

According to directive 1907/2006/EC,2020/878
Version 6.0 Revision date: 25-07-2024
Trade name: XIAMETER™ RTV-3011 Thixo Additive

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

1.1 Product identification:

Product name: XIAMETER™ RTV-3011 Thixo Additive
Chemical name of the substance: Dimethylsiloxane, ethoxylated, 3-hydroxypropyl-terminated
CAS No: 102783-01-7
EC No: 600-355-7

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

Usage: Rheology modifier.
Uses advised against: Not suitable for DIY.

1.3 Details of the supplier of the safety data sheet:

Responsible distributor : ASSYST bvba / A.S.O.W. bvba
Hellegatstraat 13a
2590 Berlaar
Belgium
Tel: +32 495 50 61 14 / +32 496 83 70 27
Website: www.assyst.org / www.artsuppliesonweb.com
Email: ao@assyst.org / vera.opsommer@assyst.org

1.4 Emergency phone number:

For Belgium:

Call the **Poison Control Centre (070 245 245 - free)**, if not available: **02 264 96 30** (normal rate) or your doctor. In life-threatening situations, always call the European emergency number **112**.

NHS 24 Direct

For help from a GP, visit your GP surgery's website, use an online service to contact your GP, or call the surgery. **For urgent medical help**, use the NHS 111 online service, or **call 111** if you are unable to get help online. **For life-threatening emergencies, call 999** for an ambulance. There is more information about getting medical help on the NHS website.

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture:

Classification according to directive (EC) No 1272/2008 and its amendments.

Reproductive toxicity - Category 2 - H361f
(Chronic) Aquatic long-term hazard - Category 1 - H410
For the full text of H phrases referred to in this section, see section 16.

2.2 Labelling elements:

Labelling according to regulation (EC) No 1272/2008 [CLP/GHS]:



Hazard pictograms:

Signal word:

WARNING

Hazard statements

H361f: Suspected of damaging fertility.
H410: Very toxic to aquatic organisms, with long-lasting effects.

Safety recommendations

P201 Before using, refer to the special instructions.
P273 Avoid discharge into the environment.

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P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.
P308 + P313 AFTER (possible) exposure: consult a doctor.
P391 Clean up any leaks/spills.
P501 Dispose of contents/container to an authorised waste disposal company.

2.3 Other hazards:

This product contains octamethylcyclotetrasiloxane (D4) identified by the ECHA Member State Committee as meeting the PBT and vPvB criteria set out in Annex XIII to Regulation (EC) No 1907/2006. See section 12 for additional information.

This product contains decamethylcyclopentasiloxane (D5) identified by the ECHA Member State Committee as meeting the vPvB criteria set out in Annex XIII to Regulation (EC) No 1907/2006. See section 12 for additional information.

This product contains dodecamethylcyclohexasiloxane (D6) identified by the ECHA Member State Committee as meeting the vPvB criteria set out in Annex XIII to Regulation (EC) No 1907/2006. See section 12 for additional information.

Endocrine-disrupting properties

Environment:

The substance/mixture does not contain components believed to have endocrine-disrupting properties according to REACH article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at level 0.1% or higher.

Human health:

The substance/mixture does not contain components believed to have endocrine-disrupting properties according to REACH article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at level 0.1% or higher.

SECTION 3: Composition and information on ingredients

3.1 Substances:

Description:

This product is a substance.

Substance name: Dimethylsiloxane, ethoxylated, 3-hydroxypropyl-terminated

CAS No: 102783-01-7

EC No: 600-355-7

CAS No. EC No. Index no. REACH registration number	Concentration	Component	Classification : REGULATION (EC) No 1272/2008
CAS NR. 556-67-2 EC No 209-136-7 Index no. 014-018-00-1 REACH No : -	>= 3,42 - <= 8,05 %	octamethylcyclotetrasiloxane [D4]	Flam. Liq. 3; H226 Repr. 2; H361f Aquatic Chronic 1; H410 <u>M-factor (Chronic aquatic toxicity):</u> 10 <u>Acute toxicity estimates</u> <u>Acute oral toxicity:</u> > 4 800 mg/kg <u>Acute toxicity by inhalation:</u> 36 mg/l, 4 h, dust/mist <u>Acute dermal toxicity:</u> > 2 400 mg/kg
PBT and vPvB dust			
CAS No. 541-02-6 EC No 208-764-9	>= 1,7 - <= 2,61 %	Decamethylcyclopentasiloxane	Not classified

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Index no. - REACH No : -			<u>Acute toxicity estimates</u> <u>Acute oral toxicity:</u> > 24 134 mg/kg <u>Acute toxicity by inhalation:</u> 8.67 mg/l, 4 h, dust/mist <u>Acute dermal toxicity:</u> > 2 000 mg/kg
CAS No 540-97-6 EC No 208-762-8 Index no. - REACH No : -	>= 0,9 - <= 1,31 %	Dodecamethylcyclohexasiloxane	Unclassified <u>Acute toxicity estimates</u> <u>Acute oral toxicity:</u> > 2 000 mg/kg <u>Acute dermal toxicity:</u> > 2 000 mg/kg
Substances with workplace exposure limits			
CAS No. 25322-68-3 EC No. polymer Index no. - REACH no.:	>= 3,0 - <= 5,0 %	Polyethylene glycol	Unclassified <u>Acute toxicity estimates</u> <u>Acute oral toxicity:</u> > 10 000 mg/kg <u>Acute toxicity by inhalation:</u> > 2,86 mg/l, 4 h, dust/mist <u>Acute dermal toxicity:</u> > 20 000 mg/kg

For the full text of H phrases referred to in this section, see section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures:

General advice:

If there is an exposure risk, refer to section 8 for specific personal protective equipment.

Inhalation:

Get the person into fresh air and let them breathe comfortably; consult a doctor.

Skin touch:

Wash up with plenty of water.

Eye contact:

Rinse eyes thoroughly with water for several minutes.

