

SAFETY DATA SHEET

Regulation (EC) No 1907/2006 of the European Parliament, as amended by the



RODUTHERM DPO

Creation date 19.11.2022

Revised on Socket number 1.0

SECTION 1: Name of the substance or mixture and the company

1.1. Product identification

RODUTHERM DPO

Fabric / Blend

Mixture

UFI

8000-A0PG-V00T-2HE9

1.2. Relevant identified uses of the substance or mixture and uses not recommended

Specific use of the mixture

Heat transfer agent.

Industrial applications.

Commercial applications.

Intended main application

PC-TEC-7 Heat Transfer Fluids

Instructions for use

16 pieces Heat Transfer Fluids

Not recommended use of the mixture

The product must not be used in any manner other than as set forth in paragraph 1. The product must not be used in any manner other than as set forth in paragraph 1. Do not use it for personal use.

1.3. Details of the supplier providing the safety data sheet Supplier

Name or trade name

Rodutherm DPO

Address

Productieweg 8, 3481 MH, Harmelen

Netherlands

Phone

+31 6 10 27 52 11

Email

info@rodun-int.com

Web Address

<https://rodun-int.com>

Email address of a qualified person responsible for the safety data sheet

Name

Rodun International BV

Email

info@rodun-int.com

1.4. Emergency number

GGIZ +31 6 10 27 52 11; 24 hours, Monday - Sunday

SECTION 2: Potential Hazards

2.1. Classification of the substance or mixture

Classification of the mixture according to Regulation (EC) No 1272/2008

The mixture is classified as hazardous.

Skin irritation. 2,

H315 Eye irrit. 2,

H319 Acute Tox. 4,

H332 STOT SE 3,

H335

Repetition. 1B, H360Fd (intake) Aquatic

Acute 1, H400

Aquatic Chronic 1, H410

The main adverse effects on human health and the environment

Causes skin irritation. Causes severe eye irritation. May irritate the respiratory tract. May affect fertility if swallowed. Likely to harm the child in the womb if swallowed.

Harmful if you inhale it. Very toxic to aquatic organisms. Very toxic to aquatic organisms with long-lasting effects.

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2.2. Elements of Hazard Icon

Marking



Signal word

Danger

Hazardous

substances:

Diphenyl ether,

Biphenyl

Hazard Warnings

H315

Causes skin irritation.

H319

Causes severe eye irritation.

H332

Harmful if you inhale it.

H335

May irritate the respiratory tract.

H360Fd

May affect fertility if swallowed. Likely to harm the child in the womb if swallowed.

H410

Very toxic to aquatic organisms with long-lasting effects.

Safety Instructions

P201

Request special instructions before using it.

P261

Avoid inhaling fog/vapor/aerosol.

P264

After use, wash your hands and the affected parts of the body thoroughly.

P273

Avoid letting go into the environment.

P280

Wear protective gloves.

P308+P313

IN CASE OF EXPOSURE OR IF IT IS AFFECTED: Seek medical advice/medical attention.

P337+P313

If eye irritation persists: Seek medical advice/attention

P391

Absorb spills.

2.3. Other dangers

In accordance with the criteria laid down in the Commission Delegated Regulation (EU) 2017/2100 or the Regulation (EU) 2018/605, the mixture should not contain substances whose properties interfere with the endocrine disruptor. The mixture does not contain substances that do not meet the criteria for PBT or vPvB as laid down in Annex XIII of Regulation (EC) No 1907/2006 (REACH) of the European Parliament, as amended. Does not contain PMT/vPvM components.

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SECTION 3: Composition/Ingredient Information

3.2. Mixtures

The mixture contains the following hazardous substances and substances with a specified maximum permitted concentration in the working air

Identification number n	Name of the substance	Content by weight percentage	Classification according to Regulation (EC) No 1272/2008	Note.
CAS: 101-84-8 For example: 202-981-2	Diphenyl ether	73,5	Eye irritation. 2, H319 Repetition. 1B, H360Fd (de Intake) Aquatic Acute 1, H400 (M=1) Aquatic Chronic 3, H412	1
Index: 601-042-00-8 CAS: 92-52-4 For example: 202-163-5	Biphenyl	26,5	Skin irritation. 2, H315 Eye irritation. 2, H319 STOT SE 3, H335 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	

Nuts

1 substance for which exposure limit values have been established.

