



Safety Data Sheet according to (EC) No 1907/2006 as amended

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Polyfoam PIR40BA

SDS No. : 672955
V005.0

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

1.1. Product identifier

Polyfoam PIR40BA

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

Intended use:

Polyurethane adhesive

1.3. Details of the supplier of the safety data sheet

Henkel Jebal Ali FZCO

PO Box 61341 - Jebel Ali

Dubai

Utd.Arab.Emir.

SDSinfo.Adhesive@henkel.com

For Safety Data Sheet updates please visit our website www.mysds.henkel.com or www.henkel-adhesives.com.

1.4. Emergency telephone number

HAAD Poison and Drug Information Center UAE, TOLL FREE TEL. NUMBER 800-424

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):

Carcinogenicity	Category 2
H351 Suspected of causing cancer.	
Chronic hazards to the aquatic environment	Category 3
H412 Harmful to aquatic life with long lasting effects.	
Hazardous to the ozone layer	Category 1
H420 Harms public health and the environment by destroying ozone in the upper atmosphere.	

2.2. Label elements

Label elements (CLP):

Hazard pictogram:



Contains

Tris(2-chloro-1-methylethyl) phosphate

Signal word:	Warning
Hazard statement:	H351 Suspected of causing cancer. H412 Harmful to aquatic life with long lasting effects. H420 Harms public health and the environment by destroying ozone in the upper atmosphere.
Supplemental information	Contains: Saccharose, propoxylated May produce an allergic reaction.
Precautionary statement:	P102 Keep out of reach of children. P101 If medical advice is needed, have product container or label at hand.
Precautionary statement: Prevention	P273 Avoid release to the environment.
Precautionary statement: Response	P308+P313 IF exposed or concerned: Get medical advice/attention.
Precautionary statement: Disposal	P501 Dispose of contents/container in accordance with national regulation. P502 Refer to manufacturer or supplier for information on recovery or recycling.

2.3. Other hazards

None if used properly.

Following substances are present in a concentration \geq the concentration limit for depiction in Section 3 and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

Octamethylcyclotetrasiloxane 556-67-2	PBT
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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Declaration of the ingredients according to CLP (EC) No 1272/2008:

Hazardous components CAS-No. EC Number REACH-Reg. No.	Concentration	Classification	Specific Conc. Limits, M-factors and ATEs	Add. Information
Ethane, 1,1-dichloro-1-fluoro- 1717-00-6	20- < 40 %	Aquatic Chronic 3, H412 Ozone 1, H420		
Diethylene glycol 111-46-6 203-872-2 01-2119457857-21	10- < 20 %	Acute Tox. 4, Oral, H302		
Tris(2-chloro-1-methylethyl)phosphate 13674-84-5 237-158-7 01-2119486772-26	5- < 10 %	Acute Tox. 4, Oral, H302 Carc. 2, H351 Aquatic Chronic 3, H412		
Saccharose, propoxylated 9049-71-2 500-029-3	0,1- < 1 %	Skin Sens. 1, H317 Aquatic Chronic 2, H411	oral:ATE = 2.500 mg/kg	
Cyclohexyldimethylamine 98-94-2 202-715-5 01-2119533030-60	0,1- < 1 %	Aquatic Chronic 2, H411 Flam. Liq. 3, H226 Acute Tox. 3, Oral, H301 Acute Tox. 3, Dermal, H311 Acute Tox. 3, Inhalation, H331 Skin Corr. 1B, H314 Eye Dam. 1, H318		
Octamethylcyclotetrasiloxane 556-67-2 209-136-7 01-2119529238-36	0,01- < 0,1 %	Aquatic Chronic 1, H410 Repr. 2, H361f Flam. Liq. 3, H226	M chronic = 10	SVHC PBT

If no ATE values are displayed, please refer to LD/LC50 values in Section 11.
For full text of the H - statements and other abbreviations see section 16 "Other information".

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

In case of adverse health effects seek medical advice.

Inhalation:

Move to fresh air, consult doctor if complaint persists.

Skin contact:

Rinse with running water and soap. Skin care. Remove contaminated clothes immediately.

