

# SAFETY DATA SHEET

according to Regulation (EU) No. 453/2010

## E:500

# 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

**Product code** HA 24-260-00

**Synonyms** None.

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

Use of the Industrial uses

Substance/Preparation A component of a polyurethane system.

1.3. Details of the supplier of the safety data sheet

Company/Undertaking PUR-Systems GmbH

Identification Werner-von-Siemens-Str. 22

D-49124 Georgsmarienhütte

Germany

+49 5401 8355 - 0 Tel +49 5401 8355 83 Fax e-mail info@pursystems.de

1.4. Emergency telephone +49 174 975 1711 number

+49 172 999 3193

Issuing date 25.06.2013

Version **REACH GHS/CLP** 



## 2. Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to **Regulation (EC) No. 1272/2008** 

(GHS/CLP)

Acute toxicity, oral, Cat. 4, H302 Skin corrosion/irritation, Cat. 1B, H314

Hazardous to the aquatic environment, chronic, Cat. 3, H412

Classification according to EU Directives 67/548/EEC or

1999/45/EC

Xi; R36/38 R53

**Additional information** 

For the full text of the phrases mentioned in this Section, see

Section 16.

2.2. Label elements





**Precautionary statements** 

Signal Word **Hazard Statements**  Danger

H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage. H412: Harmful to aquatic life with long lasting effects.

P260: Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P264a: Wash skin thoroughly after handling. P273: Avoid release to the environment.

P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.

P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/

physician if you feel unwell.

P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce

vomiting.

P303+P361+P353: IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/

shower.

P304+P340: IF INHALED: Remove victim to fresh air and keep at

rest in a position comfortable for breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTER or doctor/ physician.

P363: Wash contaminated clothing before reuse.

P405: Store locked up.

P501: Dispose of contents/ container to an approved waste

disposal plant.

Additional advice None.

**GHS** product identifier ISONONYLPHENOL-ETHOXYLATE, CAS-No. 37205-87-1

Tris(2-chlor-1-methylethyl)phosphat, CAS-No. 13674-84-5, EC-No.

237-158-7. REACH No. 01-2119486772-26-0000 Bis( Dimethylaminoethyl) Ether, CAS-No. 3033-62-3

2-[[2-(Dimethylamino)ethyl]methylamino]ethanol, CAS-No. 2212-32-

Ethanol, 2-[2-(dimethylamino)ethoxy]-, CAS-No. 1704-62-7



### Labelling according to Directives 67/548/EEC or 1999/45/EC

×

Xi - Irritant.

**R-phrase(s)** R36/38: Irritating to eyes and skin.

R53: May cause long-term adverse effects in the aquatic

environment.

**S-phrase(s)** S26: In case of contact with eyes, rinse immediately with plenty

of water and seek medical advice.

S61: Avoid release to the environment. Refer to special

instructions / safety data sheets.

S36/37/39: Wear suitable protective clothing, gloves and eye /

face protection.

Hazardous component(s) which must be listed on the label

Ethanol, 2-[2-(dimethylamino)ethoxy]-, CAS-No. 1704-62-7

**2.3. Other hazards**No hazards to be especially mentioned.

# 3. Composition/information on ingredients

**Chemical characterization** Mixture.

Components		CLP Classification	DSD/DPD Classification	Product identifier
ISONONYLPHENOL- ETHOXYLATE	10% - 25%	Eye Dam. 1 H318, Acute Tox. 4 H302, Aquatic Chronic 2 H411	Xn,Xi,N; R-22-41-52/53	CAS-No.: 37205-87-1
Tris(2-chlor-1- methylethyl)phosphat	10% - 25%	Acute Tox. 4 H302	Xn; R-22	CAS-No.: 13674-84-5 EC-No.: 237-158-7 REACH No.: 01- 2119486772-26-0000
Bis( Dimethylaminoethyl)Eth er	1% - 5%	Acute Tox. 4 H302, Acute Tox. 3 H311, Acute Tox. 3 H331, Skin Corr. 1C H314, Eye Dam. 1 H318, Aquatic Chronic 3 H412	Xn,C; R-20/21/22-34- 52/53	CAS-No.: 3033-62-3 Index-No: 221-220-5
2-[[2- (Dimethylamino)ethyl]me thylamino]ethanol	1% - 5%	Acute Tox. 4 H302, Skin Irrit. 2 H315, Eye Dam. 1 H318, STOT SE 3 H335	Xn,Xi; R-22-41-37/38	CAS-No.: 2212-32-0 Index-No: 218-658-4
Ethanol, 2-[2- (dimethylamino)ethoxy]-	5% - 10%	Skin Corr. 1B H314, Eye Dam. 1 H318, Acute Tox. 4 H312	C,Xn; R-21-34	CAS-No.: 1704-62-7 Index-No: 216-940-1

For the full text of the phrases mentioned in this Section, see Section 16.

