

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Product name : clearpox one hardener
Revision date : 12.02.2021
Print date : 2021.03.03.

Version (Revision) : 3.0.0 (2.0.0)

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

1.1 Product identifier

clearpox one hardener
Unique Formula Identifier : UF2Q-929A-N00Q-YU3C

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

Relevant identified uses

Building and construction work Uses in coatings Curing agent for epoxy systems.
Industrial uses ; Formulation of preparations ; Processing aid
Professional uses
Restricted to professional users.

1.3 Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor)

ipox chemicals Kft.

Street : Helsinki út. 114

Postal code/city : 1238 BUDAPEST

Telephone : +3614217040

Telefax : +3614217041

Information contact : sds@ipox-chemicals.hu

1.4 Emergency telephone number

+3614217042 Only available during office hours: from 8am to 5pm (in German and English)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Acute Tox. 4 ; H302 - Acute toxicity (oral) : Category 4 ; Harmful if swallowed.

Acute Tox. 4 ; H312 - Acute toxicity (dermal) : Category 4 ; Harmful in contact with skin.

Eye Dam. 1 ; H318 - Serious eye damage/eye irritation : Category 1 ; Causes serious eye damage.

Aquatic Chronic 2 ; H411 - Hazardous to the aquatic environment : Chronic 2 ; Toxic to aquatic life with long lasting effects.

2.2 Label elements

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

Hazard pictograms



Corrosion (GHS05) · Environment (GHS09) · Exclamation mark (GHS07)

Signal word

Danger

Hazard components for labelling

PROPYLIDYNETRIMETHANOL, PROPOXYLATED, REACTION PRODUCTS WITH AMMONIA ; CAS No. : 39423-51-3

Hazard statements

H318 Causes serious eye damage.
H302+H312 Harmful if swallowed or in contact with skin.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

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P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P310	Immediately call a POISON CENTER/doctor.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P391	Collect spillage.

2.3 Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

PROPYLIDYNETRIMETHANOL, PROPOXYLATED, REACTION PRODUCTS WITH AMMONIA ; REACH No. : 01-2119556886-20-xxxx ; EC No. : 500-105-6; CAS No. : 39423-51-3

Weight fraction : $\geq 60 - < 100$ %

Classification 1272/2008 [CLP] : Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Acute Tox. 4 ; H312 Aquatic Chronic 2 ; H411

Additional information

Full text of H- and EUH-phrases: see section 16.

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. Wash thoroughly the body (shower or bath). Remove affected person from the danger area and lay down. Transport affected person in lying position, in case of shortness of breath in half-sitting position. Put victim at rest, cover with a blanket and keep warm. Do not leave affected person unattended.

Following inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.

In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. In case of skin reactions, consult a physician. In case of skin irritation, consult a physician.

After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing. Protect uninjured eye.

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting.

Self-protection of the first aider

First aider: Pay attention to self-protection!

4.2 Most important symptoms and effects, both acute and delayed

Causes serious eye damage. Irritating to skin. May cause an allergic skin reaction.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. First Aid, decontamination, treatment of symptoms.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂) Extinguishing powder alcohol resistant foam Water spray jet Water

Unsuitable extinguishing media

Strong water jet

5.2 Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO₂) Ammonia (NH₃)

5.3 Advice for firefighters

Special protective equipment for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Move undamaged containers from immediate hazard area if it can be done safely. Use water spray jet to protect personnel and to cool endangered containers. Do not allow run-off from fire-fighting to enter drains or water courses. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Use personal protection equipment. See protective measures under point 7 and 8.

For emergency responders

Use personal protection equipment. Provide adequate ventilation. Remove persons to safety. See protective measures under point 7 and 8.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

6.3 Methods and material for containment and cleaning up

For containment

Cover drains. Stop leak if safe to do so. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Take up mechanically, placing in appropriate containers for disposal.

For cleaning up

Collect in closed and suitable containers for disposal. Clean contaminated articles and floor according to the environmental legislation.

6.4 Reference to other sections

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

It is recommended to design all work processes always so that the following is excluded: Inhalation of vapours or spray/mists Skin contact Eye contact

Wear personal protection equipment (refer to section 8). If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

Measures to prevent fire

Keep away from sources of ignition - No smoking. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

Environmental precautions

Shafts and sewers must be protected from entry of the product. Provide for retaining containers, eg. floor pan without outflow.