The full text of all hazard classifications and standard phrases can be found in Section 16.

SECTION 4: First Aid Measures

4.1. Description of first aid measures

Pay attention to your own safety. If any health problems occur or if in doubt, inform the doctor and provide him with information from this safety data sheet. If you are unconscious, place the affected person in a stabilized side position with a slightly tilted head and make sure the airways are patrolled, so you don't vomit. If the affected person is vomiting, make sure the vomiting is swallowed. In life-threatening circumstances, you should first try to resuscitate the patient and get medical attention. In case of respiratory arrest - artificial respiration starts immediately. In case of cardiac arrest - perform indirect chest compressions immediately.

If inhaled

Immediately interrupt exposure and take the patient outside into the fresh air. Make sure the patient avoids hypothermia. Seek medical treatment if irritation, shortness of breath, or other symptoms persist.

In contact with the skin

Remove contaminated clothing. Wash the affected person with plenty of lukewarm water. If there is no damage to the skin, it is recommended to use soap, soap solution or shampoo. Seek medical attention if skin irritation persists.

In contact with the eyes

Immediately rinse the eyes with a jet of running water, open the eyelids (if necessary forcibly); If someone has contact lenses, remove them immediately. Rinse for at least 10 minutes. If possible, seek medical treatment from a specialist.

If it is swallowed

Rinse your mouth with clean water. Safe medical treatment. In the case of persons without symptoms, contact the Toxicological Information Centre to decide on the need for medical treatment, and to provide information on the substances or composition of the preparation from the original packaging or from the safety data sheet of the substance or mixture.

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4.2. Main acute and delayed symptoms and effects of inhalation

Cough, headache. May irritate the respiratory tract.

In contact with the skin

Causes skin irritation.

When in contact with the eyes, this
causes serious eye irritation. **If it is**
swallowed

Irritation, malaise.

4.3. Indications of immediate medical assistance or special treatment

Symptomatic treatment.

SECTION 5: Firefighting Measures

5.1. Extinguishing agent

Suitable extinguishing agents

Alcohol-resistant foam, carbon dioxide, powder, water spray, water spray.

Unsuitable extinguishing agents

Water - full jet.

5.2. Special hazards caused by the substance or mixture

A fire can lead to the formation of carbon oxide, carbon dioxide, and other toxic gases. Inhaling dangerous decomposing (pyrolyzing) products can cause serious health damage.

5.3. Fire Suppression Instructions

Self-contained breathing apparatus (SCBA) with a chemical protection suit in case of (close) personal contact. Wear an air-independent respirator and a full protective suit. Do not allow contaminated extinguishing agent to enter the sewer system, surface water and groundwater.

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and procedures to be followed in case of emergency

Use personal protective equipment. Follow the instructions in sections 7 and 8. Do not inhale the mist/vapor/aerosol. Avoid contact with skin and eyes.

6.2. Environmental protection measures

Prevent soil contamination and discharge into surface water and groundwater. Do not allow it to enter the sewer system.

6.3. Methods and equipment for preservation and purification

Cover a spilled product with a suitable (non-flammable) absorbent material (sand, diatoms, soil, and other suitable absorbent materials), collect it in a tightly sealed container, and dispose of it according to Section 13. In the event of a leak of large quantities of the product, please inform the fire brigade and other competent authorities. After removing the product, rinse the contaminated area with plenty of water. Do not use solvents.

6.4. Reference to other sections

See sections 7, 8, and 13.

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SECTION 7: Handling and Storage

7.1. Protective measures for safe handling

Prevent the formation of gases and vapours in concentrations that exceed the occupational exposure limits for hazardous substances. Do not inhale the mist/vapor/aerosol. Avoid contact with skin and eyes. Request special instructions before using it. After use, wash your hands and the affected parts of the body thoroughly. Read and understand all safety instructions before using them. Use only outdoors or in well-ventilated rooms. Use personal protective equipment in accordance with Section 8. Avoid letting go into the environment.