Remove contact lenses after the first 1-2 minutes and continue rinsing for several minutes.

Consult a doctor if side effects occur, preferably an ophthalmologist

Ingestion:

Rinse mouth with water.

No urgent medical treatment needed.

4.2 Main acute and delayed symptoms and effects:

Suspected of damaging fertility.

4.3 Indication of immediate medical attention and special treatment required:

Notes for the doctor:

No specific antidote.

Treatment of exposure should take into account the patient's symptoms and clinical condition.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media:

Suitable extinguishing agents:

Alcohol-resistant foam. Dry sand.

Extinguishing agents not suitable from a safety point of view:

Strong water jet.

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Do not use a direct water jet.

5.2 Special hazards arising from the substance or mixture:

Hazardous combustion products:

Silicon oxide. Carbon oxides. Formaldehyde.

Unusual fire and explosion hazards:

Fire recoil possible over a considerable distance.

Exposure to combination products can be hazardous to health.

Closed vessels can rupture due to pressure build-up when exposed to fire or extreme heat.

Fire burns harder than expected.

Vapours can form explosive mixtures with air.

5.3 Advice for firefighters:

Fire-fighting measures:

Use water spray to cool unopened containers.

Evacuate.

Collect contaminated firefighting water separately.

It should not drain to the sewerage system.

Combustion residues and contaminated firefighting water must be disposed of according to local regulations.

If possible, prevent the run-off of extinguishing water.

Extinguishing water, which has run off, can cause damage to the environment.

Use water spray to cool vessels exposed to fire and the area involved in the fire until the fire is extinguished and the danger of re-ignition has passed.

Do not use a steady stream of water as it may splatter and spread the fire.

Use extinguishing agents suitable for the local conditions and environment.

Remove undamaged holder from fire area if it is safe to do so.

Special protective equipment for firefighters:

In case of fire, wear a compressed air mask.

Use personal protective equipment.

SECTION 6: Measures in case of accidental release of the substance or mixture

6.1 Personal precautions, protective equipment and emergency procedures:

Remove all ignition sources.

Use personal protective equipment.

Follow the advice on working safely with the substance and recommendations on personal protective equipment.

6.2 Environmental precautions:

Do not release the product into the aquatic environment above the legal limits.

Avoid further leaks and spills if it is safe to do so.

Prevent spreading over a large area (e.g. by containment or oil baffles).

Collect and dispose of contaminated cleaning water.

In case of significant leaks that cannot be contained, the local government should be notified.

6.3 Methods and materials for containment and cleaning:

Only use non-sparking tools.

Absorb in inert absorbent material.

Precipitate gases/fumes/mists using a water spray jet.

Wipe with absorbent material or pick it up and dispose of in a lidded bin.

Local or national regulations may apply both to leaks or disposal of the material, and to the materials used in cleaning operations.

You must determine which regulations apply.

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To prevent material from spreading, proper barricades or other appropriate containment should be used for large spills.

If material can be pumped out, the collected material should be stored in appropriate containers. Dispose of saturated absorbent or cleaning material properly, as spontaneous heating may occur.

6.4 Reference to other sections:

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage:

7.1 Precautions for safe handling of the substance or mixture:

Avoid inhalation of vapour or mist.

Avoid contact with eyes.

Do not swallow.

Avoid persistent or repeated contact with skin.

Keep in tightly closed container.

Keep away from heat and ignition sources.

Take measures against static electricity discharges.

Prevent leaks and spread into the environment and minimise the amount released.

Use according to common rules and practices related to industrial hygiene and safety.

EMPTY DRUMS CAN BE DANGEROUS.

Empty drums contain product residues.

Follow all product safety and label regulations, even if the vessel is empty.

Use with adequate exhaust ventilation.

See Technical measures under section MEASURES TO CONTROL EXPOSURE/PERSONAL PROTECTION.

7.2 Conditions for safe storage, including incompatibilities:

Store in correctly labelled containers.

Keep behind lock.

Store tightly closed.

Store in a cool and well-ventilated place.

Store according to relevant national regulations.

Keep away from heat and ignition sources.

Do not store with the following product types:

Strong oxidising agents. Explosives. Gases.

Unsuitable materials for containers:

Nothing known.

7.3 Specific end use:

Refer to the technical data sheet of this product for more information.

SECTION 8: Exposure controls/personal protection measures

8.1 Control parameters:

If exposure limits exist, they are listed below. If no exposure limits are shown, no values apply.

Component	Regulation	Type of statement	Value
Octamethylcyclotetrasiloxane	US WEEL	TWA	10 ppm
Decamethylcyclopentasiloxane	US WEEL	TWA	10 ppm
Polyethylene glycol	US WEEL	TWA aerosol	10 mg/m3

Recommended observation procedures

Monitoring the concentration of substances in the breathing zone of workers or in the general work area may be necessary to confirm compliance with occupational exposure limits and adequacy of exposure.

For some substances, biological monitoring may also be appropriate.

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Validated exposure measurement methods should be applied by a competent person and samples should be analysed by an accredited laboratory.

Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace exposure - Measurement of inhalation exposure to chemicals - Strategy to comply with occupational exposure limits). European Standard EN 14042 (Workplace atmospheres - Directive on the application and use of procedures for the assessment of exposure to chemical and biological agents). European Standard EN 482 (Workplace atmosphere - General requirements for the implementation of procedures for measuring chemical substances).

Reference to national guidelines on methods for the determination of hazardous substances is also required.

Examples of sources of recommended exposure measurement - methods are given below or contact the supplier.

Further national methods may be available.

National Institute of Occupational Safety and Health (NIOSH), USA: Manual of Analytical Methods.

Occupational Safety and Health Administration (OSHA), USA: sampling and analytical methods.

Health and Safety Executive (HSE), UK: methods for determining hazardous substances.

Institut für Arbeitsschutz Deutsche Gesetzlichen Unfallversicherung (IFA), Germany.

L'Institut National de Recherche et de Sécurité, (INRS), France.