Eye contact:

Immediately flush eyes with soft jet of water or eye rinse solution for at least 5 minutes. If pains remain (intensive smarting, sensitivity to light, visual disturbance) continue flushing and contact/seek doctor or hospital.

Ingestion:

Rinse mouth and throat. Drink 1-2 glasses of water. Seek medical advice.

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

No data available.

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

See section: Description of first aid measures

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

carbon dioxide, foam, powder, water spray jet, fine water spray

Extinguishing media which must not be used for safety reasons:

High pressure waterjet

5.2. Special hazards arising from the substance or mixture

In the event of a fire, carbon monoxide (CO) and carbon dioxide (CO₂) can be released.

5.3. Advice for firefighters

Wear self-contained breathing apparatus.

Wear protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective equipment.

Avoid contact with skin and eyes.

Ensure adequate ventilation.

Danger of slipping on spilled product.

6.2. Environmental precautions

Do not empty into drains / surface water / ground water.

6.3. Methods and material for containment and cleaning up

Remove with liquid-absorbing material (sand, peat, sawdust).

Dispose of contaminated material as waste according to Section 13.

6.4. Reference to other sections

See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Ensure that workrooms are adequately ventilated.

Avoid skin and eye contact.

Hygiene measures:

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

7.2. Conditions for safe storage, including any incompatibilities

> + 20 °C

< + 25 °C

Store in a covered, cool, well ventilated area and with the humidity up to 65% ± 5%.

Do not store together with food or other consumables (coffee, tea, tobacco, etc.).

Do not store together with oxidants.

Do not store together with flammable solutions.

7.3. Specific end use(s)

Polyurethane adhesive

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for
Utd.Arab.Emir.

None

Occupational Exposure Limits

Valid for
Bharain

None

Occupational Exposure Limits

Valid for
Egypt

None

Occupational Exposure Limits

Valid for
Jordan

None

Occupational Exposure Limits

Valid for
Kuwait

None

Occupational Exposure Limits

Valid for
Israel

None

Occupational Exposure Limits

Valid for
Kenya

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
2,2'-Oxydiethanol 111-46-6 [2,2'-OXYDIETHANOL DIETHYLENE GLYCOL]	23	100	Time-weighted average (TWA) OEL-RL:		KE OEL-RL

Biological Exposure Indices:

None

8.2. Exposure controls:**Respiratory protection:**

The product should only be used at workplaces with intensive ventilation/extraction. If intensive ventilation/extraction is not possible then self-contained independent respiratory protection should be worn.

Filter type: A (EN 14387)

Hand protection:

Use attached gloves. Perforation time < 5 minutes.

Nitrile rubber gloves should be worn.

material thickness > 0.4 mm

Perforation time > 10 minutes

Eye protection:

Goggles which can be tightly sealed.

Protective eye equipment should conform to EN166.

Skin protection:

Suitable protective clothing

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions.

Personal protective equipment should conform to the relevant EN standard.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Delivery form	liquid
Colour	Light brown
Odor	characteristic
Physical state	liquid
Melting point	Currently under determination
Initial boiling point	Currently under determination
Flammability	Currently under determination
Explosive limits	Currently under determination
Flash point	Currently under determination
Auto-ignition temperature	Currently under determination
Decomposition temperature	Currently under determination
pH	Currently under determination
Viscosity (kinematic)	Currently under determination
Viscosity, dynamic (; 40 °C (104 °F))	400 - 450 cp no method / method unknown
Solubility (qualitative)	Currently under determination
Partition coefficient: n-octanol/water	Currently under determination
Vapour pressure	Currently under determination
Density	Currently under determination
Relative vapour density:	Currently under determination
Particle characteristics	Currently under determination

9.2. Other information

No data available / Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

None if used for intended purpose.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

None if used for intended purpose.

10.5. Incompatible materials

None if used properly.

10.6. Hazardous decomposition products

None known.

SECTION 11: Toxicological information

General toxicological information:

An allergic reaction cannot be excluded after repeated skin contact.

