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Safety data sheet

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Chemetall (now part of BASF Group) Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 15.11.2021

Version: 3.0

Date previous version: 10.08.2020

Previous version: 2.0

Product: **ARDROX 1074**

(ID no. 30706239/SDS_GEN_GB/EN)

Date of print 15.11.2021

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

1.1. Product identifier

ARDROX 1074

UFI: V500-C1U8-900E-6K07

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

Recommended use: Detergents, Pickling agent for metal surfaces

Not recommended use: Uses other than recommended

1.3. Details of the supplier of the safety data sheet

Company:
Chemetall Ltd.
Napier House, Auckland Park
Bletchley, MK1 1BU
Great Britain
+44 1908 649333
sds.global-chemetall@basf.com

1.4. Emergency telephone number

International emergency number:
Telephone: +49 180 2273-112

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

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For the classification of the mixture the following methods have been applied: extrapolation on the concentration levels of the hazardous substances, on basis of test results and after evaluation of experts. The methodologies used are mentioned at the respective test results.

According to Regulation (EC) No 1272/2008 [CLP]

Skin Corr./Irrit. 1

H314 Causes severe skin burns and eye damage.

Eye Dam./Irrit. 1

H318 Causes serious eye damage.

Flam. Liq. 3

H226 Flammable liquid and vapour.

For the classifications not written out in full in this section the full text can be found in section 16.

2.2. Label elements

Globally Harmonized System, EU (GHS)

Pictogram:



Signal Word:

Danger

Hazard Statement:

H226

Flammable liquid and vapour.

H314

Causes severe skin burns and eye damage.

Precautionary Statements (Prevention):

P280

Wear protective gloves, protective clothing and eye protection or face protection.

P264

Wash contaminated body parts thoroughly after handling.

P242

Use only non-sparking tools.

P241

Use explosion-proof electrical, ventilating and lighting equipment.

P233

Keep container tightly closed.

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P240

Ground and bond container and receiving equipment.

P243

Take action to prevent static discharges.

P260

Do not breathe dust or mist.

Precautionary Statements (Response):

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P310	Immediately call a POISON CENTER or physician.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P303 + P361 + P353	IF ON SKIN (or hair): Remove or Take off immediately all contaminated clothing. Rinse skin with water or shower.
P370 + P378	In case of fire: Use water spray for extinction.
P363	Wash contaminated clothing before reuse.
P301 + P330 + P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Precautionary Statements (Storage):

P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.

Precautionary Statements (Disposal):

P501	Dispose of contents and container to hazardous or special waste collection point.
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2.3. Other hazards

According to Regulation (EC) No 1272/2008 [CLP]

Classified as 'corrosive' due to pH value. (Regulation (EC) No. 1272/2008)

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

SECTION 3: Composition/Information on Ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Chemical nature

inorganic compounds, Water, organic solvent

Hazardous ingredients (GHS)

according to Regulation (EC) No. 1272/2008

| Citric acid

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	Content (W/W): $\geq 1\%$ - $< 2\%$ CAS Number: 77-92-9 EC-Number: 201-069-1 REACH registration number: 01-2119457026-42	Eye Dam./Irrit. 2 H319
butanone	Content (W/W): $\geq 2\%$ - $< 2.5\%$ CAS Number: 78-93-3 EC-Number: 201-159-0 REACH registration number: 01-2119457290-43, 01-2119943742-35 INDEX-Number: 606-002-00-3	Flam. Liq. 2 Eye Dam./Irrit. 2 STOT SE 3 (drowsiness and dizziness) H225, H319, H336 EUH066
2,2' -oxybisethanol	Content (W/W): $\geq 2\%$ - $< 2.5\%$ CAS Number: 111-46-6 EC-Number: 203-872-2 REACH registration number: 01-2119457857-21 INDEX-Number: 603-140-00-6	Acute Tox. 4 (oral) H302
2-butoxyethanol	Content (W/W): $\geq 1\%$ - $< 2\%$ CAS Number: 111-76-2 EC-Number: 203-905-0 REACH registration number: 01-2119475108-36 INDEX-Number: 603-014-00-0	Acute Tox. 4 (Inhalation - vapour) Acute Tox. 4 (oral) Skin Corr./Irrit. 2 Eye Dam./Irrit. 2 H319, H315, H302 + H332
ammonium bifluoride	Content (W/W): $\geq 0.5\%$ - $< 1\%$ CAS Number: 1341-49-7 EC-Number: 215-676-4 REACH registration number: 01-2119489180-38	Acute Tox. 3 (oral) Skin Corr./Irrit. 1B Eye Dam./Irrit. 1 H301, H314 <u>Specific concentration limit:</u> Skin Corr./Irrit. 1B: $\geq 1\%$ Eye Dam./Irrit. 2: $0.1 - < 1\%$ Skin Corr./Irrit. 2: $0.1 - < 1\%$
Orthophosphoric acid		

