

Thermal HY

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

1.1. Product identifier

Trade name

Thermal HY

Article No.

5L: 8940105 10L: 8940104

REACH registration number

the substance is exempt from the obligation to register

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

Relevant identified uses

Tempering fluid

Working temperature range: -80°C....+55°C

Not suitable for use in

No data available.

1.3. Details of the supplier of the safety data sheet

Supplier

JULABO GmbH

Address

Gerhard-Juchheim-Straße 1

77960 Seelbach

Germany

Telephone

+49(0)782351-180

Email

service.de@julabo.com

Web site

www.julabo.com

Contact person

Verkauf und technische Beratung

Email

service.de@julabo.com

1.4. Emergency telephone number

+49(0)89-19240 (24h)

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Available outside office hours

No

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Description

This substance does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008.

2.2. Label elements

More information

not required

2.3. Other hazards

this material is flammable but not easily ignited Contains a PBT/vPvB substance in a concentration of > 0.1%.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-phrased M factor acute M factor chronic	Note
-	63148-62-9 613-156-5 - -	≥95 - <100%	-	- - -	-
Dodecamethylcyclohexasiloxane	540-97-6 208-762-8 01-2119517435-42- xxxx -	>0.01 - <0.25%	-	- - -	SVHC
octamethylcyclotetrasiloxane; [D4]	556-67-2 209-136-7 01-2119529238-36 014-018-00-1	>0.01 - <0.25%	Repr. 2, Aquatic Chronic 1	H361f, H410 - M-chro=10	SVHC

Substance additional information

For the complete text of H- / EUH-statements mentioned in this section, see section 16.

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SECTION 4: First aid measures

4.1. Description of first aid measures

Remove soiled, soaked clothing immediately. If symptoms occur or in case of doubt, seek medical advice. Remove the casualty from the danger zone. Do not leave affected persons unattended. If unconscious, keep the patient in the recovery position and do not administer anything by mouth.

Inhalation

Remove person to fresh air and keep comfortable for breathing. Keep the affected person warm and at rest. Get prompt medical attention. In case of accident or if you feel unwell, seek medical advice immediately (show this label or the safety data sheet if possible).

Skin contact

Consult a doctor in case of skin reactions. In case of contact with skin, remove soiled, soaked clothing immediately and wash skin immediately with plenty of soap and water.

Eye contact

Immediately rinse carefully and thoroughly with eye wash or water. If eye irritation persists: Get medical advice/attention.

Ingestion

Rinse mouth with water. Do NOT induce vomiting.

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

No symptoms and effects are known to date.

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

None.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂). Alcohol resistant foam. Spray water Water spray. BC powder Sand

Unsuitable extinguishing media

Water full jet

5.2. Special hazards arising from the substance or mixture

Carbon monoxide (CO). Carbon dioxide (CO₂). Formaldehyde.

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5.3. Advice for firefighters

Special protective equipment for fire-fighters

Toxic gases may be produced in the event of fire. Do not inhale explosion and fire gases. Use air-supplied respirator, gloves and protective goggles. Do not allow extinguishing water to enter sewers and bodies of water. Fight fire with normal precautions from a reasonable distance. Collect contaminated extinguishing water separately and do not allow it to enter the sewage system.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Bring people to safety. In case of spills, beware of slippery floors and surfaces. Use personal protective equipment. A respirator must be worn when exposed to vapors, dusts, aerosols and gases.

6.2. Environmental precautions

Prevent the product from entering the sewage system or surface and ground water. Prevent the area from spreading (e.g. by containing the oil booms). Retain and dispose of contaminated wash water.

6.3. Methods and material for containment and cleaning up

Pick up mechanically, cover the sewers Use of adsorbent materials. Wipe up with absorbent material (e.g. cloth, fleece). Absorb spillage: Sawdust, kieselguhr (diatomite), sand, universal binder In case of spills, beware of slippery floors and surfaces. Dispose of in suitable containers. Ventilate the affected area.