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**Acute oral toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

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

Hazardous substances CAS-No.	Value type	Value	Species	Method
Ethane, 1,1-dichloro-1-fluoro- 1717-00-6	LD50	> 5.000 mg/kg	rat	not specified
Diethylene glycol 111-46-6	LD50	1.120 mg/kg	Human	not specified
Tris(2-chloro-1-methylethyl) phosphate 13674-84-5	LD50	632 mg/kg	rat	EU Method B.1 (Acute Toxicity (Oral))
Saccharose, propoxylated 9049-71-2	LD50	> 2.000 mg/kg	rat	not specified
Saccharose, propoxylated 9049-71-2	Acute toxicity estimate (ATE)	2.500 mg/kg		Expert judgement
Cyclohexyldimethylamine 98-94-2	LD50	272 mg/kg	rat	not specified
Octamethylcyclotetrasiloxane 556-67-2	LD50	> 4.800 mg/kg	rat	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)

Acute dermal toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

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

Hazardous substances CAS-No.	Value type	Value	Species	Method
Ethane, 1,1-dichloro-1-fluoro-1717-00-6	LD50	> 2.000 mg/kg	rabbit	not specified
Diethylene glycol 111-46-6	LD50	13.300 mg/kg	rabbit	not specified
Tris(2-chloro-1-methylethyl) phosphate 13674-84-5	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
Saccharose, propoxylated 9049-71-2	LD50	> 2.000 mg/kg	rat	not specified
Cyclohexyldimethylamine 98-94-2	LD50	380 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
Octamethylcyclotetrasiloxane 556-67-2	LD50	> 2.375 mg/kg	rat	equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity)

Acute inhalative toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

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

Hazardous substances CAS-No.	Value type	Value	Test atmosphere	Exposure time	Species	Method
Tris(2-chloro-1-methylethyl) phosphate 13674-84-5	LC50	> 7,19 mg/l	dust/mist	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)
Cyclohexyldimethylamine 98-94-2	LC50	4,5 mg/l	vapour	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)
Octamethylcyclotetrasiloxane 556-67-2	LC50	36 mg/l	dust/mist	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)

Skin corrosion/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

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

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Diethylene glycol 111-46-6	not irritating		Human, EpiDerm™ SIT (EPI-200), Reconstructed Human Epidermis (RHE)	OECD Guideline 439 (In Vitro Skin Irritation: Reconstructed Human Epidermis (RHE) Test Method)
Diethylene glycol 111-46-6	not irritating	23 h	rabbit	Draize Test
Tris(2-chloro-1-methylethyl) phosphate 13674-84-5	slightly irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Saccharose, propoxylated 9049-71-2	not irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Cyclohexyldimethylamine 98-94-2	corrosive		rabbit	not specified
Octamethylcyclotetrasiloxane 556-67-2	not irritating		rabbit	equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

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

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Diethylene glycol 111-46-6	not irritating		rabbit	not specified
Tris(2-chloro-1- methylethyl) phosphate 13674-84-5	slightly irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Saccharose, propoxylated 9049-71-2	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Cyclohexyldimethylamine 98-94-2	corrosive	8 d	rabbit	not specified
Octamethylcyclotetrasilox ane 556-67-2	not irritating		rabbit	equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

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

Hazardous substances CAS-No.	Result	Test type	Species	Method
Diethylene glycol 111-46-6	not sensitising	Guinea pig maximisation test	guinea pig	EU Method B.6 (Skin Sensitisation)
Tris(2-chloro-1- methylethyl) phosphate 13674-84-5	not sensitising	Guinea pig maximisation test	guinea pig	Magnusson and Kligman Method
Saccharose, propoxylated 9049-71-2	not sensitising	not specified	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Cyclohexyldimethylamine 98-94-2	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Octamethylcyclotetrasilox ane 556-67-2	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)

