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

1.1 Product identifier

Trade name/designation joke Hyprez® F Diamantpasten

Hazard components
octadecylamine, Polyoxyethylene phenyl ether phosphate

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

Sector of uses [SU]
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
SU3 Industrial uses

* **Product Categories [PC]**
PC31 Polishes and wax blends

Use of the substance/mixture
Cutting, grinding, polishing
Polishing agent

* **Uses advised against**
No data available

1.3 Details of the supplier of the safety data sheet

Supplier
joke Technology GmbH
Asselborner Weg 14-16
D-51249 Bergisch Gladbach
Telephone +49 (0) 22 04 / 8 39-0
Telefax +49 (0) 22 04 / 8 39-60
E-mail info@joke.de
Website https://www.joke-technology.com/

Department responsible for information:
Telephone +49 (0) 22 04 / 8 39-0
Telefax +49 (0) 22 04 / 8 39-60

E-mail (competent person):
sida@joke.de

1.4 Emergency telephone number

Vergiftungs-I-Z. Freiburg (Sprache / Language: DE, EN)	+49 (0) 761 / 1 92 40
REACH and CLP UK CA Help Desk	+44 171 635 9191

* SECTION 2: Hazards identification

* 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]	Classification procedure
Skin Irrit. 2, H315	
Eye Dam. 1, H318	
STOT RE 2, H373	
Asp. Tox. 1, H304	
Aquatic Acute 1, H400	
Aquatic Chronic 1, H410	

Hazard statements for health hazards
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H373 May cause damage to organs through prolonged or repeated exposure.

Hazard statements for environmental hazards
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

* 2.2 Label elements

* **Labelling according to Regulation (EC) No 1272/2008 [CLP]**

Hazard components
octadecylamine, Polyoxyethylene phenyl ether phosphate

Hazard pictograms

GHS05

GHS08

GHS09

Signal word
Danger

Hazard statements
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H373 May cause damage to organs through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.

* **Precautionary statements**
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing and eye protection/face protection.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P321 Special treatment (see section 4 Reference to supplementary first aid instructions - if emergency measures are required)
P331 Do NOT induce vomiting.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P405 Store locked up.
P501 Dispose of contents and containers in accordance with local, regional, national and international regulations.

* **Remark**
The product is classified and labeled according to CLP regulation.

* 2.3 Other hazards

* **Adverse human health effects and symptoms**
Determination of endocrine disrupting properties:
CAS: 128-37-0 Butylhydroxytoluene - List II

* **Results of PBT and vPvB assessment**
This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

* **Endocrine disrupting properties**

Effective dose	Method,Evaluation	Source, Remark
CAS No128-37-0 Butylhydroxytoluol	List II	

* SECTION 3: Composition / information on ingredients

3.1 Substances

not applicable

* 3.2 Mixtures

Hazardous ingredients

CAS No	EC No	Index No	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
124-30-1	204-695-3	612-282-00-8	octadecylamine	5 - 15 weight-%	Asp. Tox. 1; H304 STOT RE 2; H373(gastro-intestinal tract, liver, immune system) Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	M=10 (Aquatic Acute 1) M=10 (Aquatic Chronic 1) ATE(oral): 1020 mg/kg ATE(dermal): > 2000 mg/kg ATE(inhalation gas): > 0.1 mg/L
39464-70-5	NA	NA	Polyoxyethylene phenyl ether phosphate	1 - 10 weight-%	Skin Irrit. 2; H315 Eye Dam. 1; H318	
68526-94-3	614-570-9	NA	Alcohols, C12-20, ethoxylated	1 - 5 weight-%	Aquatic Acute 1; H400	
128-37-0	204-881-4		Butylhydroxytoluol	≤ 1 weight-%	Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	ATE(oral): > 6000 mg/kg ATE(oral): 890 mg/kg ATE(dermal): > 2000 mg/kg ATE(Acute inhalation toxicity): > 2 mg/L
7664-38-2	231-633-2	015-011-00-6	phosphoric acid ...%	< 0.5 weight-%	Skin Corr. 1B; H314	Skin Corr. 1B;H314: C>=25% Skin Irrit. 2;H315: 10%<=C<25% Eye Irrit. 2;H319: 10%<=C<25%
123-91-1	204-661-8	603-024-00-5	1,4-dioxane	< 0.05 weight-%	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H335 Carc. 1B; H350; EUH019 EUH066	ATE(oral): 5700 mg/kg ATE(oral): approx. 5150 mg/kg ATE(dermal): 2100 mg/kg ATE(dermal): 7600 mg/kg ATE(Acute inhalation toxicity): > 155 mg/L ATE(Acute inhalation toxicity): 46 mg/L