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Content (W/W): $\geq 3\%$ - $< 5\%$
CAS Number: 7664-38-2
EC-Number: 231-633-2
REACH registration number: 01-2119485924-24

Met. Corr. 1
Acute Tox. 4 (oral)
Eye Dam./Irrit. 1
Skin Corr./Irrit. 1B
H314, H302, H290

Specific concentration limit:

Skin Corr./Irrit. 1B: $\geq 25.000000\%$
Skin Corr./Irrit. 2: $\geq 10.000000\%$
Eye Dam./Irrit. 1: $\geq 25.000000\%$
Eye Dam./Irrit. 2: $\geq 10.000000\%$

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

SECTION 4: First-Aid Measures

4.1. Description of first aid measures

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Remove affected person from danger area. Keep warm, calm and covered up. Immediately remove contaminated clothing. Never give anything by mouth to an unconscious person. In case of intoxication, call a poison control center or physician for treatment advice, taking the packaging or the label of the product. Symptoms of poisoning may occur even after several hours, continue medical observation for at least 48 hours after the accident.

If inhaled:

Immediate medical attention required. Remove the affected individual into fresh air and keep the person calm. If breathing is irregular or stopped, administer artificial respiration.

On skin contact:

Flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing immediately and clean before re-use or dispose it if necessary. Immediate medical attention required.

On contact with eyes:

Remove contact lenses, if present. Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist. Immediate medical attention required.

On ingestion:

Summon medical aid without delay. Do not induce vomiting due to aspiration hazard. Rinse mouth immediately with water. Keep at rest.

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

Symptoms: skin corrosion, Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

Hazards: May cause severe burns of the mouth and throat if orally ingested, as well as a danger of perforation of the oesophagus and the stomach.

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

Treatment: Symptomatic treatment (decontamination, vital functions).

Antidote: No known specific antidote.

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing media

Suitable extinguishing media:

carbon dioxide, alcohol-resistant foam, dry powder, water spray

Unsuitable extinguishing media for safety reasons:

water jet

5.2. Special hazards arising from the substance or mixture

Endangering substances: phosphorus oxides, carbon oxides, fluorinated compounds

Advice: Hazardous decomposition products formed under fire conditions.

5.3. Advice for fire-fighters

Special protective equipment:

Appropriate breathing apparatus may be required.

Further information:

Cool closed containers in the vicinity of the source of fire. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. Product itself is non-combustible; fire extinguishing method of surrounding areas must be considered. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid breathing vapours. For non-emergency personnel: Use personal protective clothing. Ensure adequate ventilation. Keep away from sources of ignition. For emergency responders: Advice on product handling can be found in sections 7 and 8 of this safety data sheet. Information regarding personal protective measures, see section 8.

6.2. Environmental precautions

Do not allow to enter drains or waterways. Do not discharge into the subsoil/soil. If the product enters drains or sewers, the local water company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the Environment Agency.

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container for disposal according with the waste regulations (see section 13). Clean preferably with a detergent; avoid the use of solvents. Ensure adequate ventilation.

6.4. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

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SECTION 7: Handling and Storage

7.1. Precautions for safe handling

Provide good ventilation of working area (local exhaust ventilation if necessary). Do not return residues to the storage containers. Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws. Avoid inhalation of vapour and spray mist. The workplace should be equipped with an emergency shower and eye-rinsing facility. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:

Avoid all sources of ignition: heat, sparks, open flame. Product may charge electrostatically: always use earthing leads when transferring from one container to another and earth containers. It is recommended that operators should wear antistatic clothing and footwear. Solvent vapours are heavier than air and spread along floors. Vapour forms explosive mixtures with air. The relevant fire protection measures should be noted. Use explosion-proof equipment.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from oxidising agents, from strongly alkaline and strongly acid materials.