Hazardous impurities None known.



### 4. First aid measures

### 4.1. Description of first aid measures

**Inhalation** Move to fresh air in case of accidental inhalation of vapours.

**Skin contact** Wash off immediately with plenty of water.

**Eye contact** Rinse thoroughly with plenty of water, also under the eyelids. If eye

irritation persists, consult a specialist.

**Ingestion** Rinse the mouth thoroughly with water. Consult a physician if

necessary.

4.2. Most important symptoms and effects, both acute and

delayed

None known.

4.3. Indication of any immediate medical attention and special

treatment needed

None known.

## 5. Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media** Water. Carbon dioxide (CO2). Dry chemical.

Extinguishing media which must not be used for safety reasons

None known.

5.2. Special hazards arising from

the substance or mixture

In the event of fire the following can be released: COx, NOx, SiOx.

5.3. Advice for firefighters

Special protective equipment for

firefighters

Standard procedure for chemical fires. In case of fire and/or explosion do not breathe fumes. Wear self contained breathing

apparatus for fire fighting if necessary.

**Specific methods** No special measures required.

### 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency Use pers

personnel

Use personal protective equipment. Avoid contact with skin and

eyes.

Advice for emergency

responders

Use personal protective equipment. Avoid contact with skin and

eyes.

E:500 Print Date 25.06.2013 4 / 9



**6.2. Environmental precautions** Prevent product from entering surface water or sewage.

6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid

binder, universal binder, sawdust).

**6.4. Reference to other sections** See chapter 8 and 13.

# 7. Handling and storage

7.1. Precautions for safe

handling

Handle in accordance with good industrial hygiene and safety

practice.

7.2. Conditions for safe storage, including any incompatibilities

The product is hygroscopic. Keep container tightly closed. Store at room temperature in the original container. Keep away from food

and drink.

**7.3. Specific end use(s)**No information available.

## 8. Exposure controls/personal protection

8.1. Control parameters

Exposure limit(s) None.

8.2. Exposure controls

Occupational exposure controls General industrial hygiene practice.

Personal protection equipment

Respiratory protection No personal respiratory protective equipment normally required.

Hand protection The selected protective gloves have to satisfy the specifications of

EU Directive 89/689/EEC and the standard EN 374 derived from it.

Eye protection Avoid contact with eyes.

Skin and body protection Remove and wash contaminated clothing before re-use.

**Thermal hazards** No special measures required.

Environmental exposure controls Dispose of waste product or used containers according to local

regulations. Prevent product from entering surface water or

sewage.



## 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Form Liquid.

Colour colorless to yellowish

Odour Characteristic.
Odour Threshold not determined not applicable

Melting point/range: >0 °C

Boiling point/range: not determined

Flash point: >120 °C

Evaporation Rate: not determined Flammability: not applicable Explosion limits: not determined Vapour pressure: < 30 mbar Vapor density: not determined

Relative density: 1,12

Water solubility: partly soluble Partition coefficient (n- not determined

octanol/water):

Autoignition temperature: not determined Decomposition temperature: not determined

Viscosity: 210

Combustion/explosion hazards: not determined

Oxidizing properties: None

9.2. Other information

**General Product Characteristics** No information available.

# 10. Stability and reactivity

**10.1. Reactivity** Reagiert mit Isocyanat.

**10.2. Chemical stability** No decomposition if used as directed.

10.3. Possibility of hazardous

reactions

No if used as directed.

**10.4. Conditions to avoid** No conditions to be specially mentioned.

**10.5. Incompatible materials** ferrous metals, alloys and galvanized surfaces

10.6. Hazardous decomposition

products

Carbon monoxide. Carbon dioxide (CO2). Silicones Halogenated

compounds.



# 11. Toxicological information

### 11.1. Information on toxicological effects

This product has no known adverse effect on human health. **Acute toxicity** 

2-Propanol, 1-chloro-, phosphate (3:1) (CAS 13674-84-5)

Dermal LD50 Rabbit = 1230 mg/kg (IUCLID) Dermal LD50 Rat > 5000 mg/kg (IUCLID) Inhalation LC50 Rat = 5 mg/L 4 h (IUCLID) Inhalation LC50 Rat > 17.8 mg/L 1 h (IUCLID)

Oral LD50 Rat = 500 mg/kg (IUCLID) Bis(2-dimethylaminoethyl) ether (CAS 3033-62-3)

Inhalation LC50 Rat = 117 ppm 6 h (NLM\_CIP)

Skin corrosion/irritation None known.