Derived doses without effect

Octamethylcyclotetrasiloxane [D4]

Employees

Acute - systemic effects		Acute - local effects		Long-term - systemic effects		Long-term - local effects	
Skin	Inhalation	Skin	Inhalation	Skin	Inhalation	Skin	Inhalation
n.a.	n.a.	n.a.	n.a.	n.a.	73 mg/m3	n.a.	73 mg/m3

Consumers

Acute - systemic effects			Acute - local effects		Long-term - systemic effects			Long-term - local effects	
Skin	Inhalation	Oral	Skin	Inhalation	Skin	Inhalation	Oral	Skin	Inhalation
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	13 mg/m3	3.7 mg/kg bw/day	n.a.	13 mg/m3

Decamethylcyclopentasiloxane

Employees

Acute - systemic effects		Acute - local effects		Long-term - systemic effects		Long-term - local effects	
Skin	Inhalation	Skin	Inhalation	Skin	Inhalation	Skin	Inhalation
n.a.	n.a.	n.a.	n.a.	n.a.	97.3 mg/m3	n.a.	24.2 mg/m3

Consumers

Acute - systemic effects			Acute - local effects		Long-term - systemic effects			Long-term - local effects	
Skin	Inhalation	Oral	Skin	Inhalation	Skin	Inhalation	Oral	Skin	Inhalation
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	17.3 mg/m3	5 mg/kg bw/day	n.a.	4.3 mg/m3

Dodecamethylcyclohexasiloxane

Employees

Acute - systemic effects		Acute - local effects		Long-term - systemic effects		Long-term - local effects	
Skin	Inhalation	Skin	Inhalation	Skin	Inhalation	Skin	Inhalation
n.a.	n.a.	n.a.	6.1 mg/m3	n.a.	n.a.	n.a.	1.22 mg/m3

Consumers

Acute - systemic effects			Acute - local effects		Long-term - systemic effects			Long-term - local effects	
Skin	Inhalation	Oral	Skin	Inhalation	Skin	Inhalation	Oral	Skin	Inhalation
n.a.	n.a.	n.a.	n.a.	1.5 mg/m3	n.a.	n.a.	n.a.	n.a.	0.3 mg/m3

Predicted concentration without effect

Octamethylcyclotetrasiloxane [D4]

Compartment	PNEC
Freshwater	0.0015 mg/l

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Seawater	0.00015 mg/l
Freshwater deposition	3 mg/kg dry weight (d.g.)
Sea deposits	0.3 mg/kg dry weight (d.g.)
Bottom	0.84 mg/kg dry weight (d.g.)
Sewage treatment plant	10 mg/l
Oral	41 mg/kg food

Decamethylcyclopentasiloxane

Compartment	PNEC
Freshwater	> 0.0012 mg/l
Seawater	> 0.00012 mg/l
Sewage treatment plant	10 mg/l
Freshwater deposition	11 mg/kg
Sea deposits	1.1 mg/kg
Bottom	> 10 mg/l
Oral	16 mg/kg food

Dodecamethylcyclohexasiloxane

Compartment	PNEC
Freshwater deposition	13.5 mg/kg dry weight (d.g.)
Sea deposits	1.35 mg/kg dry weight (d.g.)
Oral	66.7 mg/kg food

8.2 Exposure control measures:

Technical controls:

Provide local exhaust ventilation, or other technical measures to keep atmospheric concentrations below limit values.

If no limits exist, general ventilation should be sufficient for most operations.

Local extraction may be necessary for some work.

Personal protection devices:

Eye/face protection:

Use safety glasses with side shields.

Safety glasses with side shields must comply with standard EN 166 or a similar standard.

Skin protection

Hand protection:

Use non-permeable gloves for this substance if persistent or regularly repeated contact may occur. Use chemical-resistant gloves, classified under EN374: gloves for protection against chemicals and micro-organisms.

Use impervious gloves even for short exposures if hands have abrasions or cuts.

Examples of barrier glove materials to be preferred:

Butyl rubber Ethyl vinyl alcohol laminate ("EVAL").

Examples of acceptable barrier glove materials include:

Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyvinyl chloride ("PVC" or "vinyl").

When prolonged or frequently repeated contact may occur, gloves with a protection class 4 or higher (breakthrough time greater than 120 minutes according to EN 374) are recommended.

When only brief contact is expected, gloves with a protection class 1 or higher (breakthrough time greater than 10 minutes according to EN 374) are recommended.

Glove thickness alone is not a good indicator of the level of protection a glove gives against a chemical, as this level of protection is also highly dependent on the specific composition of the material the glove is made of.

The thickness of the glove, depending on the material model and type, should generally be more than 0.35 mm. to provide sufficient protection during continuous and regular contact with the fabric.

As an exception to this general rule, multilayer laminate gloves are known to provide further protection at thicknesses below 0.35 mm.

Other glove materials with a thickness less than 0.35 mm can provide sufficient protection when only brief contact is expected.

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ATTENTION: The selection of specific gloves for a given application and time of use in a workplace should also take into account all other relevant factors at the workplace, such as (but not limited to): other chemicals that may be handled, physical requirements (protection against cutting/ piercing, dexterity, thermal protection), possible physical reactions to the glove material, and the instructions/specifications of the glove supplier.

Other protection:

Wear clean body-covering clothes with long sleeves.

Respiratory protection:

A respirator should be worn when there is a risk of exceeding exposure limits.

If no exposure limits or guidelines exist, use an approved respirator if adverse effects (such as respiratory irritation) or discomfort occur, or when indicated by your risk assessment process.

Respiratory protection should not be required for most conditions.

In case of discomfort use and approved air purifying device.

Use EC-approved respirator: Filter for organic vapours, type A (boiling point > 65°C, must comply with standard EN 14387).