6.4. Reference to other sections

Hazardous combustion products: see section 5 Personal protective equipment - see section 8 Incompatible materials: see section 10

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Preventive handling precautions

Use only in well ventilated areas Do not breathe gas, fume, vapours or spray. Vapors/aerosols must be safely extracted directly at the point of origin.

General hygiene

Avoid contact with eyes and skin. Wash hands thoroughly after handling. Keep away from food, drink and animal feeding stuffs. Do not use containers for chemicals that are normally intended for holding food.

7.2. Conditions for safe storage, including any incompatibilities

Keep container dry, tightly closed and store in a cool, well-ventilated place. Store in tightly closed original container. Keep away from sources of ignition - No smoking. Take action to prevent static discharges.

D07.261188620

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7.3. Specific end use(s)

There is no information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits

Does not contain substances in quantities above the concentration limits for which an occupational exposure limit is specified.

DNEL/DMEL

Product/Substance name (CAS No./EC No.)	Type	Exposure	Value	Population	Effects
Dodecamethylcyclhexasiloxane (540-97-6/208-762-8)	DNEL	Chronic (long term) Inhalation	11 mg/m ³	Workers	Systemic
Dodecamethylcyclhexasiloxane (540-97-6/208-762-8)	DNEL	Chronic (long term) Inhalation	1.22 mg/m ³	Workers	Local
Dodecamethylcyclhexasiloxane (540-97-6/208-762-8)	DNEL	Acute (short term) Inhalation	6.1 mg/m ³	Workers	Local
Dodecamethylcyclhexasiloxane (540-97-6/208-762-8)	DNEL	Chronic (long term) Inhalation	2.7 mg/m ³	Consumers	Systemic
Dodecamethylcyclhexasiloxane (540-97-6/208-762-8)	DNEL	Chronic (long term) Inhalation	0.3 mg/m ³	Consumers	Local
Dodecamethylcyclhexasiloxane (540-97-6/208-762-8)	DNEL	Acute (short term) Inhalation	1.5 mg/m ³	Consumers	Local
Dodecamethylcyclhexasiloxane (540-97-6/208-762-8)	DNEL	Chronic (long term) Oral	1.7 mg/kg bw/day	Workers	Systemic
Dodecamethylcyclhexasiloxane (540-97-6/208-762-8)	DNEL	Acute (short term) Oral	1.7 mg/kg bw/day	Consumers	Systemic
octamethylcyclotetrasiloxane; [D4] (556-67-2/209-136-7)	DNEL	Chronic (long term) Inhalation	73 mg/m ³	Workers	Systemic
octamethylcyclotetrasiloxane; [D4] (556-67-2/209-136-7)	DNEL	Chronic (long term) Inhalation	73 mg/m ³	Workers	Local
octamethylcyclotetrasiloxane; [D4] (556-67-2/209-136-7)	DNEL	Chronic (long term) Inhalation	13 mg/m ³	Consumers	Systemic
octamethylcyclotetrasiloxane; [D4] (556-67-2/209-136-7)	DNEL	Chronic (long term) Inhalation	13 mg/m ³	Consumers	Local
octamethylcyclotetrasiloxane; [D4] (556-67-2/209-136-7)	DNEL	Chronic (long term) Oral	3.7 mg/kg bw/day	Consumers	Systemic

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PNEC/PEC

Product/Substance name (CAS No./EC No.)	Type	Environmental compartment	Value
Dodecamethylcyclohexasiloxane (540-97-6/208-762-8)	PNEC	Sewage Treatment Plant	1 mg/l
Dodecamethylcyclohexasiloxane (540-97-6/208-762-8)	PNEC	Sediment (freshwater)	13 mg/kg dwt
Dodecamethylcyclohexasiloxane (540-97-6/208-762-8)	PNEC	Sediment (marine water)	1.3 mg/kg dwt
Dodecamethylcyclohexasiloxane (540-97-6/208-762-8)	PNEC	Soil	3.77 mg/kg dwt
octamethylcyclotetrasiloxane; [D4] (556-67-2/209-136-7)	PNEC	Freshwater	1.5 µg/l
octamethylcyclotetrasiloxane; [D4] (556-67-2/209-136-7)	PNEC	Marine water	0.15 µg/l
octamethylcyclotetrasiloxane; [D4] (556-67-2/209-136-7)	PNEC	Sewage Treatment Plant	10 mg/l
octamethylcyclotetrasiloxane; [D4] (556-67-2/209-136-7)	PNEC	Sediment (freshwater)	3 mg/kg
octamethylcyclotetrasiloxane; [D4] (556-67-2/209-136-7)	PNEC	Sediment (marine water)	0.3 mg/kg
octamethylcyclotetrasiloxane; [D4] (556-67-2/209-136-7)	PNEC	Soil	0.54 mg/kg