Germ cell mutagenicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

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

Hazardous substances CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Diethylene glycol 111-46-6	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Tris(2-chloro-1-methylethyl) phosphate 13674-84-5	negative	bacterial gene mutation assay	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Saccharose, propoxylated 9049-71-2	negative	bacterial reverse mutation assay (e.g Ames test)			OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Saccharose, propoxylated 9049-71-2	negative	in vitro mammalian chromosome aberration test			OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Saccharose, propoxylated 9049-71-2	negative	mammalian cell gene mutation assay			OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Cyclohexyldimethylamine 98-94-2	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Octamethylcyclotetrasiloxane 556-67-2	negative	bacterial gene mutation assay	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Octamethylcyclotetrasiloxane 556-67-2	negative	in vitro mammalian chromosome aberration test	with and without		equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Octamethylcyclotetrasiloxane 556-67-2	negative	mammalian cell gene mutation assay	with and without		equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Diethylene glycol 111-46-6	negative	intraperitoneal		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Tris(2-chloro-1-methylethyl) phosphate 13674-84-5	negative	oral: gavage		rat	not specified
Octamethylcyclotetrasiloxane 556-67-2	negative	inhalation		rat	equivalent or similar to OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test)
Octamethylcyclotetrasiloxane 556-67-2	negative	oral: gavage		rat	equivalent or similar to OECD Guideline 478 (Genetic Toxicology: Rodent Dominant Lethal Test)

Carcinogenicity

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Sex	Method
Tris(2-chloro-1-methylethyl) phosphate 13674-84-5	carcinogenic	oral: feed	104 w daily	mouse	male/female	other guideline:

Reproductive toxicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

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

Hazardous substances CAS-No.	Result / Value	Test type	Route of application	Species	Method
Octamethylcyclotetrasiloxane 556-67-2	NOAEL P 300 ppm NOAEL F1 300 ppm	two-generation study	inhalation	rat	equivalent or similar to OECD Guideline 416 (Two-Generation Reproduction Toxicity Study)

STOT-single exposure:

No data available.

STOT-repeated exposure:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

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

Hazardous substances CAS-No.	Result / Value	Route of application	Exposure time / Frequency of treatment	Species	Method
Diethylene glycol 111-46-6	NOAEL 936 mg/kg	oral: feed	4 weeks daily	rat	OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)
Tris(2-chloro-1-methylethyl) phosphate 13674-84-5	NOAEL 800 - 7500 ppm	oral: feed	90 days ad libitem	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Octamethylcyclotetrasiloxane 556-67-2	LOAEL 35 ppm	inhalation	6 h nose only inhalation 5 days/week for 13 weeks	rat	OECD Guideline 412 (Repeated Dose Inhalation Toxicity: 28/14-Day)
Octamethylcyclotetrasiloxane 556-67-2	NOAEL 960 mg/kg	dermal	3 w 5 d/w	rabbit	equivalent or similar to OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)

Aspiration hazard:

No data available.

11.2 Information on other hazards

not applicable

SECTION 12: Ecological information

General ecological information:

Do not empty into drains, soil or bodies of water.

12.1. Toxicity**Toxicity (Fish):**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Ethane, 1,1-dichloro-1-fluoro-1717-00-6	LC50	126 mg/l	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Diethylene glycol 111-46-6	LC50	75.200 mg/l	96 h	Pimephales promelas	other guideline:
Diethylene glycol 111-46-6	NOEC	15.380 mg/l	7 d	Pimephales promelas	other guideline:
Tris(2-chloro-1-methylethyl) phosphate 13674-84-5	LC50	51 mg/l	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
Saccharose, propoxylated 9049-71-2	LC50	> 100 mg/l	96 h	not specified	OECD Guideline 203 (Fish, Acute Toxicity Test)
Cyclohexyldimethylamine 98-94-2	LC50	22 - 46 mg/l	96 h	Leuciscus idus	DIN 38412-15
Octamethylcyclotetrasiloxane 556-67-2	NOEC	0,0044 mg/l	93 d	Salmo gairdneri (new name: Oncorhynchus mykiss)	EPA OPPTS 797.1600 (Fish Early Life Stage Toxicity Test)
Octamethylcyclotetrasiloxane 556-67-2	LC50	Toxicity > Water solubility	96 h	Oncorhynchus mykiss	EPA OTS 797.1400 (Fish Acute Toxicity Test)