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Advices on general occupational hygiene

Working places should be designed to allow cleaning at any time. Floors, walls and other surfaces in the hazard area must be cleaned regularly. After use replace the closing cap immediately. Wash hands and face before breaks and after work and take a shower if necessary. Wash hands before eating, drinking or smoking. Remove contaminated, saturated clothing immediately. Wash contaminated clothing prior to re-use.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Only use containers specifically approved for the substance/product. Protect containers against damage. Keep container tightly closed and in a well-ventilated place.

Packaging materials

Unsuitable container/equipment material: Copper Alloy, containing copper

Hints on joint storage

Storage class (TRGS 510) : 10

Keep away from

Keep away from food, drink and animal feedingstuffs.

7.3 Specific end use(s)

Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

To date, no national critical limit values exist.

DNEL-/PNEC-values

DNEL/DNEL

PROPYLIDYNETRIMETHANOL, PROPOXYLATED, REACTION PRODUCTS WITH AMMONIA ; CAS No. : 39423-51-3

Limit value type : DNEL worker (systemic)

Exposure route : Dermal

Exposure frequency : Long-term

Limit value : 1,6 mg/kg

Limit value type : DNEL worker (systemic)

Exposure route : Inhalation

Exposure frequency : Long-term

Limit value : 14,1 mg/m³

PNEC

PROPYLIDYNETRIMETHANOL, PROPOXYLATED, REACTION PRODUCTS WITH AMMONIA ; CAS No. : 39423-51-3

Limit value type : PNEC (Aquatic, freshwater)

Limit value : 0,0044 mg/l

Limit value type : PNEC (Aquatic, intermittent release)

Limit value : 0,044 mg/l

Limit value type : PNEC (Aquatic, marine water)

Limit value : 0,00044 mg/l

Limit value type : PNEC (Sediment, freshwater)

Limit value : 0,02 mg/kg

Limit value type : PNEC (Sediment, marine water)

Limit value : 0,002 mg/kg

Limit value type : PNEC (Soil)

Limit value : 0,002 mg/kg

Limit value type : PNEC (Sewage treatment plant)

Limit value : 10 mg/l

8.2 Exposure controls

Appropriate engineering controls

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Provide for sufficient ventilation. Technical measures and the application of suitable work processes have priority over personal protection equipment.

Personal protection equipment

Eye/face protection

Suitable eye protection

Eye glasses with side protection
DIN-/EN-Norms : DIN EN 166
Provide eye shower and label its location conspicuously

Skin protection

Hand protection

Suitable gloves type : Gloves with long cuffs

Suitable material : NBR (Nitrile rubber) PVC (polyvinyl chloride) CR (polychloroprene, chloroprene rubber) Butyl caoutchouc (butyl rubber) PVA (Polyvinyl alcohol) FKM (fluoro rubber)

Wearing time with occasional contact (splashes) : > 10 min

Wearing time with permanent contact : > 480 min

Remark : When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.

Breakthrough times and swelling properties of the material must be taken into consideration.

Tested protective gloves must be worn

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

DIN-/EN-Norms : EN ISO 374

Body protection

Suitable protective clothing

Remark :

DIN-/EN-Norms

Protective clothing. : DIN EN 14605

footwear : DIN EN ISO 20345

Breakthrough times and swelling properties of the material must be taken into consideration.

Only wear fitting, comfortable and clean protective clothing.

Respiratory protection

Usually no personal respiratory protection necessary. Respiratory protection necessary at: exceeding exposure limit values insufficient ventilation insufficient exhaust

Suitable respiratory protection apparatus

Combination filtering device (EN 14387) Filter type: A

Remark

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used. Use only respiratory protection equipment with CE-symbol including four digit test number.

General information

When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. Wash contaminated clothing immediately. Wash hands before breaks and after work. Emergency shower installed

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : Liquid

Colour : light yellow

Odour : Amines

Safety characteristics

Freezing point : (1013 hPa) < -20 °C

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Initial boiling point and boiling range :	(1013 hPa)	No data available	
Decomposition temperature :	(1013 hPa)	>	230 °C
Flash point :		>	200 °C
Auto-ignition temperature :			320 °C
Lower explosion limit :			No data available
Upper explosion limit :			No data available
Vapour pressure :	(50 °C)		No data available
Density :	(25 °C)		0,97 g/cm ³
Relative density :	(20 °C)		No data available
Water solubility :	(20 °C)	approx.	0,562 g/cm ³
pH :		approx.	11,5
log P O/W :			-1,13
Flow time :	(20 °C)		No data available
Viscosity :	(25 °C)		No data available
Odour threshold :			No data available
Relative vapour density :	(20 °C)		No data available
Evaporation rate :			No data available
VOC-value :			0 g/l
Flammable solids :			Not applicable.
Flammable gases :			Not applicable.
Oxidising liquids :			Not oxidising.
Explosive properties :			Not applicable.