7.2. Conditions for safe storage taking into account incompatibilities

Store only in tightly closed containers in cool, dry and well-ventilated designated areas. Keep it under lock and key. Keep the container tightly closed.

Storage class

6,1C - Flammable toxic substances or substances with chronic effects

7.3. Specific end applications

not mentioned

SECTION 8: Exposure Limitation and Monitoring/Personal Protective Equipment

8.1. Parameters to monitor

The mixture contains substances for which the exposure limit values have been set for the working environment.

Germany

DFG - MAK Values List 2017 (MAK)

Content name (component)	Type	Value
Diphenyl ether (CAS: 101-84-8)	MAK	1 ppm
	MAK 15min	7.1 ppm

Germany

TRGS 900

Content name (component)	Type	Value
Diphenyl ether (CAS: 101-84-8)	ASGW	7.1 mg/m ³

Germany

TRGS 900

Content name (component)	Type	Value
Diphenyl ether (vapor) (CAS: 101-84-8)	8 hours	7.1 mg/m ³
	8 hours	1 ppm
	Short-term value concentration	7.1 mg/m ³
	Short-term value concentration	1 ppm

Nuts

Sum of steam and aerosols.

European Union

Directive (EU) 2017/164

Content name (component)	Type	Value
Diphenyl ether (CAS: 101-84-8)	OEL 8 hours	7 mg/m ³
	OEL 8 hours	1 ppm
	OEL 15 minutes	14 mg/m ³

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European Union

Directive (EU) 2017/164

Content name (component)	Type	Value
Diphenyl ether (CAS: 101-84-8)	OEL 15 minutes	2 ppm

DNEL

Biphenyl			
Employees / Consumers	Path of exposure	Value	Results
Employees	Dermal	63 mg/kg bw/day	Chronic systemic effects
Employees	Inhalation	11.17 mg/m ³	Chronic local effects
Cons	Oral	1.9 mg/kg weight per day	Chronic systemic effects
Cons	Dermal	39 mg/kg body weight/day	Chronic systemic effects
Cons	Inhalation	3.3 mg/m ³	Chronic systemic effects

Diphenyl ether			
Employees / Consumers	Path of exposure	Value	Results
Employees	Inhalation	1.8 mg/m ³	Chronic systemic effects
Employees	Inhalation	7 mg/kg	Chronic local effects
Employees	Inhalation	14 mg/m ³	Acute local effects
Employees	Dermal	0.7 mg/kg bw/day	Chronic systemic effects

PNEC

Biphenyl	
Path of exposure	Value
Freshwater environment	0.017 mg/l
Seawater	0,0017 mg/l
Freshwater sediments	2.69 mg/kg dry matter sediment
Marine sediments	0,269 mg/kg dry matter sediment
Soil (agriculture)	0.528 mg/kg dry matter

Diphenyl ether	
Path of exposure	Value
Freshwater environment	0,0162 mg/l
Seawater	0,00162 mg/l
Freshwater sediments	3.29 mg/kg dry matter
Marine sediments	0,329 mg/kg dry matter
Soil (agriculture)	0.648 mg/kg dry matter

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8.2. Exposure mitigation and monitoring

Remove contaminated clothing and wash it before wearing it again. Observe the usual health measures and, above all, good ventilation. This can only be achieved by local extraction or effective full ventilation. If it is not possible to comply with the occupational exposure limit to hazardous substances, you must use appropriate respiratory protection. Do not eat, drink or smoke at work. After work and before breaks to eat and rest, wash your hands thoroughly with soap and water.

Eye/Face Protection

Safety glasses.

Skin protection

Hand protection: protective gloves, resistant to the product. Pay attention to the recommendations of the specific manufacturer of gloves when choosing thickness, material, and permeability. Keep other manufacturer's recommendations to heart. Additional protection: protective work clothing. If the skin is cleaned, rinse thoroughly.

Respiratory protection

Aerosol or mist formation: Filter device (full face mask or nozzle set) with filter: A2, A2/P2, ABEK half mask with filter against organic vapours, possibly respirator if the workplace limit values of the substances are exceeded or in a poorly ventilated environment.

Thermal hazards

Not listed.

