acc. to Regulation (EC) No. 1907/2006 (REACH)

Silicone oil M 20, low viscosity, 20 cSt

article number: 4010 date of compilation: 2016-03-17 Version: **5.0 en**

Replaces version of: 2021-10-27

Version: (4)



Product identifier 1.1

Identification of the substance Silicone oil M 20, low viscosity, 20 cSt

Article number 4010

EC number 613-156-5 CAS number 63148-62-9

Polydimethylsiloxane Alternative name(s)

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

Relevant identified uses: Laboratory chemical

Laboratory and analytical use

Uses advised against: Do not use for products which come into contact

with foodstuffs. Do not use for private purposes

(household).

1.3 Details of the supplier of the safety data sheet

Carl Roth GmbH + Co KG Schoemperlenstr, 3-5 D-76185 Karlsruhe Germany

Telephone:+49 (0) 721 - 56 06 0 **Telefax:** +49 (0) 721 - 56 06 149 e-mail: sicherheit@carlroth.de Website: www.carlroth.de

Competent person responsible for the safety data :Department Health, Safety and Environment

sheet:

sicherheit@carlroth.de e-mail (competent person):

1.4 **Emergency telephone number**

Name	Street	Postal code/city	Telephone	Website
National Poisons Information Service City Hospital	Dudley Rd	B187QH Birmingham	844 892 0111	

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification acc. to GHS

This substance does not meet the criteria for classification.

2.2 **Label elements**

Labelling

not required

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Special danger of slipping by leaking/spilling product.

Results of PBT and vPvB assessment

Containing a PBT-/vPvB-substance in a concentration of $\geq 0.1\%$.

Endocrine disrupting properties

The substance has an endocrine disrupting potential.

SECTION 3: Composition/information on ingredients

3.1 Substances

Name of substance Silicone oil Molecular formula $(C_2H_6OSi)n$ CAS No 63148-62-9 EC No 613-156-5

Impurities/additives/constituents:

Name of substance	Identifier	Wt%
Dodecamethylcyclohexasiloxane	CAS No 540-97-6 EC No 208-762-8	0,1 - 3

Substance of Very High Concern (SVHC)

Name of substance	CAS No	EC No	Listed in	Remarks
Dodecamethylcyclohexasiloxane	540-97-6	208-762-8	Candidate list	PBT A57d vPvB A57e

Legend

candidate Substances meeting the criteria referred to in Article 57 and for eventual inclusion in Annex XIV list

PBT A57d Persistent, Bioaccumulative and Toxic (article 57d)

vPvB A57e Very Persistent and very Bioaccumulative (article 57e)

For full text of abbreviations: see SECTION 16

SECTION 4: First aid measures

4.1 Description of first aid measures



General notes

No special measures are necessary.

Following inhalation

Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

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Following ingestion

Most important symptoms and effects, both acute and delayed 4.2

Symptoms and effects are not known to date.

Indication of any immediate medical attention and special treatment needed 4.3



water spray, dry extinguishing powder, BC-powder, carbon dioxide (CO₂)

Unsuitable extinguishing media

Combustible.

Advice for firefighters

onable distance. Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures



Keep away from drains, surface and ground water.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains.

Other information relating to spills and releases

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Following eye contact

Rinse cautiously with water for several minutes.

Rinse mouth. Call a doctor if you feel unwell.

none

SECTION 5: Firefighting measures

5.1 Extinguishing media



Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings

water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

In case of fire may be liberated: Carbon monoxide (CO), Carbon dioxide (CO₂)

5.3

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reas-



For non-emergency personnel

Special danger of slipping by leaking/spilling product.

6.2 **Environmental precautions**

Place in appropriate containers for disposal.

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6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Provision of sufficient ventilation.

Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed.

Incompatible substances or mixtures

Observe hints for combined storage.

Consideration of other advice:

Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

This information is not available.