Managing environmental exposure

See SECTION 7: Handling and storage and SECTION 13: Instructions for disposal measures to prevent overexposure to the environment during use and waste disposal.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Prevent

Physical state:	liquid
Colour:	Amber
Odour:	Characteristic
Odour threshold:	No data available
pH:	No data available
Melting point/range:	No data available
Freezing point:	Not implemented
Boiling point (760 mmHg)	:> 65 °C
Flash point:	Tag closed cup 67°C
Flammability (solid, gas):	Not applicable
Flammability (liquids):	Not performed
Lower explosion limit:	No data available
Upper explosion limit:	No data available
Vapour pressure:	No data available
Relative vapour density (air = 1):	No data available
Relative density (water = 1):	1.036

Solubility

Solubility in water:	Not performed
Partition coefficient: n-octanol/water:	Not carried out
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Kinematic viscosity:	310 cSt

Particle characteristics

Particle size:	Not applicable, liquid
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9.2 Other information

Molecular weight:	No data available
Explosive properties:	Non-explosive

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Oxidising properties:	The substance or mixture is not classified as oxidising.
Self-heating substances:	The substance or mixture is not classified as self-heating.
Corrosion rate of metal:	Not corrosive to metals
Evaporation rate (Butyl acetate = 1):	No data available

NOTE :The physical and chemical data shown in section 9 are typical values for this product and are not intended as product specifications.

SECTION 10: Stability and reactivity

10.1 Reactivity:

Not classified as hazardous due to reactivity.

10.2 Chemical Stability:

Stable under normal conditions.

10.3 Potential Hazardous Reactions:

May react with strongly oxidising substances.
Vapours may form explosive mixture with air.

10.4 Conditions to avoid:

Heat, flames and sparks.

10.5 Chemically Interacting Materials:

Avoid contact with oxidising substances.

10.6 Hazardous Decomposition Products:

Decomposition products may include - among others - the following: Formaldehyde. Aldehyde. Alcohols. Ethers. Organic acids.

SECTION 11: Toxicological information

Toxicological information is displayed in this section when available.

11.1 Information on toxicological effects:

Information on likely routes of exposure

Inhalation, Eye contact, Skin contact, Ingestion.

Acute toxicity (represents short-term exposures with immediate effects - no chronic/delayed effects known unless otherwise stated)

Endpoints acute toxicity:

Acute oral toxicity

Information for the product:

Very low toxicity if swallowed.

Swallowing small amounts is unlikely to cause harm.

As product. The oral LD50 of a single dose has not been determined.

Based on information for component(s):

LD50, Rat, > 2 000 mg/kg estimated

Information for components:

Octamethylcyclotetrasiloxane [D4]

LD50, Rat, male, > 4 800 mg/kg.

No deaths were observed at this concentration.

Decamethylcyclopentasiloxane

LD50, Rat, male and female, > 24 134 mg/kg

Dodecamethylcyclohexasiloxane

LD50, Rat, male and female, > 2 000 mg/kg.

No deaths were observed at this concentration.

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Polyethylene glycol

Typical for products of this family: LD50, Rat, > 10 000 mg/kg estimated

Acute dermal toxicity

Information for the product:

Prolonged skin contact is unlikely to result in absorption of harmful amounts.

As product. The dermal LD50 has not been determined.

Based on the information for a similar product:

LD50, Rabbit, > 2 000 mg/kg estimated

Information for components:

Octamethylcyclotetrasiloxane [D4]

LD50, Rat, male and female, > 2 400 mg/kg.

No deaths were observed at this concentration.

Decamethylcyclopentasiloxane

LD50, Rabbit, male and female, > 2 000 mg/kg.

No deaths were observed at this concentration.

Dodecamethylcyclohexasiloxane

LD50, Rabbit, male and female, > 2 000 mg/kg

Polyethylene glycol

Typical for products of this family: LD50, Rabbit, > 20 000 mg/kg

Acute toxicity by inhalation

Information for the product:

It is unlikely that short-term exposure (a few minutes) would cause adverse effects.

Overexposure may lead to respiratory irritation.

As product. The LC50 was not determined.

Information for components:

Octamethylcyclotetrasiloxane [D4]

LC50, Rat, male and female, 4 h, dust/mist, 36 mg/l Guideline test OECD 403

Decamethylcyclopentasiloxane

LC50, Rat, male and female, 4 h, dust/mist, 8.67 mg/l

Dodecamethylcyclohexasiloxane

The LC50 was not determined.

Polyethylene glycol

Typical for products of this family: LC50, Rat, 4 h, dust/mist, > 2.86 mg/l.

No deaths were observed at this concentration.

Skin corrosion/irritation

Information for the product:

Based on information for component(s):

Prolonged contact may cause mild skin irritation with local redness.

May cause more serious effects if skin has abrasions or cuts.

Information for components:

Octamethylcyclotetrasiloxane [D4]

Short-term contact with the skin is essentially non-irritant.

Decamethylcyclopentasiloxane

Prolonged contact is essentially non-irritating to the skin.

Dodecamethylcyclohexasiloxane

Essentially non-irritating to the skin.

Polyethylene glycol

Prolonged exposure is unlikely to cause significant skin irritation.

May cause more serious effects if skin has abrasions or cuts.

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Serious eye damage/eye irritation

Information for the product:

Based on information for component(s):

May cause transient mild eye irritation.

Information for components:

Octamethylcyclotetrasiloxane [D4]

Essentially non-irritating to the eyes.

Decamethylcyclopentasiloxane

Essentially non-irritating to the eyes.

Dodecamethylcyclohexasiloxane

May cause transient mild eye irritation.

Corneal damage is unlikely.

Polyethylene glycol

May cause transient mild eye irritation.

Corneal damage is unlikely.

Sensitisation

Information for the product:

In case of skin hypersensitivity:

No relevant data found.

Respiratory sensitisation:

No relevant data found.

Information for components:

Octamethylcyclotetrasiloxane [D4]

Did not cause allergic skin reactions when tested with guinea pigs.

Respiratory sensitisation:

No relevant data found.

Decamethylcyclopentasiloxane

No potential for contact allergy in mice was demonstrated.