9.2 Other information

partially miscible : Water

SECTION 10: Stability and reactivity

10.1 Reactivity

The product is stable under storage at normal ambient temperatures.

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

Violent reaction with: Oxidising agent, strong. Acid

10.4 Conditions to avoid

Keep away from heat.

10.5 Incompatible materials

Oxidising agent, strong. Strong acid

10.6 Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11: Toxicological information

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

Acute toxicity

Acute oral toxicity

Parameter :	LD50 (PROPYLIDYNETRIMETHANOL, PROPOXYLATED, REACTION PRODUCTS WITH AMMONIA ; CAS No. : 39423-51-3)
Exposure route :	Oral
Species :	Rat
Effective dose :	550 mg/kg

Acute dermal toxicity

Parameter :	LD50 (PROPYLIDYNETRIMETHANOL, PROPOXYLATED, REACTION PRODUCTS WITH AMMONIA ; CAS No. : 39423-51-3)
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Exposure route : Dermal
Species : Rat
Effective dose : > 1000 mg/kg

Corrosion

Product characteristics : Causes serious eye damage. Irritating to skin.

Skin corrosion/irritation

Parameter : Skin corrosion/irritation (PROPYLIDYNETRIMETHANOL, PROPOXYLATED, REACTION PRODUCTS WITH AMMONIA ; CAS No. : 39423-51-3)

Species : Rabbit
Result : slightly irritant
Method : OECD 404

Product characteristics : Irritating to skin.

Serious eye damage/eye irritation

Parameter : Serious eye damage/eye irritation (PROPYLIDYNETRIMETHANOL, PROPOXYLATED, REACTION PRODUCTS WITH AMMONIA ; CAS No. : 39423-51-3)

Species : Rabbit
Result : Strongly irritant Corrosive
Method : OECD 405

Product characteristics : Causes serious eye damage.

Respiratory or skin sensitisation

Skin sensitisation

Parameter : Skin sensitisation (PROPYLIDYNETRIMETHANOL, PROPOXYLATED, REACTION PRODUCTS WITH AMMONIA ; CAS No. : 39423-51-3)

Species : Guinea pig
Result : Not sensitising.

Product characteristics

Sensitisation to the respiratory tract

data lacking

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity

In vitro mutagenicity

Parameter : Gene-mutations microorganisms (PROPYLIDYNETRIMETHANOL, PROPOXYLATED, REACTION PRODUCTS WITH AMMONIA ; CAS No. : 39423-51-3)

Result : Negative.
Method : OECD 471 (Ames test)

Parameter : Gene-mutations mammalian cells (PROPYLIDYNETRIMETHANOL, PROPOXYLATED, REACTION PRODUCTS WITH AMMONIA ; CAS No. : 39423-51-3)

Exposure route : In vitro mutagenicity
Result : Negative.
Method : OECD 476

Parameter : In-vitro Unscheduled DNA Synthesis (UDS) (PROPYLIDYNETRIMETHANOL, PROPOXYLATED, REACTION PRODUCTS WITH AMMONIA ; CAS No. : 39423-51-3)

Result : Negative.
Method : OECD 482

Reproductive toxicity

Adverse effects on developmental toxicity

Parameter : NOAEL(C) (PROPYLIDYNETRIMETHANOL, PROPOXYLATED, REACTION PRODUCTS WITH AMMONIA ; CAS No. : 39423-51-3)

Exposure route : Dermal
Species : Rat
Effective dose : > 100 mg/kg
Method : OECD 421

Overall Assessment on CMR properties

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

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

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

11.2 Information on other hazards

No information available.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Acute (short-term) fish toxicity

Parameter : LC50 (PROPYLIDYNETRIMETHANOL, PROPOXYLATED, REACTION PRODUCTS WITH AMMONIA ; CAS No. : 39423-51-3)
Species : Fish
Effective dose : > 100 mg/l
Exposure time : 96 h
Method : OECD 203

Acute (short-term) toxicity to crustacea

Parameter : EC50 (PROPYLIDYNETRIMETHANOL, PROPOXYLATED, REACTION PRODUCTS WITH AMMONIA ; CAS No. : 39423-51-3)
Species : Daphnia
Effective dose : 13 mg/l
Exposure time : 48 h
Method : OECD 202

Acute (short-term) toxicity to aquatic algae and cyanobacteria

Parameter : ErC50 (PROPYLIDYNETRIMETHANOL, PROPOXYLATED, REACTION PRODUCTS WITH AMMONIA ; CAS No. : 39423-51-3)
Species : Algae
Effective dose : 4,4 mg/l
Exposure time : 72 h
Method : OECD 201