Relevant DNELs of components of the mixture

Name of sub- stance	CAS No	End- point	Threshol d level	Protection goal, route of exposure	Used in	Exposure time
Dodecamethylcyclo- hexasiloxane	540-97-6	DNEL	11 mg/m³	human, inhalat- ory	worker (industry)	chronic - systemic effects
Dodecamethylcyclo- hexasiloxane	540-97-6 DNEL 1,22 m m ³		1,22 mg/ m³	human, inhalat- ory worker (industry)		chronic - local ef- fects
Dodecamethylcyclo- hexasiloxane	540-97-6	DNEL	6,1 mg/m ³	human, inhalat- ory	worker (industry)	acute - local ef- fects

Relevant PNECs of components of the mixture

Name of sub- stance	CAS No	End- point	Threshol d level	Organism	Environmental compartment	Exposure time
Dodecamethylcyclo- hexasiloxane	540-97-6	PNEC	1 ^{mg} / _l	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
Dodecamethylcyclo- hexasiloxane	540-97-6	PNEC	13 ^{mg} / _{kg}	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)

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Relevant PNECs of components of the mixture									
Name of sub- stance					Environmental compartment	Exposure time			
Dodecamethylcyclo- hexasiloxane	540-97-6	PNEC	1,3 ^{mg} / _{kg}	aquatic organ- isms	marine sediment	short-term (single instance)			
Dodecamethylcyclo- hexasiloxane	540-97-6	PNEC	3,77 ^{mg} / _{kg}	terrestrial organ- isms	soil	short-term (single instance)			

8.2 Exposure controls

Individual protection measures (personal protective equipment)

Eye/face protection





Use safety goggle with side protection.

Skin protection





hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374.

type of material

NBR (Nitrile rubber)

material thickness

>0,11 mm

breakthrough times of the glove material

>480 minutes (permeation: level 6)

other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

Respiratory protection





Respiratory protection necessary at: Aerosol or mist formation. Type: A (against organic gases and vapours with a boiling point of > 65 °C , colour code: Brown). Usually no personal respirative protection necessary.

Environmental exposure controls

Keep away from drains, surface and ground water.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state liquid

Form viscous

Colour colourless

Odour odourless

Melting point/freezing point -70 °C

Boiling point or initial boiling point and boiling

range

Flammability

this material is combustible, but will not ignite

not determined

readily

Lower and upper explosion limit not determined

Flash point 240 °C

Auto-ignition temperature not determined

Decomposition temperature >150 °C

pH (value) not determined

Kinematic viscosity $18 - 22 \, \text{mm}^2/_{\text{s}}$ at 25 °C

Solubility(ies)

Water solubility (The study does not need to be conducted be-

cause the substance is known to be insoluble in

water)

Solubility in hydrocarbons, aliphatic soluble Solubility in hydrocarbons, aromatic soluble

Solubility in ethylene glycol practically insoluble

Solubility in ethyl acetate soluble
Solubility in n-butyl acetate soluble
Solubility in toluene soluble
Solubility in trichloroethylene soluble

Partition coefficient

Partition coefficient n-octanol/water (log value): this information is not available

Vapour pressure not determined

Density and/or relative density

Density $0.95 - 0.96 \, {}^{9}/{}_{cm^3}$ at 25 ${}^{\circ}$ C

Relative vapour density information on this property is not available

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not relevant (liquid)

Other safety parameters

Particle characteristics

Oxidising properties none

9.2 Other information

Information with regard to physical hazard

classes:

hazard classes acc. to GHS (physical hazards): not relevant

Other safety characteristics: There is no additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity

This material is not reactive under normal ambient conditions.

If heated

Vapours may form explosive mixtures with air.

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

Violent reaction with: strong oxidiser

10.4 Conditions to avoid

Keep away from heat. Decompostion takes place from temperatures above: >150 °C.

10.5 Incompatible materials

There is no additional information.

10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Classification acc. to GHS

This substance does not meet the criteria for classification.

Acute toxicity

Shall not be classified as acutely toxic.

Acute toxicity									
Exposure route Endpoint		Value	Species	Method	Source				
oral	LD50	>5.000 ^{mg} / _{kg}	rat		TOXNET				
dermal	LD50	>2.000 ^{mg} / _{kg}	rabbit		TOXNET				

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Acute toxicity of components of the mixture									
Name of substance	CAS No	Exposure route	Endpoint	Value	Species				
Dodecamethylcyclohexasiloxane	540-97-6	oral	LD50	>2.000 ^{mg} / _{kg}	rat				
Dodecamethylcyclohexasiloxane	540-97-6	dermal	LD50	>2.000 ^{mg} / _{kg}	rat				

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Symptoms related to the physical, chemical and toxicological characteristics

If swallowed

Data are not available.

• If in eyes

Data are not available.

• If inhaled

Data are not available.

• If on skin

Data are not available.