Respiratory sensitisation:

No relevant data found.

Dodecamethylcyclohexasiloxane

Did not cause allergic skin reactions when tested with guinea pigs.

Respiratory sensitisation:

No relevant data found.

Polyethylene glycol

For this group of products:

Did not cause allergic skin reactions in human testing.

For this family of products, sensitisation studies with the Guinea pig gave negative results.

Respiratory sensitisation:

No relevant data found.

Specific target organ system toxicity (single exposure)

Information for the product:

Product test dates not available.

Information for components:

Octamethylcyclotetrasiloxane [D4]

Evaluation of available data suggests that this material is not an STOT-SE toxin.

Decamethylcyclopentasiloxane

Evaluation of available data suggests that this material is not an STOT-SE toxin.

Dodecamethylcyclohexasiloxane

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Evaluation of available data suggests that this material is not an STOT-SE toxin.

Polyethylene glycol

Evaluation of available data suggests that this material is not an STOT-SE toxin.

Inhalation hazard

Information for the product:

Based on available information, no inhalation hazard could be identified.

Information for components:

Octamethylcyclotetrasiloxane [D4]

Material is not classified as an inhalation hazard based on insufficient data, but low-viscosity materials may be inhaled into the lungs during ingestion or vomiting.

Decamethylcyclopentasiloxane

Based on the physical properties, inhalation hazards are unlikely to exist.

Dodecamethylcyclohexasiloxane

Based on the physical properties, inhalation hazards are unlikely to exist.

Polyethylene glycol

Based on the physical properties, inhalation hazards are unlikely to exist.

Chronic toxicity (represents long-term repeated dose exposure resulting in chronic/delayed effects - no immediate effects known unless otherwise stated)

Specific target organ system toxicity (repeated exposure)

Information for the product:

Product test dates not available.

Information for components:

Octamethylcyclotetrasiloxane [D4]

In animals, effects to the following organs have been observed:

Kidney.

Liver.

Airways.

Female reproductive organs.

Decamethylcyclopentasiloxane

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

Dodecamethylcyclohexasiloxane

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

Polyethylene glycol

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

Recent findings of kidney arrest and death in burn victims, in addition to some burn studies in laboratory animals, suggest that polyethylene glycol may have been a factor.

Local application of this material may not be appropriate for severely burned patients.

Carcinogenicity

Information for the product:

Product test dates not available.

Information for components:

Octamethylcyclotetrasiloxane [D4]

Results of an inhalation vapour exposure study repeated in octamethylcy rats after two years.

Decamethylcyclopentasiloxane

Results of a post-inhalation vapour exposure study repeated after two years in rats regarding decamethylcyclopentasiloxane (D5) indicated effects (uterine endometrial tumours) in female rats. This finding occurred only at the highest exposure dose (160 ppm). Research to date has not shown whether the effect occurs via a pathway relevant to humans.

Dodecamethylcyclohexasiloxane

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No relevant data found.

Polyethylene glycol

Polyethylene glycols have not caused cancer in long-term studies on animals.

Teratogenicity

Suspected of damaging fertility.

Information for the product:

Product test dates not available.

Information for components:

Octamethylcyclotetrasiloxane [D4]

Did not cause birth defects or other foetal effects in laboratory animals.

Decamethylcyclopentasiloxane

Did not cause birth defects or other foetal effects in laboratory animals.

Dodecamethylcyclohexasiloxane

Did not cause birth defects or other foetal effects in laboratory animals.

Polyethylene glycol

Did not cause birth defects or other foetal effects in laboratory animals.

Reproductive toxicity

Suspected of damaging fertility.

Information for the product:

Product test dates not available.

Information for components:

Octamethylcyclotetrasiloxane [D4]

In animal studies, effects on reproduction were observed only at doses that caused significant toxicity in the parents.

In studies on animals, the product was shown to impair fertility.

Decamethylcyclopentasiloxane

In animal studies, the product had no effects on reproduction.

Dodecamethylcyclohexasiloxane

In animal studies, the product had no effects on reproduction.

Polyethylene glycol

In animal studies, the product had no effects on reproduction.

Mutagenicity

Information for the product:

Product test dates not available.

Information for components:

Octamethylcyclotetrasiloxane [D4]

Results of genetic toxicity studies in vitro were negative.

Genetic toxicity studies on animals were negative.

Decamethylcyclopentasiloxane

Results of genetic toxicity studies in vitro were negative.

Genetic toxicity studies on animals were negative.

Dodecamethylcyclohexasiloxane

Results of genetic toxicity studies in vitro were negative.

Genetic toxicity studies on animals were negative.

Polyethylene glycol

Results of genetic toxicity studies in vitro were negative.

Genetic toxicity studies on animals were negative.

11.2 Information on other hazards

Endocrine-disrupting properties

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The substance/mixture does not contain any components believed to have endocrine-disrupting properties according to REACH article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at level 0.1% or higher.

Information for components:

octamethylcyclotetrasiloxane [D4]

This substance is not considered to have endocrine-disrupting properties according to Article 57(f) of REACH, Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

Decamethylcyclopentasiloxane

This substance is not considered to have endocrine-disrupting properties according to Article 57(f) of REACH, Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

Dodecamethylcyclohexasiloxane

This substance is not considered to have endocrine-disrupting properties according to Article 57(f) of REACH, Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

Polyethylene glycol

This substance is not considered to have endocrine-disrupting properties according to Article 57(f) of REACH, Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

SECTION 12: Ecological information

Ecotoxicological information appears in this section when these data are available.

12.1 Toxicity:

Octamethylcyclotetrasiloxane [D4]

Acute toxicity to fish

It is not expected to be acutely toxic to aquatic organisms.