Chronic (long-term) algae toxicity

Parameter : NOEC (PROPYLIDYNETRIMETHANOL, PROPOXYLATED, REACTION PRODUCTS WITH AMMONIA ; CAS No. : 39423-51-3)
Species : Algae
Effective dose : 1 mg/l
Exposure time : 72 h
Method : OECD 201

Toxicity to microorganisms

Parameter : EC50 (PROPYLIDYNETRIMETHANOL, PROPOXYLATED, REACTION PRODUCTS WITH AMMONIA ; CAS No. : 39423-51-3)
Species : Toxicity to microorganisms
Effective dose : 1000 mg/l
Exposure time : 30 min
Method : OECD 209

12.2 Persistence and degradability

Abiotic degradation

Parameter : Half-life time (PROPYLIDYNETRIMETHANOL, PROPOXYLATED, REACTION PRODUCTS WITH AMMONIA ; CAS No. : 39423-51-3)
Degradation rate : >= 365 day(s)

Biodegradation

Parameter : Biodegradation (PROPYLIDYNETRIMETHANOL, PROPOXYLATED, REACTION

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Degradation rate : PRODUCTS WITH AMMONIA ; CAS No. : 39423-51-3)
< 5 %
Test duration : 28 day(s)
Evaluation : Not readily biodegradable (according to OECD criteria)
Method : OECD 301F

12.3 Bioaccumulative potential

Parameter : Partition coefficient: n-octanol/water (PROPYLIDYNETRIMETHANOL, PROPOXYLATED, REACTION PRODUCTS WITH AMMONIA ; CAS No. : 39423-51-3)
Value : < 0 logPow

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Endocrine disrupting properties

No information available.

12.7 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Dispose of waste according to applicable legislation. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.
Collect the waste separately. Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

14.1 UN number

UN 3082

14.2 UN proper shipping name

Land transport (ADR/RID)
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TRIMETHYLOLPROPANE POLYOXYPROPYLENE TRIAMINE)

Sea transport (IMDG)
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TRIMETHYLOLPROPANE POLYOXYPROPYLENE TRIAMINE)

Air transport (ICAO-TI / IATA-DGR)
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TRIMETHYLOLPROPANE POLYOXYPROPYLENE TRIAMINE)

14.3 Transport hazard class(es)

Land transport (ADR/RID)

Class(es) : 9
Classification code : M6
Hazard identification number (Kemler No.) : 90
Tunnel restriction code : -
Special provisions : LQ 5 I · E 1 · ADR : - (SP 375 <= 5 l/kg)
Hazard label(s) : 9 / N

Sea transport (IMDG)

Class(es) : 9
EmS-No. : F-A / S-F
Special provisions : LQ 5 I · E 1 · IMDG : - (SP 2.10.2.7 <= 5 l/kg)
Hazard label(s) : 9 / N

Air transport (ICAO-TI / IATA-DGR)

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Class(es) : 9
Special provisions : E 1 · IATA : - (SP A197 <= 5 l/kg)
Hazard label(s) : 9 / N

14.4 Packing group

III

14.5 Environmental hazards

Land transport (ADR/RID) : Yes
Sea transport (IMDG) : Yes (P)
Air transport (ICAO-TI / IATA-DGR) : Yes

14.6 Special precautions for user

None

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

not applicable

SECTION 15: Regulatory information

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

EU legislation

Authorisations and/or restrictions on use

Authorisations

not applicable

Restrictions on use

Use restriction according to REACH annex XVII, no. : 3

Other regulations (EU)

This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: : None

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]

E2 Hazardous to the aquatic environment in Category Chronic 2

Labelling for contents according to regulation (EC) No. 648/2004

not applicable

National regulations

Water hazard class (WGK)

Classification according to AwSV - Class : 2 (Obviously hazardous to water)

Additional information

Substance/product listed in the following inventories

- TSCA
- DSL/NDSL
- AICS
- KECL
- PICCS
- IECSC
- NZIoC

15.2 Chemical safety assessment

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For this substance a chemical safety assessment has been carried out.

SECTION 16: Other information

16.1 Indication of changes

01. Unique Formula Identifier · 03. Substances · 15. Restrictions on use · 15. Water hazard class (WGK) · 15. Sum substances WGK

16.2 Abbreviations and acronyms

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).
See overview table at www.euphrac.eu.

16.3 Key literature references and sources for data

None

16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

None

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

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H318	Causes serious eye damage.
H411	Toxic to aquatic life with long lasting effects.

16.6 Training advice

None

16.7 Additional information

None

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.