Limiting and monitoring environmental exposure

Observe the usual environmental protection measures, see section 6.2.

SECTION 9: Physical and Chemical Properties

9.1. Information on the basic physical and chemical properties

Physical state of color	liquid
Color intensity	colorless
Fragrances	transparent
Melting point/freezing point	specific 12
Boiling point or initial and boiling range	°C
combustibility	257 °C
Bottom and Upper Explosion Limit	the specification is not
Flash Point	available the specification is
Ignition Temperature	not available 110 °C
pH Setting	the specification is not
Temperature	available 621 °C (ASTM
Kinematic Viscosity Water Solubility	D21555)
Partition coefficient n-octanol/water (logarithmic value)	non-polar / aprotic
Vapour pressure	2.48 mm ² /s at 40 °C
Density and/or relative density	insoluble
Properties of Relative Vapor	The information is not available
Density particles	<1 kPa at 20 °C

9.2. Other information

not mentioned	1064 g/cm ³ at 20 °C
	The information is not available
	The information is not available

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SECTION 10: Stability and Reactivity

10.1. Reactivity

This material is not reactive under normal environmental conditions.

10.2. Chemical stability

Under normal conditions, the product is stable.

10.3. Possibility of dangerous reactions

Not known.

10.4. Conditions to avoid

Under normal use, the product is stable, decomposition does not occur. Protect against flames, sparks, overheating and frost.

10.5. Incompatible materials

Stay away from strong acids, alkalis, and oxidizers.

10.6. Hazardous degradation products

Does not occur in normal application. At high temperatures and in the event of fire, dangerous products such as carbon dioxide and carbon monoxide are produced.

SECTION 11: Toxicological Information

11.1. Information on the hazard classes within the meaning of Regulation (EC) No 1272/2008

Inhalation of solvent vapors above levels exceeding the exposure limits for the working environment may result in acute inhalation poisoning, depending on the concentration level and exposure time. No toxicological data are available for the mixture.

Acute toxicity

Harmful if you inhale it.

Biphenyl					
Path of exposure	Parameters	Value	Exposure time	Art	Gender
Dermal	LD50	>4000 mg/kg		Rabbit	

Diphenyl ether					
Path of exposure	Parameters	Value	Exposure time	Art	Gender
Oral	LD50	2830 mg/kg		Rat (Rattus norvegicus)	F
Dermal	LD50	>7500 mg/kg		Rabbit	

Corrosive/irritating effect on the skin

Causes skin irritation.

Biphenyl			
Path of exposure	Result	Exposure time	Art
	Very annoying		People

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Severe eye damage/irritation

Causes severe eye irritation.

Biphenyl			
Path of exposure	Result	Exposure time	Art
	Slightly irritating		Rabbit
Eye	Very annoying		People

Diphenyl ether			
Path of exposure	Result	Exposure time	Art
	Slightly irritating	4 hours	Rabbit

Respiratory/skin sensitization

No data are available for the mixture or its components. On the basis of the available data, the criteria for the classification of the mixture are not met.

Germ cell mutagenicity

No data are available for the mixture or its components. On the basis of the available data, the criteria for the classification of the mixture are not met.

Carcinogenicity

No data are available for the mixture or its components. On the basis of the available data, the criteria for the classification of the mixture are not met.

Reproductive toxicity

May affect fertility if swallowed. Likely to harm the child in the womb if swallowed.

Biphenyl						
Results	Parameters	Method	Value	Result	Art	Gender
Effects on fertility	NOAEL	OECD 414	3000 ppm			
Effects on fertility	NOEL	OECD 414	500 mg/kg		Rat (Rattus norvegicus)	

Diphenyl ether						
Results	Parameters	Method	Value	Result	Art	Gender
Effects on fertility	NOAEL	OECD 414	3000 mg/kg	Effects on fertility	Rabbit	F
Effects on fertility	NOAEL	OECD 414	500 mg/kg		Rat (Rattus norvegicus)	

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Specific toxicity of the target organ at single exposure

May irritate the respiratory tract.