No toxicity at solubility limit

LC50, Oncorhynchus mykiss (rainbow trout), flow-through, 96 h, > 0.022 mg/l

No toxicity at solubility limit

LC50, Cyprinodon variegatus (noble tooth carp), flow-through, 14 d, > 0.0063 mg/l

Acute toxicity to aquatic invertebrates

No toxicity at solubility limit

EC50, Mysidopsis bahia, flow-through test, 96 h, > 0.0091 mg/l

No toxicity at solubility limit

EC50, Daphnia magna (large water flea), flow-through test, 48 h, > 0.015 mg/l

Acute toxicity to algae/ aquatic plants

No toxicity at solubility limit

ErC50, Pseudokirchneriella subcapitata (green algae), 72 h, Growth rate, > 0.022 mg/l

No toxicity at solubility limit

EC10, Pseudokirchneriella subcapitata (green algae), 96 h, Growth rate, >= 0.022 mg/l

Chronic toxicity for fish

No toxicity at solubility limit

NOEC, Oncorhynchus mykiss (rainbow trout), 93 d, growth, >= 0.0044 mg/l

Chronic toxicity to aquatic invertebrates

NOEC, Daphnia magna (large water flea), 21 d, survival, >= 0.0079 mg/l

Decamethylcyclopentasiloxane

Acute toxicity to fish

It is not expected to be acutely toxic to aquatic organisms.

No toxicity at solubility limit

LC50, Oncorhynchus mykiss (rainbow trout), 96 h, > 16 µg/l, OECD Guideline 204 or Equivalent

Acute toxicity to aquatic invertebrates

No toxicity at solubility limit

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EC50, Daphnia magna, 48 h, > 2.9 mg/l, OECD Guideline 202 or Equivalent

Acute toxicity to algae/ aquatic plants

No toxicity at solubility limit

ErC50, Pseudokirchneriella subcapitata (green algae), 96 h, Growth rate, > 0.012 mg/l

No toxicity at solubility limit

NOEC, Pseudokirchneriella subcapitata (green algae), 96 h, Growth rate, 0.012 mg/l

Chronic toxicity for fish

No toxicity at solubility limit

LC50, Oncorhynchus mykiss (rainbow trout), 14 d, > 16 mg/l

No toxicity at solubility limit

NOEC, Oncorhynchus mykiss (rainbow trout), 45 d, >= 0.017 mg/l

No toxicity at solubility limit

NOEC, Oncorhynchus mykiss (rainbow trout), 90 d, >= 0.014 mg/l

Chronic toxicity to aquatic invertebrates

NOEC, Daphnia magna, 21 d, 0.015 mg/l

Toxicity to soil-dwelling organisms

The product has no known adverse effect on soil-dwelling organisms, as far as they have been investigated.

NOEC, Eisenia fetida (earthworms), >= 76 mg/kg

Dodecamethyl cyclohexasiloxane

Acute toxicity to algae/ aquatic plants

It is not expected to be acutely toxic to aquatic organisms.

No toxicity at solubility limit

ErC50, Pseudokirchneriella subcapitata (green algae), 72 h, > 0.002 mg/l

Polyethylene glycol

Acute toxicity to fish

Material is not classified as hazardous to aquatic organisms (LC50/EC50/IC50/LL50/EL50 are greater than 100 mg/L for the most sensitive species).

12.2 Persistence and Degradability:

Octamethylcyclotetrasiloxane [D4]

Biodegradability: The material is expected to be very slowly degradable in the environment. Does not pass OECD / EEC tests for biodegradability.

Time interval per 10 days: Not applicable

Biodegradation: 3.7%

Exposure time: 28 d

Method: Guideline test OECD 310

Stability in water (half-life)

Hydrolysis, DT50, 3.9 d, pH 7, Half-life temperature 25 °C, OECD test guideline 111

Hydrolysis, DT50, 16.7 d, pH 7, Half-life temperature 12 °C, OECD test guideline 111

Hydrolysis, DT50, 0.075 d, pH 4, Half-life temperature 25 °C, OECD test guideline 111

Decamethylcyclopentasiloxane

Biodegradability: The material is expected to be very slowly degradable in the environment. Does not pass OECD / EEC tests for biodegradability.

Time interval per 10 days: Not applicable

Biodegradation: 0.14

Exposure time: 28 d

Method: Guideline test OECD 310

Dodecamethylcyclohexasiloxane

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Biodegradability: Based on the strict testing guidelines, this material cannot be considered directly biodegradable; however, these results do not necessarily imply that the material is not biodegradable under environmental conditions.

Time interval per 10 days : unsuccessful

Biodegradation: 4.5%

Exposure time: 28 d

Method: OECD 301 B test guideline

Polyethylene glycol

Biodegradability: For this group of products: Based on the strict testing guidelines, this material cannot be considered directly biodegradable; however, these results do not necessarily imply that the material is not biodegradable under environmental conditions.

Time interval per 10 days: Not applicable

Biodegradation: 48 %

Exposure time: 28 d

Method: OECD Guideline 306

12.3 Bioaccumulation:

Octamethylcyclotetrasiloxane [D4]

Bioaccumulation: The bioconcentration potential is high (BCF is greater than 3000 or log Pow is between 5 and 7).

Partition coefficient: n-octanol/water(log Pow): 6,49 Measured

Bioconcentration factor (BCF): 12 400 Pimephales promelas (American fathead) Measured

Decamethylcyclopentasiloxane

Bioaccumulation: Bioconcentration potential is moderate (BCF between 100 and 3000 or log Pow between 3 and 5).

Partition coefficient: n-octanol/water(log Pow): 5,2 Measured

Bioconcentration factor (BCF): 2 010 Fish estimated

Dodecamethylcyclohexasiloxane

Bioaccumulation: The bioconcentration potential is low (BCF less than 100 or log Pow greater than 7).

Partition coefficient: n-octanol/water (log Pow): 8,87

Polyethylene glycol

Bioaccumulation: For this group of products: No bioconcentration is expected, due to the relatively high solubility in water.

12.4 Mobility in soil:

Octamethylcyclotetrasiloxane [D4]

Partition coefficient (Koc): 16596 Directive test OECD 106

Decamethylcyclopentasiloxane

Partition coefficient (Koc): > 5000 estimated

Polyethylene glycol

No data available.