REACH No.	Substance name
01-2119473804-32	octadecylamine

* SECTION 4: First aid measures

* 4.1 Description of first aid measures

* **General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
Remove contaminated, saturated clothing immediately.
Medical examination necessary even merely on suspicion of intoxication.
Symptoms may develop several hours following exposure; medical observation therefore necessary for at least

48 hours.

* **Following inhalation**
In case of unconsciousness and breathing, place the patient in the recovery position and seek medical advice.

Following skin contact
After contact with skin, wash immediately with plenty of water and soap.
Remove contaminated, saturated clothing immediately.
In case of skin irritation, consult a physician.

After eye contact
Remove contact lenses, if possible
After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.
Seek medical advice immediately.

* **Following ingestion**
Do NOT induce vomiting.
Silence.
Seek medical advice immediately.
If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

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

* **Symptoms**
Causes severe eye irritation.
Irritating

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor
Treat symptomatically.

* SECTION 5: Firefighting measures

* **5.1 Extinguishing media**

* **Suitable extinguishing media**
Foam
Water spray
Dry extinguishing powder
Carbon dioxide (CO2)

Unsuitable extinguishing media
Full water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products
Carbon monoxide
Carbon dioxide (CO2)

* **5.3 Advice for firefighters**

* **Special protective equipment for firefighters**
In case of fire: Wear self-contained breathing apparatus.
Protective clothing.

Additional information

Use water spray jet to protect personnel and to cool endangered containers.
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

* SECTION 6: Accidental release measures

* 6.1 Personal precautions, protective equipment and emergency procedures

* **For non-emergency personnel**

Provide adequate ventilation.
Avoid contact with skin and eyes.
Keep people away and stay on the upwind side.
Use personal protection equipment.
Remove all sources of ignition.

* **For emergency responders**

Personal protection equipment
Use appropriate respiratory protection.
Use breathing apparatus if exposed to vapours/dust/aerosol.

* 6.2 Environmental precautions

Do not allow to enter into surface water or drains.
In case of pollution of waters or sewers, inform the competent authorities.
Do not allow to enter into soil/subsoil.

* 6.3 Methods and material for containment and cleaning up

* **For containment**

After taking up the material dispose according to regulation.
Take up mechanically and send for disposal.
Use chemical neutralizers.

* 6.4 Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

* SECTION 7: Handling and storage

* 7.1 Precautions for safe handling

* **Protective measures**

Use only in well-ventilated areas.
When using do not eat, drink, smoke, sniff.
Wear personal protection equipment (refer to section 8).
Only allow access to authorised staff.
Do not breathe gas/fumes/vapour/spray.
Keep away from sources of ignition - No smoking.
Avoid effect of heat.
Avoid:
Eye contact
Skin contact

* **Advices on general occupational hygiene**
Make available sufficient washing facilities
Avoid contact with skin, eyes and clothes.
Wash hands before breaks and after work.
When using do not eat, drink, smoke, sniff.
Wash contaminated clothing immediately.
Work in rooms with good ventilation.

* 7.2 Conditions for safe storage, including any incompatibilities

* **Packaging materials:**
Glass, carbon steel, stainless steel, polyethylene, polypropylene, polyester
It is recommended to test the compatibility with certain plastic materials.

* **Requirements for storage rooms and vessels**
Store in tightly closed containers.
Ensure adequate ventilation of the storage area.

* **Materials to avoid**
Keep at distance to ignition device, water and alkalies.
Do not store together with:
Food and feedingstuffs
Oxidising agent
Strong alkali

Further information on storage conditions
Protect from direct solar radiation.
Storage temperature may not exceed 50°C (=122°F).

* 7.3 Specific end use(s)

* **Recommendation**
This information is not available.