Suitable materials for containers: Polypropylene (PP), Polyethyleneterephthalate (PET), Low density polyethylene (LDPE), High density polyethylene (HDPE)

Suitable materials for containers: rubberized

Further information on storage conditions: Keep container dry. Keep in a cool, well-ventilated place. Avoid direct sunlight. Close containers carefully once opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel. Always keep in containers of same material as the original one. Observe label precautions. Store protected against freezing.

Storage stability:

Storage temperature: 5 - 40 °C

7.3. Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

Components with occupational exposure limits

78-93-3: butanone

TWA value 600 mg/m³ ; 200 ppm (WEL/EH 40 (UK))

Skin Designation (WEL/EH 40 (UK))

The substance can be absorbed through the skin.

STEL value 900 mg/m³ ; 300 ppm (OEL (EU))

indicative

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	TWA value 600 mg/m ³ ; 200 ppm (OEL (EU)) indicative STEL value 899 mg/m ³ ; 300 ppm (WEL/EH 40 (UK)) Ceiling limit value/factor: 15 min
111-46-6: 2,2' -oxybisethanol	TWA value 101 mg/m ³ ; 23 ppm (WEL/EH 40 (UK))
111-76-2: 2-butoxyethanol	Skin Designation (WEL/EH 40 (UK)) The substance can be absorbed through the skin. TWA value 123 mg/m ³ ; 25 ppm (WEL/EH 40 (UK)) Skin Designation (OEL (EU)) The substance can be absorbed through the skin. STEL value 246 mg/m ³ ; 50 ppm (OEL (EU)) indicative TWA value 98 mg/m ³ ; 20 ppm (OEL (EU)) indicative STEL value 246 mg/m ³ ; 50 ppm (WEL/EH 40 (UK)) Ceiling limit value/factor: 15 min
1341-49-7: ammonium bifluoride	TWA value 2.5 mg/m ³ (WEL/EH 40 (UK)) Measured as: fluorine (F) TWA value 2.5 mg/m ³ (OEL (EU)) indicative
7664-38-2: Orthophosphoric acid	TWA value 1 mg/m ³ (WEL/EH 40 (UK)) STEL value 2 mg/m ³ (WEL/EH 40 (UK)) TWA value 1 mg/m ³ (OEL (EU)) indicative STEL value 2 mg/m ³ (OEL (EU)) indicative STEL value 2 mg/m ³ (WEL/EH 40 (UK)) Ceiling limit value/factor: 15 min

Components with biological limit values

78-93-3: butanone UKEH40BMGV	Determinant: Butan-2-one Biological Specimen: Urine Sampling time: End of shift Concentration: 70 µmol/L
111-76-2: 2-butoxyethanol UKEH40BMGV	Determinant: butoxyacetic acid Biological Specimen: Creatinine in urine Sampling time: End of shift Concentration: 240 mmol/mol

Components with PNEC

77-92-9: Citric acid	freshwater: 0.44 mg/l
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marine water: 0.044 mg/l
intermittent release:
No PNEC value available.
STP: 1000 mg/l
sediment (freshwater): 34.6 mg/kg
sediment (marine water): 3.46 mg/kg
soil: 33.1 mg/kg
oral (secondary poisoning):
No PNEC value available.

78-93-3: butanone

freshwater: 3.2 mg/l
marine water: 0.32 mg/l
intermittent release: 32 mg/l
sediment (freshwater): 13 mg/kg
sediment (marine water): 0.13 mg/kg
soil: 0.713 mg/kg
STP: 115 mg/l

111-46-6: 2,2' -oxybisethanol

freshwater: 10 mg/l
marine water: 1 mg/l
intermittent release: 10 mg/l
sediment (freshwater): 20.9 mg/kg
sediment (marine water): 2.09 mg/kg
soil: 1.53 mg/kg
STP: 199.5 mg/l

111-76-2: 2-butoxyethanol

freshwater: 8.8 mg/l
marine water: 0.88 mg/l
intermittent release: 9.1 mg/l
sediment (freshwater): 34.6 mg/kg
sediment (marine water): 3.46 mg/kg
soil: 2.33 mg/kg
STP: 463 mg/l
oral (secondary poisoning): 20 mg/kg

1341-49-7: ammonium bifluoride

soil: 22 mg/kg
STP: 76 mg/l
freshwater: 1.3 mg/l

7664-38-2: Orthophosphoric acid

freshwater:
A PNEC has not been derived as the ecotoxicological effects are solely caused by the pH-effect which is very specific for a certain ecosystem depending on the buffer capacity, the pH and the fluctuation of the pH.
marine water:
A PNEC has not been derived as the ecotoxicological effects are solely caused by the pH-effect which is very specific for a certain ecosystem depending on the buffer capacity, the pH and the fluctuation of the pH.