Toxicity (aquatic invertebrates):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Ethane, 1,1-dichloro-1-fluoro-1717-00-6	EC50	31,2 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Diethylene glycol 111-46-6	EC50	> 10.000 mg/l	24 h	Daphnia magna	DIN 38412, part 11
Tris(2-chloro-1-methylethyl) phosphate 13674-84-5	EC50	131 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Saccharose, propoxylated 9049-71-2	EC50	> 100 mg/l	48 h	Daphnia sp.	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Cyclohexyldimethylamine 98-94-2	EC50	75 mg/l	48 h	other aquatic arthropod:	EU Method C.2 (Acute Toxicity for Daphnia)
Octamethylcyclotetrasiloxane 556-67-2	EC50	Toxicity > Water solubility	48 h	Daphnia magna	EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids)

Chronic toxicity (aquatic invertebrates):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
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CAS-No.	type				
Diethylene glycol 111-46-6	NOEC	8.590 mg/l	7 d	Ceriodaphnia dubia	other guideline:
Tris(2-chloro-1-methylethyl) phosphate 13674-84-5	NOEC	32 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
Saccharose, propoxylated 9049-71-2	NOEC	0,32 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
Octamethylcyclotetrasiloxane 556-67-2	NOEC	7.9 µg/l	21 d	Daphnia magna	EPA OTS 797.1330 (Daphnid Chronic Toxicity Test)

Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Ethane, 1,1-dichloro-1-fluoro-1717-00-6	EC50	> 44 mg/l	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Ethane, 1,1-dichloro-1-fluoro-1717-00-6	NOEC	> 44 mg/l	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Diethylene glycol 111-46-6	EC50	> 1.000 mg/l	72 h	not specified	OECD Guideline 201 (Alga, Growth Inhibition Test)
Diethylene glycol 111-46-6	NOEC	> 100 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Tris(2-chloro-1-methylethyl) phosphate 13674-84-5	EC50	82 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Tris(2-chloro-1-methylethyl) phosphate 13674-84-5	EC10	42 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Saccharose, propoxylated 9049-71-2	NOEC	12 mg/l	72 h	not specified	OECD Guideline 201 (Alga, Growth Inhibition Test)
Cyclohexyldimethylamine 98-94-2	EC50	> 2 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Cyclohexyldimethylamine 98-94-2	NOEC	0,0625 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Octamethylcyclotetrasiloxane 556-67-2	EC50	Toxicity > Water solubility	96 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	EPA OTS 797.1050 (Algal Toxicity, Tiers I and II)
Octamethylcyclotetrasiloxane 556-67-2	EC10	0,022 mg/l	96 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	EPA OTS 797.1050 (Algal Toxicity, Tiers I and II)

Toxicity (microorganisms):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Diethylene glycol 111-46-6	EC20	> 1.995 mg/l	30 min	activated sludge, domestic	ISO 8192 (Test for Inhibition of Oxygen Consumption by Activated Sludge)
Tris(2-chloro-1-methylethyl) phosphate 13674-84-5	EC50	784 mg/l	3 h	activated sludge	ISO 8192 (Test for Inhibition of Oxygen Consumption by Activated Sludge)
Saccharose, propoxylated 9049-71-2	EC50	> 100 mg/l	3 h	activated sludge	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Cyclohexyldimethylamine 98-94-2	EC10	137 mg/l	17 h		not specified
Octamethylcyclotetrasiloxane 556-67-2	EC50	Toxicity > Water solubility	3 h	activated sludge	ISO 8192 (Test for Inhibition of Oxygen Consumption by Activated Sludge)

12.2. Persistence and degradability

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
Ethane, 1,1-dichloro-1-fluoro-1717-00-6			2 - 3 %	28 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Diethylene glycol 111-46-6	inherently biodegradable	aerobic	100 %	14 d	EU Method C.9 (Biodegradation: Zahn-Wellens Test)
Diethylene glycol 111-46-6	readily biodegradable	aerobic	61 - 77 %	30 d	EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle Test)
Tris(2-chloro-1-methylethyl) phosphate 13674-84-5	not readily biodegradable.	aerobic	0 %	28 d	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))
Saccharose, propoxylated 9049-71-2	not readily biodegradable.	aerobic	22 %	28 d	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
Saccharose, propoxylated 9049-71-2	inherently biodegradable	aerobic	84 %	21 d	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)
Cyclohexyldimethylamine 98-94-2	inherently biodegradable	aerobic	88 %	24 d	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)
Cyclohexyldimethylamine 98-94-2	readily biodegradable	aerobic	90 - 100 %	18 d	OECD Guideline 301 A (new version) (Ready Biodegradability: DOC Die Away Test)
Octamethylcyclotetrasiloxane 556-67-2	not readily biodegradable.	aerobic	3,7 %	29 d	OECD Guideline 310 (Ready Biodegradability CO ₂ in Sealed Vessels (Headspace Test))