Serious eye damage/eye

irritation

None known.

Respiratory / Skin Sensitisation None known.

Carcinogenicity No data available.

Germ cell mutagenicity No data available.

Reproductive toxicity No data available.

Specific target organ toxicity

(single exposure)

No data available.

Specific target organ toxicity

(repeated exposure)

No data available.

**Aspiration hazard** No data available.

**Human experience** This product has no known adverse effect on human health.

# 12. Ecological information

12.1. Toxicity No data is available on the product itself.

2-Propanol, 1-chloro-, phosphate (3:1) (CAS 13674-84-5)

Ecotoxicity - Freshwater Fish -96 h LC50 Brachydanio rerio: 56.2 mg/L [static] 96 h LC50 Leuciscus idus: 180 mg/L [static] Acute Toxicity Data

96 h LC50 Pimephales promelas: 98 mg/L [static] 96 h LC50 Poecilia reticulata: 30 mg/L [static]

Ecotoxicity - Water Flea - Acute

**Toxicity Data** 

48 h EC50 Daphnia magna: 63 mg/L

Ecotoxicity - Freshwater Algae -72 h EC50 Desmodesmus subspicatus: 45 mg/L

**Acute Toxicity Data** 96 h EC50 Pseudokirchneriella subcapitata: 4 mg/L

12.2. Persistence and

degradability

E:500

No data is available on the product itself.

12.3. Bioaccumulative potential No data is available on the product itself.

Print Date 25.06.2013 7/9 **REACH GHS/CLP** 



**12.4. Mobility in soil**No data is available on the product itself.

12.5. Results of PBT and vPvB

assessment

No information available.

**12.6. Other adverse effects** No data is available on the product itself.

## 13. Disposal considerations

13.1. Waste treatment methods

Waste from residues / unused

products

Dispose of in accordance with local regulations.

**Contaminated packaging** Offer rinsed packaging material to local recycling facilities.

## 14. Transport information

ADR/RID Not required.

IMO Not required.

ICAO Not required.

**Further Information** Not classified as dangerous in the meaning of transport regulations.

# 15. Regulatory information

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

**Regulatory Information** The product contains organic halogens.

Poly(oxy-1,2-ethanediyl), .alpha.-(isononylphenyl)-.omega.-hydroxy- (CAS 37205-87-1)

EU - Export and Import Restrictions (689/2008) - Chemicals Subject to Export Notification Procedure

Severe restriction as an industrial chemical for professional use Banned as a pesticide in the group of plant protection products Banned as other pesticide including biocides

Export Notification Procedure

EU - Export and Import Restrictions

Banned as other pestic

Banned as a pesticide

(689/2008) - Chemicals Qualifying Severe restriction as an industrial chemical

for PIC Notification

2-Propanol, 1-chloro-, phosphate (3:1) (CAS 13674-84-5)

EU - REACH (1907/2006) - List of

Registered Substances

Present

15.2. Chemical safety

assessment

A Chemical Safety Assessment is not required for this substance

when it is used in the specified applications.

E:500 REACH GHS/CLP

Print Date 25.06.2013



## 16. Other information

**Revision Note** This data sheet contains changes from the previous version in

section(s):

Key or legend to abbreviations and acronyms

None.

Full text of phrases referred to under sections 2 and 3

H302: Harmful if swallowed.

H311: Toxic in contact with skin. H312: Harmful in contact with skin.

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H331: Toxic if inhaled.

H335: May cause respiratory irritation.

H411: Toxic to aquatic life with long lasting effects. H412: Harmful to aquatic life with long lasting effects.

R20/21/22: Harmful by inhalation, in contact with skin and if

swallowed.

R21: Harmful in contact with skin.

R22: Harmful if swallowed.

R34: Causes burns.

R36/38: Irritating to eyes and skin.

R37/38: Irritating to respiratory system and skin.

R41: Risk of serious damage to eyes.

R52/53: Harmful to aquatic organisms, may cause long-term

adverse effects in the aquatic environment.

R53: May cause long-term adverse effects in the aquatic

environment.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release. It is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This safety datasheet only contains information relating to safety and does not replace any product information or product specification.