* SECTION 8: Exposure controls/personal protection

* 8.1 Control parameters

* **Occupational exposure limit values**

CAS No	EC No	Substance name	occupational exposure limit value
7664-38-2	231-633-2	Orthophosphoric acid	1 [mg/m³] Short-term(mg/m³) 2 2000/39/EC
123-91-1	204-661-8	1,4 Dioxane	20 [ml/m³(ppm)] 73 [mg/m³] 2009/161/EU

* 8.2 Exposure controls

* **Appropriate engineering controls**

* **Remark**
Emergency eye showers and rescue showers should be available in the immediate vicinity of any potential exposure
be available.

Technical measures to prevent exposure
ventilation system

* **Personal protection equipment**

* **Eye/face protection**
tightly fitting goggles

* **Hand protection**
It is recommended to check the chemical resistance of the specified protective gloves for special applications with the glove manufacturer.
Breakthrough times and swelling properties of the material must be taken into consideration.
Since the product is a
preparation of several substances, the resistance of the glove materials cannot be
predictable and must therefore be checked before use.

Body protection:
Impermeable protective clothing

* **Respiratory protection**
Respiratory protection necessary at:
insufficient ventilation
Self-contained respirator (breathing apparatus)

* **Remark**
Check leak tightness/impermeability prior to use.

Environmental exposure controls

Technical measures to prevent exposure
Take appropriate protective measures to limit or prevent emissions.

Additional information
The national and local legal regulations are to be observed.

* SECTION 9: Physical and chemical properties

* 9.1 Information on basic physical and chemical properties

* **Physical state**
solid

Colour
various, depending on coloration

Odour
odourless

Safety relevant basis data

	Value	Method	Source, Remark
Odour threshold:	not determined		
Melting point/freezing point	Melting point 75 °C		
Boiling point or initial boiling point and boiling range	> 204.4 °C		
flammability	not determined		
Lower and upper explosion limit	not determined		

	Value	Method	Source, Remark
Flash point	> 121 °C	This information is not available.	
Auto-ignition temperature			The product is not self-igniting.
Decomposition temperature	not determined		
pH	not determined		
Viscosity	Kinematic viscosity 0.9 (60°C)		CAS No124-30-1 octadecylamine
Viscosity	Kinematic viscosity 3.47 (0°C)	ASTM D445	CAS No128-37-0 Butylhydroxytoluol
Viscosity	Kinematic viscosity 1.27 (20°C)	OECD 114	CAS No123-91-1 1,4-dioxane
Solubility(ies)	Water solubility		practically insoluble
Partition coefficient n-octanol/water (log value)	7.71		CAS No124-30-1 octadecylamine
Partition coefficient n-octanol/water (log value)	1.02		CAS No39464-70-5 Polyoxyethylene phenyl ether phosphate
Partition coefficient n-octanol/water (log value)	5.47		CAS No68526-94-3 Alcohols, C12-20, ethoxylated
Partition coefficient n-octanol/water (log value)	4.17 (37°C)		CAS No128-37-0 Butylhydroxytoluol
Partition coefficient n-octanol/water (log value)	-0.42		CAS No123-91-1 1,4-dioxane
Vapour pressure	not determined		
Density and/or relative density	Relative density approx. 1		
Relative vapour density	not determined		
particle characteristics	not determined		

*** 9.2 Other information**

*** Other safety characteristics**

	Value	Method	Source, Remark
Solvent content	< 0.1 %		
Solid content	100 %		
Surface tension	51.3 mN/m (20°C) Concentration 1 g/L	OECD 115	CAS No124-30-1 octadecylamine
Surface tension	37 mN/m (20°C)		CAS No123-91-1 1,4-dioxane
Explosive properties			The product is not explosive.

* SECTION 10: Stability and reactivity

10.1 Reactivity

No hazardous reactions known.

* 10.2 Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 Possibility of hazardous reactions

No hazardous reactions known.

* 10.4 Conditions to avoid

This information is not available.

10.5 Incompatible materials

Alkali (lye), concentrated
Oxidising agent, strong
Testing compatibility with certain plastic materials is recommended.