12.5 Results of PBT and vPvB assessment:

Octamethylcyclotetrasiloxane [D4]

Octamethylcyclotetrasiloxane (D4) meets the current criteria for PBT and vPvB under REACH Annex XIII, or other regionally specific criteria.

However, D4 does not behave in the same way as known PBT/vPvB substances.

The weight of scientific evidence from field studies shows that D4 is not biofortifying in aquatic and terrestrial food webs.

D4 in air is degraded by reaction with naturally occurring hydroxyl radicals in the atmosphere

D4 in air that is not degraded by reaction with hydroxyl radicals is not expected to enter water, land or living organisms from the air.

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This substance is considered persistent, bioaccumulative, and toxic (PBT).
This substance is considered very persistent and very bioaccumulative (vPvB).

Decamethylcyclopentasiloxane

Decamethylcyclopentasiloxane (D5) meets the current REACH Appendix XIII criteria for vPvB. However, D5 does not behave similarly to known PBT/vPvB substances.

The weight of scientific evidence from field studies shows that D5 does not increase biologically in food webs in water or on land.

D5 in air will be degraded by a natural reaction with naturally occurring hydroxyl radicals in the atmosphere.

All the D5 in the air that is not broken down by reaction with hydroxyl radicals is not expected to transfer from air to water, to land or to living organisms.

Based on an independent scientific group of experts, the Canadian Department of the Environment has concluded that "D5 does not enter the environment in a quantity or concentration or under conditions that have or are likely to have, either immediately or in the long term, a harmful effect on the environment or its biological diversity or that pose or are likely to pose a hazard to the environment on which life depends."

Substance is very persistent and very bioaccumulative (vPvB).

Dodecamethylcyclohexasiloxane

Dodecamethylcyclohexasiloxane (D6) meets the current REACH appendix XIII criteria for vPvB.

D6, however, does not behave similarly to known PBT/vPvB substances.

The weight of scientific evidence from field studies shows that D6 does not increase biologically in food webs in water or on land.

D6 in air will be degraded by a natural reaction with naturally occurring hydroxyl radicals in the atmosphere.

All the D6 in air that is not broken down by reaction with hydroxyl radicals is not expected to transfer from air to water, to land or to living organisms.

Substance is very persistent and very bioaccumulative (vPvB).

Polyethylene glycol

The substance is not persistent, bioaccumulative and toxic (PBT).

Substance is not very persistent and very bioaccumulative (vPvB).

12.6 Endocrine disrupting properties

The substance/mixture does not contain any components believed to have endocrine-disrupting properties according to REACH article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at level 0.1% or higher.

octamethylcyclotetrasiloxane [D4]

This substance is not considered to have endocrine-disrupting properties according to Article 57(f) of REACH, Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

Decamethylcyclopentasiloxane

This substance is not considered to have endocrine-disrupting properties according to Article 57(f) of REACH, Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

Dodecamethylcyclohexasiloxane

This substance is not considered to have endocrine-disrupting properties according to Article 57(f) of REACH, Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

Polyethylene glycol

This substance is not considered to have endocrine-disrupting properties according to Article 57(f) of REACH, Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

12.7 Other Harmful Effects:

Dimethylsiloxane, ethoxylated, 3-hydroxypropyl-terminated

This substance is not on the Montreal Protocol list of ozone-depleting substances.

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Octamethylcyclotetrasiloxane [D4]

This substance is not on the Montreal Protocol list of ozone-depleting substances.

Decamethylcyclopentasiloxane

This substance is not on the Montreal Protocol list of ozone-depleting substances.

Dodecamethylcyclohexasiloxane

This substance is not on the Montreal Protocol list of ozone-depleting substances.

Polyethylene glycol

This substance is not on the Montreal Protocol list of ozone-depleting substances.

SECTION 13: Disposal instructions

13.1 Waste treatment methods:

Do not discharge into sewers, soil or surface water.

This product, if discarded in an unused and uncontaminated state, must be treated as hazardous waste according to EC Directive 2008/98/EC, provided it meets the criteria listed in Annex III of this Directive.

All disposal practices must comply with all national and provincial laws and any municipal or local ordinances governing hazardous waste.

Additional assessments may be needed for used, contaminated and residual materials.

The assignment of an appropriate EWC waste group as well as an EWC waste code specific to this product depends on the application for which this product has been used.

Consultation with waste management service.

SECTION 14: Information relating to transport

14.1 UN number

ADR/RID/ADN: UN 3082

IMDG: UN 3082

IATA: UN 3082

14.2 Proper cargo name according to UN model regulations

ADR/RID/ADN: ENVIRONMENTALLY HAZARDOUS LIQUID, N.O.S.
(Octamethylcyclotetrasiloxane)

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Octamethyl Cyclotetrasiloxane)

IATA: Environmentally hazardous substance, liquid, n.o.s.
(Octamethyl Cyclotetrasiloxane)

14.3 Transport hazard class(es)

ADR/RID/ADN: 9

IMDG: 9

IATA: 9

14.4 Packing group

ADR/RID/ADN

Packing group: III

Hazard identification no.: 90

IMDG

Packing group: III

EmS Code: F-A, S-F

IATA (Cargo)

Packing group: III

IATA (Passenger)

Packing group: III

14.5 Environmental hazards

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ADR/RID/AND

Environmentally hazardous: yes - Octamethylcyclotetrasiloxane

IMDG

Marine pollution: yes - Octamethyl Cyclotetrasiloxane

IATA

Environmentally hazardous: not applicable

14.6 Special precautions for the user

Notes:

This information is not intended to disclose all specific legislation, operational requirements/information on this product. Additional information on transport can be obtained from a sales representative or from customer service. It is the responsibility of the transport company to comply with all legal provisions relating to the transport of goods.

14.7 Transport in bulk in accordance with Annex II to MARPOL 73/78 and the IBC Code

Not applicable for product, as delivered.