8.2. Exposure controls

Appropriate engineering controls

Technical measures and the use of appropriate work procedures take precedence over the use of personal protective equipment. Personal protective equipment shall be used if the risks cannot be avoided or sufficiently limited by collective technical means of protection or by work organisation measures, methods or procedures. Open windows and doors to provide sufficient ventilation. If this is not possible, increase air exchange by using ventilation.

Eye / face protection

Use safety goggles with side protection.

Hand protection

Wear suitable protective gloves. A chemical protective glove tested in accordance with EN 374 is suitable. Check for leaks/impermeability before use. If you intend to reuse the gloves, clean them before taking them off and air them thoroughly afterwards. It is recommended to clarify the chemical resistance of the mentioned protective gloves for special applications with the glove manufacturer. Butyl rubber. Isobutene-isoprene rubber NBR: Acrylonitrile butadiene rubber

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Other skin protection

Include recovery phases to regenerate the skin. Preventive skin protection (protective creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

Normally no personal respiratory protection necessary Respiratory protection is required for: Aerosol or mist formation, full/half/quarter mask (EN 136/140), type: A-P2 (combination filter for particles and organic gases and vapors, identification color: brown/white)

Environmental exposure controls

Use suitable containers to avoid contamination of the environment. Prevent the product from entering the sewage system or surface and ground water.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Liquid

Colour

Colourless.

Odour

Faintly perceptible

Melting point / freezing point

-100 °C

Boiling point or initial boiling point and boiling range

228.5 °C

Flammability

this material is flammable but not easily ignited

Lower and upper explosion limit

Not determined.

Flash point

62 °C

Method

(ISO 2592)

Auto-ignition temperature

335 °C

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Decomposition temperature

Not relevant.

pH

Not applicable.

Kinematic viscosity

~ 3 mm²/s

Method

(20°C)

Solubility

Insoluble in water.

Partition coefficient n-octanol/water

Not determined.

Vapour pressure

Not determined.

Density and/or relative density

~ 0.9 g/cm³

Method

(20°C)

Relative vapour density

There is no information available.

Particle characteristics

Not relevant.

9.2. Other information

Hazard classes according to GHS (physical hazards): not relevant

SECTION 10: Stability and reactivity

10.1. Reactivity

Regarding incompatibilities: see below "Conditions to avoid" and "Incompatible materials".

10.2. Chemical stability

The material is stable under normal ambient conditions and under the temperature and pressure conditions to be expected during storage and handling.

10.3. Possibility of hazardous reactions

No dangerous reactions known.

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10.4. Conditions to avoid

There are no known conditions to be specifically avoided.

10.5. Incompatible materials

Oxidizing agent

10.6. Hazardous decomposition products

Measurements have shown that at temperatures above approx. 150°C a small amount of formaldehyde is split off by oxidative degradation.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product / Substance name CAS / EC no.	Value / Dose	Exposure route	Method / Guideline	Remarks
Polydimethylsiloxan 63148-62-9 / 613-156-5	>5.000 mg/kg	Oral	Acute toxicity estimate ATE (Oral)	Classification according to Regulation (EC) No. 1272/2008: Based on available data, the classification criteria are not met.
Polydimethylsiloxan 63148-62-9 / 613-156-5	>2.000 mg/kg	Dermal	Acute toxicity estimate ATE (Dermal)	Classification according to Regulation (EC) No. 1272/2008: Based on available data, the classification criteria are not met.
Dodecamethylcyclohexasiloxane 540-97-6 / 208-762-8	>5.000 mg/kg	Oral	Acute toxicity estimate ATE (Oral)	The criteria for categorisation in this hazard class are not met.
Dodecamethylcyclohexasiloxane 540-97-6 / 208-762-8	>2.000 mg/kg	Dermal	Acute toxicity estimate ATE (Dermal)	The criteria for categorisation in this hazard class are not met.
octamethylcyclotetrasiloxane; [D4] 556-67-2 / 209-136-7	> 5.000 mg/kg	Oral	Acute toxicity estimate ATE (Oral)	-
octamethylcyclotetrasiloxane; [D4] 556-67-2 / 209-136-7	> 2.000 mg/kg	Dermal	Acute toxicity estimate ATE (Dermal)	-