* 10.6 Hazardous decomposition products

Carbon monoxide
Carbon dioxide
Nitrogen oxides (NOx)

* SECTION 11: Toxicological information

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

* Acute toxicity

* Animal data

	Effective dose	Method,Evaluation	Source, Remark
Acute oral toxicity	LD50: ≥ 89000 mg/kg Species Rat	LD50	
	CAS No124-30-1 octadecylamine LD50: 1020 mg/kg Species Rat		
	CAS No128-37-0 Butylhydroxytoluol LD50: 890 mg/kg Species Rat		
	CAS No128-37-0 Butylhydroxytoluol LD50: > 6000 mg/kg Species Rabbit	OECD 401	
	CAS No123-91-1 1,4-dioxane LD50: 5700 mg/kg Species Mouse		

	Effective dose	Method,Evaluation	Source, Remark
	CAS No123-91-1 1,4-dioxane LD50: approx. 5150 mg/kg Species Rat	OECD 401	
Acute dermal toxicity	CAS No124-30-1 octadecylamine LD50: > 2000 mg/kg Species Rat	OECD 402	
	CAS No128-37-0 Butylhydroxytoluol LD50: > 2000 mg/kg Species Rat	OECD 402	
	CAS No128-37-0 Butylhydroxytoluol LD50: > 2000 mg/kg Species Rabbit		
	CAS No123-91-1 1,4-dioxane LD50: 2100 mg/kg Species Rabbit		
	CAS No123-91-1 1,4-dioxane LD50: 7600 mg/kg Species Rabbit		
Acute inhalation toxicity	LC50: > 0.1 mg/L Species Rat Exposure time 4 h	OECD 403	
	CAS No128-37-0 Butylhydroxytoluol LC50: > 2 mg/L Species Rat		
	CAS No123-91-1 1,4-dioxane LC50: > 155 mg/L Species Rat Exposure time 4 h		
	CAS No123-91-1 1,4-dioxane LC50: 46 mg/L Species Rat Exposure time 1 h	OECD 403	
	CAS No124-30-1 octadecylamine Acute inhalation toxicity (gas) LC50: > 0.1 mg/L Species Rat Exposure time 1 h	OECD 403	

Skin corrosion/irritation

Animal data

Result / Evaluation	Method	Source, Remark
Causes skin irritation.		

Serious eye damage/irritation

Animal data

Result / Evaluation	Method	Source, Remark
Causes serious eye damage.		

* **Sensitisation to the respiratory tract**

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

* **Skin sensitisation**

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

* **Germ cell mutagenicity**

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

* **Carcinogenicity**

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

* **Reproductive toxicity**

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

* **Overall Assessment on CMR properties**

The mixture is not classified as mutagenic / not classified as carcinogenic / not classified as toxic for reproduction

* **STOT-single exposure**

* **STOT SE 1 and 2**

* **Other information**
May cause drowsiness or dizziness.
May cause respiratory irritation.

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

* **STOT-repeated exposure**

* **Animal data**

	Effective dose	Method	Specific effects:	Organs affected:	Source, Remark
Oral specific target organ toxicity (repeated exposure)	CAS No124-30-1 octadecylamine NOAEL(C): 3.25 mg/kg Species Rat Exposure duration 90 d				

Other information
May cause damage to organs through prolonged or repeated exposure.

* **Aspiration hazard**

* **Assessment/classification**
May be fatal if swallowed and enters airways.

Remark
This information is not available.

11.2 Information on other hazards

Information on other hazards

	Effective dose	Method,Evaluation	Source, Remark
Endocrine disrupting properties	CAS No128-37-0 Butylhydroxytoluol	List II	

Other information
This information is not available.

* SECTION 12: Ecological information

* **12.1 Toxicity**

* **Aquatic toxicity**

	Effective dose	Method,Evaluation	Source, Remark
Acute (short-term) fish toxicity	CAS No124-30-1 octadecylamine LC50: 4.21 mg/L Species Danio rerio (zebrafish)		
	CAS No124-30-1 octadecylamine LC50: 1- 10 mg/L		
	CAS No39464-70-5 Polyoxyethylene phenyl ether phosphate LC50: 1227.712 mg/L		
	CAS No128-37-0 Butylhydroxytoluol LC50: 0.199 mg/L Test duration 96 h		
	CAS No7664-38-2 phosphoric acid ...% LC50: 75.1 mg/L		
	CAS No123-91-1 1,4-dioxane LC50: 10800 mg/L Species Pimephales promelas (fathead minnow)		
	CAS No39464-70-5 Polyoxyethylene phenyl ether phosphate LC50: 1227.712 mg/L		

