the data are not sufficient for classification
	Rat	Oral	250 mg/kg	14 weeks	Some positive data exist, but the data are not sufficient for classification
	Rat	Oral	1000 mg/kg	14 weeks	Some positive data

					exist, but the data are not sufficient for classification
	Rat	Oral	2000 mg/kg	14 weeks	Not classified

Aspiration hazard May be fatal if swallowed and enters airways.

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Very toxic to aquatic life with long lasting effects.

(R)-P-MENTHA-1,8-DIENE (5989-27-5)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
	Pimephales promelas	LC50	0.720 mg/L	96 hours	
	Green Algae	ErC50	0.32 mg/L	72 hours	
	Water flea	EC50	0.307 mg/L	48 hours	
	Fish	EC10	0.302 mg/L	8 days	
	Green Algae	ErC10	0.174 mg/L	72 hours	
	Water flea	NOEC	0.153 mg/L	21 days	

7-METHYL-3-METHYLENEOCTA-1,6-DIENE (123-35-3)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
	Green Algae	ErC50	0.342 mg/L	72 hours	
	Medaka	LC50	0.92 mg/L	96 hours	
	Water flea	EC50	0.45 mg/L	48 hours	
	Green Algae	NOEC	0.23 mg/L	72 hours	
	Water flea	NOEC	0.12 mg/L	21 days	

12.2. Persistence and degradability

Persistence and degradability No information available.

(R)-P-MENTHA-1,8-DIENE (5989-27-5)

Method	Exposure time	Value	Results
OECD Test No. 301C: Ready Biodegradability: Modified MITI Test (I) (TG 301 C)	14 days	98% Biodegradation	Readily biodegradable
OECD Test No. 301A: Ready Biodegradability: DOC Die-Away Test (TG 301 A)	14 days	>93.8% Biodegradation	Readily biodegradable

7-METHYL-3-METHYLENEOCTA-1,6-DIENE (123-35-3)

Method	Exposure time	Value	Results
OECD Test No. 301D: Ready Biodegradability: Closed Bottle Test (TG 301 D)	28 days	76% Biodegradation	

12.3. Bioaccumulative potential

Bioaccumulation

Component Information

Chemical name	Partition coefficient
(R)-P-MENTHA-1,8-DIENE	4.57
PROPANE	2.36
7-METHYL-3-METHYLENEOCTA-1,6-DIENE	4.82

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

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

Chemical name	PBT and vPvB assessment
(R)-P-MENTHA-1,8-DIENE	No information available The substance is not PBT / vPvB
PROPANE	The substance is not PBT / vPvB
7-METHYL-3-METHYLENEOCTA-1,6-DIENE	The substance is not PBT / vPvB

12.6. Other adverse effects

No information available.

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

Waste from residues/unused products Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.

Contaminated packaging Do not reuse empty containers.

Other information Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: Transport information**IATA**

14.1 UN number or ID number UN1950
14.2 UN proper shipping name AEROSOLS
14.3 Transport hazard class(es) 2.1
14.4 Packing group Not regulated
14.5 Environmental hazards Yes
14.6 Special precautions for user
Special Provisions A145, A167, A802
ERG Code 10L

IMDG

14.1 UN number or ID number UN1950
UN proper shipping name AEROSOLS
14.3 Transport hazard class(es) 2.1
14.4 Packing group Not regulated
14.5 Environmental hazards Yes
14.6 Special precautions for user
Special Provisions 63,190, 277, 327, 344, 381, 959
EmS-No F-D, S-U
14.7 Maritime transport in bulk according to IMO instruments No information available

RID

14.1 UN number or ID number	UN1950
14.2 UN proper shipping name	AEROSOLS
14.3 Transport hazard class(es)	2.1
14.4 Packing group	Not regulated
14.5 Environmental hazards	Yes
14.6 Special precautions for user	
Special Provisions	190, 327, 344, 625
Classification code	5F

ADR

14.1 UN number or ID number	UN1950
14.2 UN proper shipping name	AEROSOLS
14.3 Transport hazard class(es)	2.1
14.4 Packing group	Not regulated
14.5 Environmental hazards	Yes
14.6 Special precautions for user	
Special Provisions	190, 327, 344, 625
Classification code	5F
Tunnel restriction code	(D)

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

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

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

Persistent Organic Pollutants

Not applicable

Export Notification requirements

Not applicable

Dangerous substance category per COMAH Regulations 2015 (as amended)

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

Named dangerous substances per COMAH Regulations 2015 (as amended)

Not applicable

The Ozone-Depleting Substances Regulations 2015

Not applicable

The Biocidal Products Regulations 2001 (as amended)

Not applicable

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

Not applicable

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

Not applicable

International Inventories**TSCA**

Contact supplier for inventory compliance status

DSL/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
KECL	Contact supplier for inventory compliance status
PICCS	Contact supplier for inventory compliance status
AIIC	Contact supplier for inventory compliance status
NZIoC	Contact supplier for inventory compliance status

Legend:

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

15.2. Chemical safety assessment

Chemical Safety Report No information available

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**

H220 - Extremely flammable gas
 H226 - Flammable liquid and vapour
 H280 - Contains gas under pressure; may explode if heated
 H304 - May be fatal if swallowed and enters airways
 H315 - Causes skin irritation
 H317 - May cause an allergic skin reaction
 H400 - Very toxic to aquatic life
 H410 - Very toxic to aquatic life with long lasting effects

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 ***Indicates updated data since last publication

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)
EPA (Environmental Protection Agency)
Acute Exposure Guideline Level(s) (AELG(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)
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

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

Disclaimer

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End of Safety Data Sheet