12.3. Bioaccumulative potential

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Bioconcentration factor (BCF)	Exposure time	Temperature	Species	Method
Ethane, 1,1-dichloro-1-fluoro-1717-00-6	2,6	7 d		Danio rerio	OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)
Diethylene glycol 111-46-6	100	3 d		Leuciscus idus melanotus	other guideline:
Tris(2-chloro-1-methylethyl) phosphate 13674-84-5	> 0,8 - < 2,8	42 d		no data	OECD Guideline 305 C (Bioaccumulation: Test for the Degree of Bioconcentration in Fish)
Saccharose, propoxylated 9049-71-2	29,76				not specified
Octamethylcyclotetrasiloxane 556-67-2	12.400	28 d		Pimephales promelas	EPA OTS 797.1520 (Fish Bioconcentration Test-Rainbow Trout)

12.4. Mobility in soil

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	LogPow	Temperature	Method
Diethylene glycol 111-46-6	-1,98		QSAR (Quantitative Structure Activity Relationship)
Tris(2-chloro-1-methylethyl) phosphate 13674-84-5	2,68		OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
Saccharose, propoxylated 9049-71-2	3,13		not specified
Cyclohexyldimethylamine 98-94-2	2,01	25 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
Octamethylcyclotetrasiloxane 556-67-2	6,98	21,7 °C	other guideline:

12.5. Results of PBT and vPvB assessment

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	PBT / vPvB
Diethylene glycol 111-46-6	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Tris(2-chloro-1-methylethyl) phosphate 13674-84-5	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Cyclohexyldimethylamine 98-94-2	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Octamethylcyclotetrasiloxane 556-67-2	Fulfilling PBT criteria

12.6. Endocrine disrupting properties

not applicable

12.7. Other adverse effects

No data available.

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

Product disposal:

Dispose of waste and residues in accordance with local authority requirements.

Disposal of uncleaned packages:

Use packages for recycling only when totally empty.

Waste code

080409

SECTION 14: Transport information**14.1. UN number or ID number**

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

14.2. UN proper shipping name

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

14.3. Transport hazard class(es)

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

14.4. Packing group

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

14.5. Environmental hazards

ADR	not applicable
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

14.6. Special precautions for user

ADR	not applicable
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

No information available:

Ozone Depleting Substance (ODS) (Regulation (EC) No 2024/590):	Ethane, 1,1-dichloro-1-fluoro- CAS 1717-00-6
Persistent organic pollutants (Regulation (EU) 2019/1021):	Not applicable

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

H226 Flammable liquid and vapour.
 H301 Toxic if swallowed.
 H302 Harmful if swallowed.
 H311 Toxic in contact with skin.
 H314 Causes severe skin burns and eye damage.
 H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H331 Toxic if inhaled.
 H351 Suspected of causing cancer.
 H361f Suspected of damaging fertility.
 H410 Very toxic to aquatic life with long lasting effects.
 H411 Toxic to aquatic life with long lasting effects.
 H412 Harmful to aquatic life with long lasting effects.
 H420 Harms public health and the environment by destroying ozone in the upper atmosphere.

ED:	Substance identified as having endocrine disrupting properties
EU OEL:	Substance with a Union workplace exposure limit
EU EXPLD 1:	Substance listed in Annex I, Reg (EC) No. 2019/1148
EU EXPLD 2	Substance listed in Annex II, Reg (EC) No. 2019/1148
SVHC:	Substance of very high concern (REACH Candidate List)
PBT:	Substance fulfilling persistent, bioaccumulative and toxic criteria
PBT/vPvB:	Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very bioaccumulative criteria
vPvB:	Substance fulfilling very persistent and very bioaccumulative criteria

Further information:

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

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Product is intended for professional use.

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