	Effective dose	Method,Evaluation	Source, Remark
Chronic (long-term) fish toxicity	CAS No123-91-1 1,4-dioxane NOEC 145 mg/L Species Pimephales promelas (fathead minnow) Test duration 32 d		
Acute (short-term) toxicity to crustacea	EC50 0.32 mg/L Species Daphnia magna (Big water flea)		
	EC50 1.7 mg/L		
	CAS No128-37-0 Butylhydroxytoluol EC50 0.48 mg/L Species Daphnia magna (Big water flea) Test duration 48 h	OECD 202	
	CAS No7664-38-2 phosphoric acid ...% EC50 > 100 mg/L Species Daphnia magna (Big water flea)		
	CAS No123-91-1 1,4-dioxane EC50 > 1000 mg/L Test duration 48 h	OECD 202	
	CAS No124-30-1 octadecylamine EC50 0.32 mg/L Species Daphnia magna (Big water flea)		
	CAS No124-30-1 octadecylamine EC50 1.7 mg/L		
Chronic (long-term) toxicity to aquatic invertebrate	CAS No124-30-1 octadecylamine LOEC: 0.032 mg/L Species Daphnia magna (Big water flea) Test duration 21 d		
	CAS No124-30-1 octadecylamine NOEC 0.013 mg/L Species Daphnia magna (Big water flea) Test duration 21 d		
	CAS No123-91-1 1,4-dioxane NOEC 1000 mg/L Species Daphnia magna (Big water flea) Test duration 21 d		
Acute (short-term) toxicity to algae and cyanobacteria	CAS No124-30-1 octadecylamine EC50 0.46 mg/L Species Desmodesmus subspicatus Test duration 72 h		

	Effective dose	Method,Evaluation	Source, Remark
	CAS No124-30-1 octadecylamine EC50 0.38 mg/L Species Desmodesmus subspicatus Test duration 72 h		
	CAS No124-30-1 octadecylamine ErC50: 0.12 mg/L Species Desmodesmus subspicatus	OECD 201	
	CAS No39464-70-5 Polyoxyethylene phenyl ether phosphate EC50 185.62 mg/L Test duration 96 h		
	CAS No128-37-0 Butylhydroxytoluol EC50 > 0.24 mg/L Species Pseudokirchnerella subcapitata Test duration 72 h	OECD 201	
	CAS No128-37-0 Butylhydroxytoluol ErC50: 0.758 mg/L Species Selenastrum capricornutum Test duration 96 h		
	CAS No128-37-0 Butylhydroxytoluol ErC50: 6 mg/L Species Selenastrum capricornutum Test duration 72 h		
	CAS No7664-38-2 phosphoric acid ...% EC50 > 100 mg/L Species Desmodesmus subspicatus Test duration 72 h		
	EC10 > 1000 mg/L Species Pseudokirchnerella subcapitata	OECD 201	
	CAS No39464-70-5 Polyoxyethylene phenyl ether phosphate EC50 185.62 mg/L Test duration 96 h		
Chronic (long-term) toxicity to aquatic algae and cyanobacteria	not determined		
Toxicity to other aquatic plants/organisms	not determined		
Toxicity to microorganisms	not determined		

* 12.2 Persistence and degradability

	Value	Method	Source, Remark
Biodegradation			CAS No124-30-1 octadecylamine Readily biodegradable (to OECD criteria)
Biodegradation			CAS No128-37-0 Butylhydroxytoluol Not readily biodegradable in water
Biodegradation			CAS No123-91-1 1,4-dioxane Not readily biodegradable in water

* 12.3 Bioaccumulative potential

	Value	Method	Source, Remark
Bioconcentration factor (BCF)	Bioconcentration factor (BCF) > 500		CAS No124-30-1 octadecylamine Low potential for bioaccumulation.
Bioconcentration factor (BCF)	Bioconcentration factor (BCF) 4.17		CAS No128-37-0 Butylhydroxytoluol Potential for bioaccumulation (4 ≤ Log Kow ≤ 5).
Bioconcentration factor (BCF)	Cyprinus carpio (Common Carp) Bioconcentration factor (BCF) 0.2- 0.7	OECD 305	CAS No123-91-1 1,4-dioxane Low potential for bioaccumulation (BCF < 500)