Biphenyl						
Path of exposure	Parameters	Value	Specific target organ	Result	Art	Gender
Inhalation			Respiratory system and hematopoietic system	Delicious		

Specific toxicity of the target organ in repeated exposure

Data for the mixture are not available. On the basis of the available data, the criteria for the classification of the mixture are not met.

Repeated dose toxicity

Biphenyl							
Path of exposure	Parameters	Result	Method	Value	Exposure time	Art	Accelerated
Oral	NOAEL		OECD 453	39 mg/kg		Rat (Rattus norvegicus)	
		No effect		>2000 mg/kg	28 days	Rabbit	

Risk of aspiration

No data are available for the mixture or its components. On the basis of the available data, the criteria for the classification of the mixture are not met.

11.2. Information on other hazards

Endocrine disrupting properties

On the basis of the available data, the criteria for the classification of the mixture are not met. Does not contain components that can cause disorders of the endocrine system in humans.

Other information

not mentioned

SECTION 12: Environmental Claims

12.1. Toxicity

Very toxic to aquatic organisms. Very toxic to aquatic organisms with long-lasting effects.

Acute toxicity

Biphenyl				
Parameters	Value	Exposure time	Art	Environment
LC50	3 mg/l	96 hours	Pimephales promelas	
EC50	0.36 mg/l	48 hours	Daphnia (Daphnia magna)	
EC50	1.3 mg/l	72 hours	Algae (Selenastrum capricornutum)	

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Biphenyl				
Parameters	Value	Exposure time	Art	Environment
NOEC	0.229 mg/l	96 hours	Fish (Oncorhynchus mykiss)	
NOEC	0.17 mg/l	21 hours	Daphnia	

Diphenyl ether				
Parameters	Value	Exposure time	Art	Environment
LC50	4.2 mg/l	96 hours	Fish (Oncorhynchus mykiss)	
EC50	1.7 mg/l	48 hours	Daphnia (Daphnia magna)	
EC50	0.455 mg/l	72 hours	Algae (Selenastrum capricornutum)	

12.2. Persistence and degradation

Data for the mixture are not available.

Biodegradability

Biphenyl				
Parameters	Value	Exposure time	Environment	Result
				Easily biodegradable

Diphenyl ether				
Parameters	Value	Exposure time	Environment	Result
				Easily biodegradable

12.3. Bioaccumulation potential

Data for the mixture are not available.

Biphenyl						
Parameters	Method	Value	Exposure time	Art	Environment	Temperature [°C]
BCF		1900				

Diphenyl ether						
Parameters	Method	Value	Exposure time	Art	Environment	Temperature [°C]
BCF	OECD 305	49-594		Fish (Cyprinus carpio)		
BCF		196		Fish (Oncorhynchus mykiss)		

12.4. Mobility on the ground

On the basis of the available data, the criteria for the classification of the mixture are not met. Does not contain PMT/vPvM components.

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Biphenyl		
Parameters	Method	Value
Log Koc	OECD 106	3,19

Diphenyl ether		
Parameters	Method	Value
Log Koc		3,3

12.5. PBT and vPvB assessment results

On the basis of the available data, the criteria for the classification of the mixture are not met. Does not contain PBT/vPvB components.

12.6. Endocrine disrupting properties

On the basis of the available data, the criteria for the classification of the mixture are not met. Does not contain any components that may impair the functioning of the endocrine system and thereby harm the environment.

12.7. Other harmful effects

Not listed.

SECTION 13: Disposal Instructions

13.1. Waste treatment processes

environmental contamination, in accordance with the Waste Act and the Implementing Regulations for Waste Disposal. Place an unused product and soiled packaging in containers marked for waste collection and give it for disposal to a person authorized to dispose of waste (specialized company) and authorized to carry out these activities. Do not pour unused product into the sewer. Must not be disposed of together with municipal waste. Empty packaging can be used for energy in a waste incineration plant or stored in a landfill of the company in question. Fully cleaned packaging can be handed over to recycling.

Waste regulations

Law on the Placing on the Market, Withdrawal and High-Quality Recycling of Packaging (Packaging Act - VerpackG) of 09 June 2021, valid from 1 January 2022. Hazardous waste according to the Waste Directory Ordinance. Decision 2000/532/EC on the establishment of a waste list with subsequent amendments.