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intermittent release:

A PNEC has not been derived as the ecotoxicological effects are solely caused by the pH-effect which is very specific for a certain ecosystem depending on the buffer capacity, the pH and the fluctuation of the pH.

sediment (freshwater):

A PNEC has not been derived as the ecotoxicological effects are solely caused by the pH-effect which is very specific for a certain ecosystem depending on the buffer capacity, the pH and the fluctuation of the pH.

sediment (marine water):

A PNEC has not been derived as the ecotoxicological effects are solely caused by the pH-effect which is very specific for a certain ecosystem depending on the buffer capacity, the pH and the fluctuation of the pH.

STP:

A PNEC has not been derived as the ecotoxicological effects are solely caused by the pH-effect which is very specific for a certain ecosystem depending on the buffer capacity, the pH and the fluctuation of the pH.

Components with DNEL

78-93-3: butanone

No DNELs have been derived.

111-46-6: 2,2' -oxybisethanol

consumer: Long-term exposure- systemic effects, Inhalation: 12 mg/m³

consumer: Long-term exposure- systemic effects, dermal: 21 mg/kg

worker: Long-term exposure- systemic effects, dermal: 43 mg/kg

worker: Long-term exposure- systemic effects, Inhalation: 44 mg/m³

111-76-2: 2-butoxyethanol

worker: Long-term exposure- systemic effects, Inhalation: 98 mg/m³, 20 ppm

worker: Short-term exposure - systemic effects, Inhalation: 1091 mg/m³

worker: Short-term exposure - local effects, Inhalation: 246 mg/m³

consumer: Long-term exposure- systemic effects, oral: 6.3 mg/kg

consumer: Short-term exposure - systemic effects, oral: 26.7 mg/kg

consumer: Long-term exposure- systemic effects, Inhalation: 59 mg/m³

consumer: Short-term exposure - local effects, Inhalation: 426 mg/m³

consumer: Short-term exposure - local effects, Inhalation: 147 mg/m³

1341-49-7: ammonium bifluoride

consumer: Long-term exposure- systemic effects, oral: 0.015 mg/kg

Repeated dose toxicity

consumer: Short-term exposure - systemic effects, oral: 0.015 mg/kg

worker: Short-term exposure - local effects, by inhalation: 3.8 mg/m³

May cause respiratory irritation.

consumer: Long-term exposure- systemic effects, by inhalation: 0.045 mg/m³

Repeated dose toxicity

worker: Long-term exposure- systemic effects, by inhalation: 2.3 mg/m³

Repeated dose toxicity

7664-38-2: Orthophosphoric acid

worker: Long-term exposure - local effects, Inhalation: 2.92 mg/m³

8.2. Exposure controls

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Appropriate engineering controls

Ensure adequate ventilation. This can be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations at the workplace below the occupational exposure limits, appropriate certified respirators must be worn.

Personal protective equipment

Respiratory protection:

Wear respiratory protection if ventilation is inadequate. (Gas filter EN 14387 A)

Hand protection:

Chemical resistant protective gloves (EN ISO 374-1)

chloroprene rubber (CR) - 0.5 mm coating thickness

nitrile rubber (NBR) - 0.4 mm coating thickness

Performance level 6, corresponding to a breakthrough time of >480 min according to EN ISO 374-1

The protection glove should be tested for its specific suitability (e.g. mechanical strength, product compatibility, anti-static properties).

The gloves should be replaced immediately in case of damage or signs of wear. It is recommended to use preventative skin protection (skin cream).

Eye protection:

Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

Body protection:

Chemical resistant protective clothing according to DIN EN 13034 (Type 6)

General safety and hygiene measures

Do not breathe vapour/spray. Eye wash fountains and safety showers must be easily accessible.

Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Remove contaminated clothing immediately and dispose of safely. Hands and/or face should be washed before breaks and at the end of the shift. Keep separated from food stuffs and feed stocks.

Environmental exposure controls

For information regarding environmental exposure controls, see Section 6.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Form:	liquid	
Colour:	yellow	
Odour:	ammonia-like	
pH value:	1.0 - 2.0 (20 °C) (undiluted)	
Melting point:	0 °C	
onset of boiling:	100 °C	
Flash point:	30 °C	(ISO 13736)
Flammability:	Flammable liquid and vapour.	

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Lower explosion limit:	not determined	
Upper explosion limit:	No data available.	
Ignition temperature:	not determined	
Vapour pressure:	(20 °C) not determined	
	(50 °C) not determined	
Density:	1.035 g/cm ³ (20 °C)	(DIN 51757)
Solubility in water:	soluble	
Viscosity, dynamic:	500 - 1,000 mPa*s (20 °C)	
Viscosity, kinematic:	446.8 mm ² /s (20 °C)	
	(40 °C) not determined	
Explosion hazard:	not explosive	
Fire promoting properties:	not fire-propagating	

9.2. Other information

Self heating ability:	It is not a substance capable of spontaneous heating.	
Miscibility with water:	miscible	
Flow time:	66 s	(DIN EN ISO 2431; 6 mm)

SECTION 10: Stability and Reactivity

10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

10.2. Chemical stability

The product is stable if stored and handled as prescribed/indicated.

10.3. Possibility of hazardous reactions

No hazardous reactions when stored and handled according to instructions.

10.4. Conditions to avoid

Avoid direct sunlight. Avoid freezing.

10.5. Incompatible materials

Substances to avoid:

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Keep away from highly acidic or alkaline substances as well as oxidants in order to prevent exothermal reactions.

10.6. Hazardous decomposition products

Possible decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

SECTION 11: Toxicological Information

11.1. Information on toxicological effects

Acute toxicity

Assessment of acute toxicity:

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

Information on: 2,2' -oxybisethanol

Experimental/calculated data:

LD50 rabbit (dermal): 13,300 mg/kg (other)

Irritation

Assessment of irritating effects:

May cause severe burns of the mouth and throat if orally ingested, as well as a danger of perforation of the oesophagus and the stomach.

The liquid splashed in the eyes may cause irritation and reversible damage. Corrosive! Damages skin and eyes. May cause severe damage to the eyes.

Respiratory/Skin sensitization

Assessment of sensitization:

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

Germ cell mutagenicity

Assessment of mutagenicity:

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

Carcinogenicity

Assessment of carcinogenicity:

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

Reproductive toxicity

Assessment of reproduction toxicity:

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

Developmental toxicity

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Assessment of teratogenicity:

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

Specific target organ toxicity (single exposure)

Assessment of STOT single:

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

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

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

Aspiration hazard

No aspiration hazard expected.

SECTION 12: Ecological Information

12.1. Toxicity

Assessment of aquatic toxicity:

There are no test results available for this product. Do not allow to enter drains or waterways. The mixture has been assessed following regulation (EC) No 1272/2008 and is not classified as dangerous for the environment.

12.2. Persistence and degradability

Assessment biodegradation and elimination (H₂O):

No data available concerning biodegradation and elimination.

12.3. Bioaccumulative potential

Bioaccumulation potential:

No data available.

12.4. Mobility in soil

Assessment transport between environmental compartments:

Adsorption in soil: No data available.

12.5. Results of PBT and vPvB assessment

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

12.6. Other adverse effects

Chemetall (now part of BASF Group) Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

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The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Observe national and local legal requirements.
No disposal via sewage or waste water systems.

Dispose of the substance/product as special waste in accordance with Directive 2008/98/EC.