Skin corrosion/irritation

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Product / Substance name CAS / EC no.	Result	Duration of exposure	Species	Method / Guideline
Polydimethylsiloxan 63148-62-9 / 613-156-5	Based on available data, the classification criteria are not met.	-	-	-
Dodecamethylcyclohexasiloxane 540-97-6 / 208-762-8	The criteria for categorisation in this hazard class are not met.	-	-	-
octamethylcyclotetrasiloxane; [D4] 556-67-2 / 209-136-7	No skin irritation	24 hours	Rabbit	OECD test guideline 404

Serious eye damage/irritation

Product / Substance name CAS / EC no.	Result	Species	Method / Guideline
Polydimethylsiloxan 63148-62-9 / 613-156-5	Based on available data, the classification criteria are not met.	-	-
Dodecamethylcyclohexasiloxane 540-97-6 / 208-762-8	The criteria for categorisation in this hazard class are not met.	-	-
octamethylcyclotetrasiloxane; [D4] 556-67-2 / 209-136-7	No eye irritation	Rabbit	OECD test guideline 405

Respiratory or skin sensitisation

Product / Substance name CAS / EC no.	Result	Species	Method / Guideline
Polydimethylsiloxan 63148-62-9 / 613-156-5	Based on available data, the classification criteria are not met.	-	-
Dodecamethylcyclohexasiloxane 540-97-6 / 208-762-8	The criteria for categorisation in this hazard class are not met.	-	-
octamethylcyclotetrasiloxane; [D4] 556-67-2 / 209-136-7	No skin sensitizer	Guinea Pig	OECD Test Guideline 406

Germ cell mutagenicity

Product / Substance name CAS / EC no.	Result	Exposure route	Species	Method / Guideline
Polydimethylsiloxan	Based on available data,	-	-	-

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Product / Substance name CAS / EC no.	Result	Exposure route	Species	Method / Guideline
63148-62-9 / 613-156-5	the classification criteria are not met.			
Dodecamethylcyclohexasiloxane 540-97-6 / 208-762-8	The criteria for categorisation in this hazard class are not met.	-	-	-
octamethylcyclotetrasiloxane; [D4] 556-67-2 / 209-136-7	Negative.	inhalative	Rat	OECD test guideline 475
octamethylcyclotetrasiloxane; [D4] 556-67-2 / 209-136-7	Negative.	Oral	Rat	OECD test guideline 478

Carcinogenicity

Product / Substance name CAS / EC no.	Other
Polydimethylsiloxan 63148-62-9 / 613-156-5	Based on available data, the classification criteria are not met.
Dodecamethylcyclohexasiloxane 540-97-6 / 208-762-8	The criteria for categorisation in this hazard class are not met.
octamethylcyclotetrasiloxane; [D4] 556-67-2 / 209-136-7	There are no data available.

Reproductive toxicity

Product / Substance name CAS / EC no.	Result	Other
Polydimethylsiloxan 63148-62-9 / 613-156-5	-	Based on available data, the classification criteria are not met.
Dodecamethylcyclohexasiloxane 540-97-6 / 208-762-8	-	The criteria for categorisation in this hazard class are not met.
octamethylcyclotetrasiloxane; [D4] 556-67-2 / 209-136-7	Suspected of damaging fertility.	-

STOT-single exposure

Product / Substance name CAS / EC no.	Other
Polydimethylsiloxan	Based on available data, the classification criteria are not met.