SECTION 14: Transportation Information

14.1. UN number or ID number

UN 3082

14.2. Correct UN shipping designation

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

14.3. Transport hazard classes

9 Miscellaneous hazardous substances and objects

14.4. Packaging group

III

14.5. Environmental Hazards

Not relevant

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14.6. Special precautions for the user

Note in sections 4 to 8.

14.7. Bulk cargo transport by sea in accordance with IMO instruments

Not relevant

Read more

Hazard Identification Number UN Number

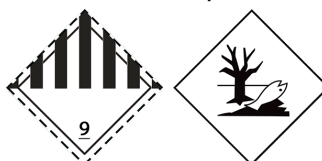
90

Classification code

3082

Safety signs

9+ Environmentally hazardous



Road traffic - ADR

Special provisions

274, 335, 375, 601

Limited numbers

5 L

Exempt quantities

E1

Packaging

Instructions

P001, IBC03, LP01, R001

Special requirements for packaging

PP1

Packaging

MP19

Transportable tanks and bulk containers

Instructions

T4

Special provisions

TP1, TP29

ADR tanks

Tank Coding

LGBV

Vehicle for transport in tanks

AT

Promotion category

3

Tunnel restriction code

(-)

Special provisions for

Packages

V12

Loading and unloading, handling

CV13

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Rail transport - RID

Special provisions 274, 335, 375, 601

Packaging

Instructions P001, IBC03, LP01, R001

Special Provisions for Packaging PP1

Packaging MP19

Transportable tanks and bulk containers

Instructions T4

Special provisions TP1, TP29

RID tanks

Tank Coding LGBV

Promotion category 3

Special provisions for

Packages W12

Loading and unloading, handling CW13

Air transport - ICAO/IATA Packing Instructions

Limited Quantity Y964 Passenger Packing

Instructions 964

Packing Instructions Load 964

Maritime Transport - IMDG

EMS (emergency plan) V-A, S-F

SECTION 15: Legislation

15.1. Safety, health and environmental protection rules/specific legislation for the substance or mixture

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

The conditions for restricting the following entries should be included: Number in List 3

REACH - List of substances of very high concern that are candidates for approval (Article 59). Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (reissue) Not applicable

Regulation (EC) No 649/2012 of the European Parliament and of the Council on the export and import of hazardous chemicals
Not applicable

REACH - List of substances covered by authorisation (Annex XIV) Not applicable

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

E1

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TA-Luft

5.2.1 : Total dust:

Not applicable

5.2.2 : Dusty inorganic substances:

Not applicable

5.2.4 : Gaseous inorganic substances:

Not applicable

5.2.5 : Organic material:

Not applicable

5.2.7.1.1 : Carcinogens:

Not applicable

5.2.7.1.1 : Fine quartz dust PM4:

Not applicable

5.2.7.1.1 : Formaldehyde:

Not applicable

5.2.7.1.1 : Fiber:

Not applicable

5.2.7.1.2 : Mutagenic substances in germ cell:

Not applicable

5.2.7.1.3 : Substances toxic to reproduction:

Other: 73.5% diphenyl ether

5.2.7.2: Poorly degradable, highly accumulative and highly toxic organic compounds:

Not applicable

Volatile organic compounds

Directive 2010/75/EU of the European Parliament and of the Council of 24 November 2010 on industrial emissions (integrated pollution prevention and control)

Not applicable

National regulations (Germany)

WGK water hazard class:

WGK 2 - clearly dangerous for water

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15.2. Chemical safety assessment

The supplier has carried out a chemical safety assessment for this substance.

Other information

Keep employment restrictions in accordance with the Law on the Protection of Mothers at Work, Training and Study (Law on Pregnancy Protection – MuSchG).

Observe occupational restrictions according to Directive 94/33/EC on the protection of young people at work or stricter national provisions, if applicable.

The components of this product are listed in the following folders: DSL

All components of this product are listed on Canadian DSL list AIIC

Is on the list or meets the requirements of the ISHL

Is on the list or meets the requirements of KECI

Is listed or meets the requirements of PICCS

Is on the list or meets the requirements of IECSC.