Assessment/classification
No data available

12.4 Mobility in soil

Assessment/classification
No data available

* 12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

* Additional ecotoxicological information

	Value	Method	Source, Remark
Chemical oyxgen demand (COD)	2.27 mgO2/g		CAS No128-37-0 Butylhydroxytoluol

	Value	Method	Source, Remark
Biochemical oxygen demand	0.51 mgO2/g		CAS No128-37-0 Butylhydroxytoluol

* **Additional information**
Very toxic to aquatic organisms
Product is not allowed to be discharged into the ground water or aquatic environment.
Product is not allowed to be discharged into aquatic environment, drains or sewage treatment plants.
Danger to drinking water even in the event of leakage of the smallest quantities into the subsurface.

* SECTION 13: Disposal considerations

* 13.1 Waste treatment methods

Waste codes/waste designations according to EWC/AVV

Waste code product	Waste name
110199	wastes not otherwise specified

* **Appropriate disposal / Product**
Dispose of waste according to applicable legislation.
Must not be disposed together with household garbage.

Appropriate disposal / Package
Dispose of according to official regulations.

SECTION 14: Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN number or ID number	UN 3077	UN 3077	UN 3077
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	Environmentally hazardous substance, solid, n.o.s.
14.3 Transport hazard class(es)	9	9	9
14.4 Packing group	III	III	III
14.5 Environmental hazards	ENVIRONMENTALLY HAZARDOUS	ENVIRONMENTALLY HAZARDOUS Marine pollutant	ENVIRONMENTALLY HAZARDOUS

14.6 Special precautions for user

No data available

14.7 Maritime transport in bulk according to IMO instruments

No data available

Land transport (ADR/RID)

UN number or ID number	UN 3077
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Transport hazard class(es)	9

Hazard label(s)	9
Classification code	M7
Packing group	III
Environmental hazards	ENVIRONMENTALLY HAZARDOUS
Limited quantity (LQ)	5 kg
Special provisions	274, 335, 375, 601
Tunnel restriction code	-

Sea transport (IMDG)

UN number or ID number	UN 3077
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Transport hazard class(es)	9
Packing group	III
Environmental hazards	ENVIRONMENTALLY HAZARDOUS
Limited quantity (LQ)	5 kg
Marine pollutant	Yes.
EmS	F-A, S-F

Air transport (ICAO-TI / IATA-DGR)

UN number or ID number	UN 3077
UN proper shipping name	Environmentally hazardous substance, solid, n.o.s.
Transport hazard class(es)	9
Packing group	III
Environmental hazards	ENVIRONMENTALLY HAZARDOUS

* SECTION 15: Regulatory information

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

*** EU legislation**

Authorisations
No data available

Restrictions on use
No data available

*** Other regulations (EU)**

To follow:
No data available

*** Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive] VOC**
VOC content, delivery state < 0.05 %

15.2 Chemical Safety Assessment

*** National regulations**

Chemical safety assessments for substances in this mixture were not carried out.

* SECTION 16: Other information

* **Indication of changes**

* Data changed compared with the previous version

* **Abbreviations and acronyms**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG: International Maritime Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service
VOC: Volatile organic compounds
LC50: Lethal (fatal) Concentration 50%
LD50: Lethal (fatal) Dose 50%
PBT: persistent and bioaccumulative and toxic
vPvB: very persistent, very bioaccumulative
SVHC: Substance of Very High Concern
Flam. Liq. 2: Flammable Liquids, Category 2
Acute Tox. 4, H302: Acute Toxicity (oral), Category 4
Skin Corr. 1B: Skin corrosion, Sub-category 1B
Eye Dam. 1: Serious eye damage, Category 1
Eye Irrit. 2: Eye irritation, Category 2
STOT SE 3, H335: Specific target organ toxicity (single exposure), Category 3
STOT RE 2: Specific target organ toxicity (repeated exposure), Category 2

* **Key literature references and sources for data**

European Chemicals Agency, http://echa.europa.eu/.
Datasheets of the manufacturer

Training advice

none

* **Additional information**

National and local regulations concerning chemicals shall be observed.
This safety data sheet complies with the requirements of Commission Regulation (EU) 2020/878 amending Regulation (EC) No 1907/2006.
The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

Relevant H- and EUH-phrases (Number and full text)

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H350	May cause cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

* **Indication of changes**
* Data changed compared with the previous version