Other information

Health effects are not known. This information is based upon the present state of our knowledge.

11.2 Endocrine disrupting properties

Not listed.

11.3 Information on other hazards

There is no additional information.

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SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

Aquatic toxicity (acute) of components of the mixture									
Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time				
Dodecamethylcyclo- hexasiloxane	540-97-6	ErC50	>2 ^{µg} / _l	algae	72 h				

Aquatic toxicity (chronic) of components of the mixture								
Name of sub- stance	CAS No	Value	Species	Exposure time				
Dodecamethylcyclo- hexasiloxane	540-97-6	EC50	>100 ^{mg} / _l	microorganisms	3 h			

Biodegradation

Not readily biodegradable.

12.2 Process of degradability

Degradability of components of the mixture								
Name of substance	CAS No	Process	Degrada- tion rate	Time	Method	Source		
Dodecamethyl- cyclohexasilox- ane	540-97-6	carbon dioxide generation	4,47 %	28 d		ECHA		

12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components of the mixture							
Name of substance	CAS No	BCF	Log KOW	BOD5/COD			
Dodecamethylcyclohexasiloxane	540-97-6	1.160	8,87 (23,6 °C)				

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Containing a PBT-/vPvB-substance in a concentration of $\geq 0.1\%$.

12.6 Endocrine disrupting properties

Not listed.

12.7 Other adverse effects

Data are not available.

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SECTION 13: Disposal considerations

Waste treatment methods



Consult the appropriate local waste disposal expert about waste disposal.

Sewage disposal-relevant information

Do not empty into drains.

13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Properties of waste which render it hazardous

HP 10 toxic for reproduction **HP 14** ecotoxic

13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

SECTION 14: Transport information

14.1 UN number or ID number	not subject to transport regulations
-----------------------------	--------------------------------------

14.2 UN proper shipping name not assigned

14.3 Transport hazard class(es) none

14.4 Packing group not assigned

14.5 Environmental hazards non-environmentally hazardous acc. to the dan-

gerous goods regulations

14.6 Special precautions for user

There is no additional information.

14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - Additional information

Not subject to ADR, RID and ADN.

International Maritime Dangerous Goods Code (IMDG) - Additional information

Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Not subject to ICAO-IATA.

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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

Seveso Directive

2012/18/EU (Seveso III)			
No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements	Notes
	not assigned		

Deco-Paint Directive

VOC content	0 % 0 %
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Industrial Emissions Directive (IED)

VOC content	0 %
VOC content	0 g/l

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

not listed

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

not listed

Regulation on the marketing and use of explosives precursors

not listed

Regulation on drug precursors

not listed

Regulation on substances that deplete the ozone layer (ODS)

not listed

Regulation concerning the export and import of hazardous chemicals (PIC)

not listed

Regulation on persistent organic pollutants (POP)

not listed

National regulations(GB)

List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list

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Substance of Very High Concern (SVHC) acc. to GB REACH and HSE

Name of substance	CAS No	Listed in	Remarks
Dodecamethylcyclohexasiloxane	540-97-6	Candidate list	PBT A57d vPvB A57e desc-cand-5 rem-cand-3

Legend

candidate Substances meeting the criteria referred to in Article 57 and for eventual inclusion in Annex XIV

desc-cand-5 D6 PBT A57d PBT (Article 57d)