Is listed or meets TCSI requirements

The list states whether it meets the requirements of the ENCS

Is on the list or meets the requirements of NZIoC

Is on the list or meets the requirements TSCA

All substances are listed as active in the TSCA inventory

SECTION 16: Other Disclosures

The list of standard hazard penalties used in the Safety Data Sheet,

H315	Causes skin irritation.
H319	Causes severe eye irritation.
H332	Harmful if you inhale it.
H335	May irritate the respiratory tract.
H360Fd	May affect fertility if swallowed. Likely to harm the child in the womb if swallowed.
H400	Very toxic to aquatic organisms.
H410	Very toxic to aquatic organisms with long-lasting effects.
H412	Harmful to aquatic organisms, with long-lasting effects.

The list of safety instructions used in the safety data sheet.

P201	Request special instructions before using it.
P261	Avoid inhaling fog/vapor/aerosol.
P264	After use, wash your hands and the affected parts of the body thoroughly.
P273	Avoid letting go into the environment.
P280	Wear protective gloves.
P308+P313	IN CASE OF EXPOSURE OR IF IT IS AFFECTED: Seek medical advice/medical attention.

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P337+P313 If eye irritation persists: Seek medical advice/attention

P391 Absorb spills.

Other important information about people's safety and health

The product shall not be used for any purpose other than that specified in Section 1 without special permission from the manufacturer/importer. The user is responsible for complying with all related health protection regulations.

Legend for abbreviations and acronyms used in the safety data sheet,

Acute Tox.	Acute toxicity
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
AGW	Occupational exposure limits
Aquatic Acute	Hazardous to water (acute)
Aquatic Chronic	Hazardous to water (chronic)
BCF	Bioconcentration factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP Regulation)
EC50	The effective concentration of a substance that produces 50% of the maximum possible reaction
Ground floor	identifier for each substance specified in EINECS.
EINECS	European Inventory of Chemicals on the Market
EMS	Contingency plan
EU	European Union
EuPCS	European Product Categorization System
Eye irritation.	Eye irritation
IATA	International Association of Airlines
IBC	International regulations for the construction and equipment of ships for the transport of hazardous chemicals
ICAO	International Civil Aviation Organization
IMDG	International transport of dangerous goods by seagoing vessels
In my opinion	International Maritime Organization
INCI	International Nomenclature for Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC50	Lethal concentration of a chemical that kills 50% of a sample
LD50	Lethal concentration of a substance that causes the death of 50% of the population
log Kow	Octanole Water Distribution Coefficient
MAK	Maximum concentrations at the workplace
NOAEL	Dose with no discernible adverse effect
NOEC	Highest concentration tested with no observed adverse effect
NOEL	Dose with no discernible effect
OEL	Permissible exposure limits in the workplace
PBT	Persistent, bioaccumulative and toxic
PMT	Persistent, mobile and toxic
ppm	Parts per million
REACH	Registration, evaluation, approval and restriction of chemicals
Repetition.	Reproductive toxicity

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RID	Convention on the Transport of Dangerous Goods by Rail
Skin irritation.	Irritating effect on the skin
STOT SE	Specific toxicity of the target organ at single exposure
UN	Four-digit number as the number used to label substances or articles according to UN model regulations
UVCB	Substances of unknown or variable composition, complex reaction products and biological materials
VOC	Volatile organic compounds
vPvB	Very persistent and highly bioaccumulative
vPvM	Very persistent and very mobile

Training instructions

Familiarize employees with the recommended method of use, mandatory safety equipment, first aid, and permissible handling of the product.

Recommended limitations of the application

not mentioned

Information on the sources of the information used in the preparation of the safety data sheet

Regulation of the European Parliament and of the Council (EC) No 1907/2006 (REACH) as amended. Regulation (EC) No 1272/2008 of the European Parliament and of the Council, as amended by the Council. Details of the manufacturer of the substance/mixture, if available – information from the registration documentation. **Other**

information

Classification method - Calculation method.

Explanation

The safety data sheet contains information for the protection of occupational safety and health as well as environmental protection. The information provided reflects the current state of knowledge and experience and is in accordance with the applicable legislation. They cannot be considered as a guarantee of the suitability and applicability of the product for a specific application.