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Product / Substance name CAS / EC no.	Other
63148-62-9 / 613-156-5	
Dodecamethylcyclohexasiloxane 540-97-6 / 208-762-8	The criteria for categorisation in this hazard class are not met.
octamethylcyclotetrasiloxane; [D4] 556-67-2 / 209-136-7	There are no data available.

STOT-repeated exposure

Product / Substance name CAS / EC no.	Other
Polydimethylsiloxan 63148-62-9 / 613-156-5	Based on available data, the classification criteria are not met.
Dodecamethylcyclohexasiloxane 540-97-6 / 208-762-8	The criteria for categorisation in this hazard class are not met.
octamethylcyclotetrasiloxane; [D4] 556-67-2 / 209-136-7	There are no data available.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2. Information on other hazards

Other information

No additional information is available.

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity

Product / Substance name CAS / EC no.	Remark
Polydimethylsiloxan 63148-62-9 / 613-156-5	According to 1272/2008/EC: Not to be classified as hazardous to the aquatic environment.
Dodecamethylcyclohexasiloxane 540-97-6 / 208-762-8	Based on available data, up to the maximum solubility of the product, no classification-relevant effects on aquatic organisms are expected. on aquatic organisms are to be expected. According to current experience, no adverse effects in sewage treatment plants are expected.

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Product / Substance name CAS / EC no.	Remark
	The material is not harmful to aquatic organisms (LC50/EC50/IC50/LL50/EL50 > 100 mg/L for the most sensitive species). Conclusion by analogy.
octamethylcyclotetrasiloxane; [D4] 556-67-2 / 209-136-7	Based on available data, up to the maximum solubility of the product, no classification-relevant effects on aquatic organisms are expected. on aquatic organisms are to be expected. According to current experience, no adverse effects in sewage treatment plants are expected. The material is not harmful to aquatic organisms (LC50/EC50/IC50/LL50/EL50 > 100 mg/L for the most sensitive species). Conclusion by analogy.

Chronical toxicity

Product / Substance name CAS / EC no.	Value / Result	Duration of exposure	Endpoint of the test	Species
octamethylcyclotetrasiloxane; [D4] 556-67-2 / 209-136-7	10 µg/l	14 days	LC50	Fisch
octamethylcyclotetrasiloxane; [D4] 556-67-2 / 209-136-7	> 15 µg/l	21 days	EC50	aquatic invertebrates

12.2. Persistence and degradability

Persistence and degradability

Product / Substance name CAS / EC no.	Duration	Result	Remark
Polydimethylsiloxan 63148-62-9 / 613-156-5	-	-	There are no data available.
Dodecamethylcyclohexasiloxane 540-97-6 / 208-762-8	-	-	There are no data available.
octamethylcyclotetrasiloxane; [D4] 556-67-2 / 209-136-7	29 days	3,7 %	ECHA

12.3. Bioaccumulative potential

Bioaccumulative potential

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Product / Substance name CAS / EC no.	LogKow / LogPow	Bioconcentration factor (BCF)	Remark
Polydimethylsiloxan 63148-62-9 / 613-156-5	-	-	There are no data available.
octamethylcyclotetrasiloxane; [D4] 556-67-2 / 209-136-7	6,488 (25,1°C) / -	12.400	-

12.4. Mobility in soil

Mobility

Product / Substance name CAS / EC no.	Remark
Polydimethylsiloxan 63148-62-9 / 613-156-5	There are no data available.
Dodecamethylcyclohexasiloxane 540-97-6 / 208-762-8	There are no data available.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment

Product / Substance name CAS / EC no.	PBT / vPvB
Dodecamethylcyclohexasiloxane 540-97-6 / 208-762-8	Dodecamethylcyclohexasiloxane (D6) fulfils the current criteria of Annex XIII of the EU REACH Regulation for vPvB and has been placed on the candidate list of substances of very high concern (SVHCs). However, D6 does not behave not comparable to the known PBT/vPvB substances. According to the interpretation of the available data by the silicone industry, the scientific evidence from field tests does not essentially indicate that D6 is that D6 is not biomagnifying in aquatic and terrestrial food chains. D6 in the air decomposes through naturally occurring processes in the atmosphere. It is not expected that D6 that does not decomposing D6 residues in the air are not expected to be deposited in water, soil or living organisms.
octamethylcyclotetrasiloxane; [D4] 556-67-2 / 209-136-7	Octamethylcyclotetrasiloxane (D4) meets the current criteria of Annex XIII of the EU REACH Regulation for PBT and vPvB and has been placed on the Candidate List of Substances of Very High Concern (SVHCs). D4 does not behave not comparable to the known PBT/vPvB substances. According to the interpretation of the available data the silicone industry's interpretation of the available data, the sci-

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Product / Substance name CAS / EC no.	PBT / vPvB
	<p>entific evidence from field trials does not essentially does not indicate that D4 is not biomagnifying in aquatic and terrestrial food chains. D4 in the air decomposes through naturally occurring processes in the atmosphere. It is not expected that non D4 residues in air that do not decompose in this way are not expected to be deposited in water, soil or living organisms. become deposited.</p>

12.6. Endocrine disrupting properties

Endocrine disrupting properties:
Related category CAT1
Category for human health CAT1
Category for the animal world CAT3b

12.7. Other adverse effects

Other adverse effects
There are no data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal considerations

Disposal in accordance with Directive 2008/98/EC on waste and hazardous waste. Contact the responsible authorized waste disposal company for waste disposal. The assignment of the waste code number/waste designation is to be carried out in accordance with the EWC on a sector- and process-specific basis. Should be prevented from entering drains. Avoid release to the environment. Obtain special instructions/consult safety data sheet. Please observe the relevant national or regional regulations. Waste must be separated in such a way that it can be kept separately by the municipal or national waste disposal facilities.

Packaging

Completely emptied packaging can be recycled. Contaminated packaging shall be treated in the same way as the substance.

SECTION 14: Transport information

14.1. UN number

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/AND/RID).

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14.2. UN proper shipping name

ADR / RID / ADN proper shipping name

Not relevant.

14.3. Transport hazard class(es)

Label

None.

14.4. Packing group

not assigned

14.5. Environmental hazards

Not hazardous to the environment according to dangerous goods regulations

14.6. Special precautions for user

No additional information is available.

14.7. Maritime transport in bulk according to IMO instruments

The freight is not transported in bulk.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

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

SEVESO-category: not assigned

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS): nicht gelistet

Ordinance on Persistent Organic Pollutants (POPs): nicht gelistet

National regulations

D15.261203910

D15.261183950

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Changes to previous revision

Revision of all sections and change of layout

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Abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE - Acute Toxicity Estimate

C&L - Classification and Labelling

CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008

CMR - Carcinogen, Mutagen, or Reproductive Toxicant

CSR - Chemical Safety Report

DMEL - Derived Minimum Effect Level

DNEL - Derived No Effect Level

EC50 - Half Maximal Effective Concentration

ECHA - European Chemicals Agency

GHS - Globally Harmonized System

IATA - International Air Transport Association

IMDG - International Maritime Dangerous Goods

Kow - octanol-water partition coefficient

LC50 - Lethal Concentration to 50 % of a test population

LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)

LoW - List of Wastes

OEL - Occupational Exposure Limit

PBT - Persistent, Bioaccumulative and Toxic substance

PEC - Predicted Environmental Concentration

PNEC - Predicted No Effect Concentration(s)

REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006

RID - Regulations concerning the International Carriage of Dangerous Goods by Rail

SCBA - Self-Contained Breathing Apparatus

STOT - Specific Target Organ Toxicity

SVHC - Substances of Very High Concern

UFI - Unique Formula Identifier

vPvB - Very Persistent and Very Bioaccumulative

Phrase meaning

Repr. 2 - Reproductive toxicity, hazard category 2

Aquatic Chronic 1 - Hazardous to the aquatic environment — Chronic hazard category 1

H361f Suspected of damaging fertility.

H410 Very toxic to aquatic life with long lasting effects.