SECTION 15: Statutory information

15.1 Safety, health and environmental regulations and legislation specific to the substance or mixture:

REACH Regulation (EC) No 1907/2006

Polymers are exempt from registration under REACH.

All relevant starting materials and additives are registered or exempt from registration in accordance with Regulation (EC) No 1907/2006 (REACH).

The above REACH registration status indications are provided in good faith and are assumed to be accurate as of the effective date shown above.

However, no warranty is given, express or implied.

It is the responsibility of the buyer/user to ensure that his/her understanding of the regulatory status of this product is correct.

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII):

Restriction conditions for the following dates should be considered:

Number on the list: 3, 75

octamethylcyclotetrasiloxane [D4] (Number on the list 70 (2024))

Decamethylcyclopentasiloxane (Number on the list 70 (2024))

Dodecamethylcyclohexasiloxane (Number on the list 70 (2024))

Authorisation status under REACH:

The following substance(s) included in this product has/have/could have: an authorisation requirement in accordance with REACH:

- ✓ CAS No: 556-67-2
Name: octamethylcyclotetrasiloxane [D4].
Authorisation status: listed in the Candidate List of Substances of Very High Concern for Authorisation
Authorisation number Not available
Expiry date: Not available
Exempt (categories of) use: Not available
- ✓ CAS No: 541-02-6
Name: Decamethylcyclopentasiloxane
Authorisation status: listed in the Candidate List of Substances of Very High Concern for Authorisation
Authorisation number Not available
Expiry date: Not available

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- Exempt (categories of) use: Not available
- ✓ CAS No: 540-97-6
- Name: Dodecamethylcyclohexasiloxane
- Authorisation status: listed in the Candidate List of Substances of Very High Concern for Authorisation
- Authorisation number Not available
- Expiry date: Not available
- Exempt (categories of) use: Not available

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Indicated in regulation: ENVIRONMENTAL DATA

Number in Regulation: E1

100 t

200 t

Further information:

Take into account directive 92/85/EEC on maternity protection or stricter national legislation, if applicable.

15.2 Chemical safety assessment:

No chemical safety assessment has been carried out for this substance/mixture.

SECTION 16: Other information

Full text of H-phrases in sections 2 and 3

H226: Flammable liquid and vapour.

H361f: Suspected of damaging fertility.

H410: Very toxic to aquatic organisms, with long-lasting effects.

Revision

Identification Number: 4107660 / A281 / Creation date:: 25.07.2024 / Version: 6.0

If this version of the safety data sheet (SDS) contains significant changes from the previous version, these are listed below.

If no significant changes are shown, no significant changes have taken place.

Changes include identification, hazards, tox/eco-tox information and ingredient addition/disposal, and regulatory information, hazard information, use, risk management measures and other significant regulatory changes to the product.

A detailed explanation of the changes can be obtained on request.

Abbreviations and acronyms:

TWA8-hr TWA

US WEELUSA Workplace Environmental Exposure Levels (WEEL).

Aquatic Chronic (Chronic) Aquatic long-term hazard

Flam. Liq. Flammable liquids

Repr. Toxicity for reproduction

Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road (ADR Agreement); AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Association for the Testing of Materials; bw - Body Weight; CLP - Regulation on Classification, Labelling and Packaging; Regulation (EC)

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No 1272/2008; CMR - Carcinogenic, mutagenic or toxic to reproduction; DIN - Standard of the German Institute for Standardisation; DSL - List of substances used indoors (Canada); ECHA - European Chemicals Agency; EC-Number - EINECS number; ECx - Concentration associated with x% response; ELx - Charge capacity associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemicals (Japan); ErCx - Concentration associated with x% growth response; GHS - Globally Harmonised System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - IMO International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk; IC50 - Half-Maximum Inhibitory Concentration; ICAO - International Civil Aviation Organisation; IECSC - Inventory List of Existing Chemicals in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; KECI - Korean Inventory of Existing Chemicals; LC50 - Lethal concentration for 50% of a test population; LD50 - Lethal dose for 50% of a test population (lethal dose median); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not otherwise specified; NO(A)EC - No discernible (negative) effect on concentration; NO(A)EL - No discernible (negative) effect on Level; NOELR - No discernible effect on loading capacity; NZIoC - New Zealand inventory of chemicals; OECD - Organisation for Economic Co-operation and Development OECD; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, bioaccumulative and toxic substance; PICCS - Philippine inventory of chemicals and chemical substances; (Q)SAR - (Quantitative) structure-activity relationships; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH); RID - Regulations concerning the International Carriage of Dangerous Goods by Rail (RID); SADT - Self-accelerating decomposition temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwanese Inventory of Chemical Substances; TECl - Inventory of Chemical Substances Existing in Thailand; TRGS - Technical Regulation on Hazardous Substances; TSCA - Toxic Substances Control Act (USA); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Information source and references

This safety data sheet was prepared by Product Regulatory Services and Hazard Communications Groups from information by internal references within our company.

DOW BENELUX B.V. asks each customer or recipient of this Safety Data Sheet (MSDS) to read it carefully and, if necessary, to consult the appropriate experts to understand the information contained in this MSDS and to be aware of the hazards presented by the product. The information in this document is given in good faith and is believed to be correct at the date of creation of this document. However, no express or implied warranty is given. Legal provisions may change and they may be different depending on the country. It is the buyer/user's responsibility to ensure that their activities comply with all local legal provisions. The information in this document relates only to the product as shipped. Since the conditions under which the product is used cannot be controlled by the manufacturer, the buyer/user must determine the conditions under which the product can be used in complete safety. Due to the proliferation of information sources, such as Safety Data Sheets (MSDS) from various manufacturers, we are not and cannot be responsible for MSDS obtained from other sources. If you have received a Safety Data Sheet from another source, or if you are not sure that you are in possession of the latest version of a Safety Data Sheet, please contact us.

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If this version of the eSDS contains significant changes from the previous version, these are listed below. If no significant changes are shown, no significant changes have taken place.