rem-cand-3 Dodecamethylcyclohexasiloxane (D6) meets the criteria of Article 57 (d) of Regulation (EC) 1907/2006 (REACH) as a substance which is persistent, bioaccumulative and toxic when it contains ≥ 0.1 % w/w octamethylcyclotetrasiloxane (D4) (EC No. 209-136-7). In addition to its intrinsic properties, it also meets the criteria of Article 57 (e) of Regulation (EC) 1907/2006 (REACH) as a substance which is very persistent and very bioaccumulative (vPvB) when it contains ≥ 0.1 % w/w decamethylcyclopentasiloxane (D5) (EC No. 208-764-9) or ≥ 0.1% w/w octamethylcyclotetrasiloxane (D5) (EC No. 208-764-9) or ≥ 0.1% w/w octamethylcyclotetrasiloxane (D5) (EC No. 208-764-9) or ≥ 0.1% w/w octamethylcyclotetrasiloxane (D5) (EC No. 208-764-9) or ≥ 0.1% w/w octamethylcyclotetrasiloxane (D5) (EC No. 208-764-9) or ≥ 0.1% w/w octamethylcyclotetrasiloxane (D5) (EC No. 208-764-9) or ≥ 0.1% w/w octamethylcyclotetrasiloxane (D5) (EC No. 208-764-9) or ≥ 0.1% w/w octamethylcyclotetrasiloxane (D5) (EC No. 208-764-9) or ≥ 0.1% w/w octamethylcyclotetrasiloxane (D5) (EC No. 208-764-9) or ≥ 0.1% w/w octamethylcyclotetrasiloxane (D5) (EC No. 208-764-9) or ≥ 0.1% w/w octamethylcyclotetrasiloxane (D5) (EC No. 208-764-9) or ≥ 0.1% w/w octamethylcyclotetrasiloxane (D5) (EC No. 208-764-9) or ≥ 0.1% w/w octamethylcyclotetrasiloxane (D5) (EC No. 208-764-9) or ≥ 0.1% w/w octamethylcyclotetrasiloxane (D5) (EC No. 208-764-9) or ≥ 0.1% w/w octamethylcyclotetrasiloxane (D5) (EC No. 208-764-9) or ≥ 0.1% w/w octamethylcyclotetrasiloxane (D5) (EC No. 208-764-9) or ≥ 0.1% w/w octamethylcyclotetrasiloxane (D5) (EC No. 208-764-9) or ≥ 0.1% w/w octamethylcyclotetrasiloxane (D5) (EC No. 208-764-9) or ≥ 0.1% w/w octamethylcyclotetrasiloxane (D5) (EC No. 208-764-9) or ≥ 0.1% w/w octamethylcyclotetrasiloxane (D5) (EC No. 208-764-9) or ≥ 0.1% w/w octamethylcyclotetrasiloxane (D5) (EC No. 208-764-9) or ≥ 0.1% w/w octamethylcyclotetrasiloxane (D5) (EC No. 208-764-9) or ≥ 0.1% w/w octamethylcyclotetrasiloxane (D5) (EC No. 208-764-9) or ≥ 0.1% w/w octamethylcyclo ane (D4) (EC No. 209-136-7). vPvB A57e VPvB (Article 57e)

Restrictions according to GB REACH, Annex 17

Dangerous substances with restrictions (GB REACH, Annex 17) **CAS No** Name of substance Name acc. to inventory No Dodecamethylcyclohexasiloxane this product meets the criteria for classi-3 fication in accordance with Regulation No

1272/2008/EC

Other information

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

National inventories

Country	Inventory	Status
AU	AIIC	all ingredients are listed
CA	DSL	all ingredients are listed
CN	IECSC	all ingredients are listed
EU	ECSI	all ingredients are listed
EU	REACH Reg.	all ingredients are listed
JP	CSCL-ENCS	all ingredients are listed
KR	KECI	all ingredients are listed
MX	INSQ	not all ingredients are listed
NZ	NZIoC	all ingredients are listed
PH	PICCS	all ingredients are listed
TR	CICR	all ingredients are listed
TW	TCSI	all ingredients are listed
US	TSCA	all ingredients are listed

Legend

Australian Inventory of Industrial Chemicals Chemical Inventory and Control Regulation AIIC CICR

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Legend

CSCL-ENCS

List of Existing and New Chemical Substances (CSCL-ENCS)
Domestic Substances List (DSL)
EC Substance Inventory (EINECS, ELINCS, NLP)
Inventory of Existing Chemical Substances Produced or Imported in China National Inventory of Chemical Substances
Korea Existing Chemicals Inventory
New Zealand Inventory of Chemicals ECSI IECSC INSQ KECI

NZIOC New Zealand Inventory of Chemicals
PICCS Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH Reg. REACH registered substances

Taiwan Chemical Substance Inventory

TSCA **Toxic Substance Control Act**

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance.

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Alignment to regulation:

Restructuring: section 9, section 14

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.1	Classification according to Regulation (EC) No 1272/2008 (CLP): This substance does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.	Classification acc. to GHS: This substance does not meet the criteria for classification.	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de naviga- tion intérieures (European Agreement concerning the International Carriage of Dangerous Goods by In- land Waterways)
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
GB REACH	The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended)

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Abbr.	Descriptions of used abbreviations
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
HSE	Health and Safety Executive
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
log KOW	n-Octanol/water
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

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