Waste key:

Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

Contaminated packaging:

Containers which are not properly emptied must be disposed pursuant to Directive 2008/98/EC

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

SECTION 14: Transport Information

Land transport

ADR

UN number	UN1993
UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. (contains METHYLETHYLKETONE)
Transport hazard class(es):	3
Packing group:	III
Environmental hazards:	no
Special precautions for user:	Tunnel code: D/E

RID

UN number	UN1993
UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. (contains METHYLETHYLKETONE)
Transport hazard class(es):	3
Packing group:	III
Environmental hazards:	no
Special precautions for user:	None known

Inland waterway transport

ADN

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UN number	UN1993
UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. (contains METHYLETHYLKETONE)
Transport hazard class(es):	3
Packing group:	III
Environmental hazards:	no
Special precautions for user:	None known

Transport in inland waterway vessel

Not evaluated

Sea transport

IMDG

UN number:	UN 1993
UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. (contains METHYLETHYLKETONE)
Transport hazard class(es):	3
Packing group:	III
Environmental hazards:	no
	Marine pollutant: NO
Special precautions for user:	None known

Air transport

IATA/ICAO

UN number:	UN 1993
UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. (contains METHYLETHYLKETONE)
Transport hazard class(es):	3
Packing group:	III
Environmental hazards:	No Mark as dangerous for the environment is needed
Special precautions for user:	None known

14.1. UN number

See corresponding entries for "UN number" for the respective regulations in the tables above.

14.2. UN proper shipping name

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

14.3. Transport hazard class(es)

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

14.4. Packing group

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See corresponding entries for "Packing group" for the respective regulations in the tables above.

14.5. Environmental hazards

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

14.6. Special precautions for user

See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Regulation:	Not evaluated
Shipment approved:	Not evaluated
Pollution name:	Not evaluated
Pollution category:	Not evaluated
Ship Type:	Not evaluated

SECTION 15: Regulatory Information

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

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

VOC content: 49.0 g/l

Prohibitions, Restrictions and Authorizations

Annex XVII of Regulation (EC) No 1907/2006: Number on List: 3

Directive 2012/18/EU - Control of Major Accident Hazards involving dangerous substances (EU):
Listed in above regulation: Flammable liquids, Categories 2 or 3 not covered by P5a and P5b

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

Detergents Regulation EC 907/2006:
phosphates less than 5 %

15.2. Chemical Safety Assessment

Chemical Safety Assessment not required

SECTION 16: Other Information

Literature and Data Sources: REACH-Regulation (EC) No. 1907/2006. CLP-Regulation (EC) No. 1272/2008.

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Full text of the classifications, including the hazard classes and the hazard statements, if mentioned in section 2 or 3:

Skin Corr./Irrit.	Skin corrosion/irritation
Eye Dam./Irrit.	Serious eye damage/eye irritation
Flam. Liq.	Flammable liquids
STOT SE	Specific target organ toxicity — single exposure
Acute Tox.	Acute toxicity
Met. Corr.	Corrosive to metals
H226	Flammable liquid and vapour.
H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation.
H225	Highly flammable liquid and vapour.
H336	May cause drowsiness or dizziness.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H302 + H332	Harmful if swallowed or if inhaled
H301	Toxic if swallowed.
H290	May be corrosive to metals.
EUH066	Repeated exposure may cause skin dryness or cracking.

Abbreviations

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road.
 ADN = The European Agreement concerning the International Carriage of Dangerous Goods by Inland waterways. ATE = Acute Toxicity Estimates. CAO = Cargo Aircraft Only. CAS = Chemical Abstract Service. CLP = Classification, Labelling and Packaging of substances and mixtures. DIN = German national organization for standardization. DNEL = Derived No Effect Level. EC50 = Effective concentration median for 50% of the population. EC = European Community. EN = European Standards. IARC = International Agency for Research on Cancer. IATA = International Air Transport Association. IBC-Code = Intermediate Bulk Container code. IMDG = International Maritime Dangerous Goods Code. ISO = International Organization for Standardization. STEL = Short-Term Exposure Limit. LC50 = Lethal concentration median for 50% of the population. LD50 = Lethal dose median for 50% of the population. TLV = Threshold Limit Value. MARPOL = The International Convention for the Prevention of Pollution from Ships. NEN = Dutch Norm. NOEC = No Observed Effect Concentration. OEL = Occupational Exposure Limit. OECD = Organization for Economic Cooperation and Development. PBT = Persistent, Bioaccumulative and Toxic. PNEC = Predicted No Effect Level. PPM = Parts per million. RID = The European Agreement concerning the International Carriage of Dangerous Goods by Rail. TWA = Time Weight Average. UN-number = UN number at transport. vPvB = very Persistent and very Bioaccumulative.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

Vertical lines in the left hand margin indicate an amendment from the previous version.