

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### IsoFoam B

Revision date: 08.02.2022

Product code: isoplus-002

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

### 1.1. Product identifier

IsoFoam B

Substance name: Isocyanic acid, polymethylenepolyphenylene ester (P-MDI)  
CAS No: 9016-87-9  
EC No: 618-498-9

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

#### Use of the substance/mixture

Chemical

Recommended use: polyurethane component, Use as an intermediate, Use as Monomer, Formulation & (re)packing of substances and mixtures, Use in Coatings, Use in Adhesives, Use in Sealants, Use in other Composite Materials, Use in/as Composite Material based on wood, mineral and natural fibres, Use in Foundries, Use in/as Rigid Foam

#### Uses advised against

The product is only to be used for the intended application.  
Uses advised against: Consumer spray applications, Consumer applications requiring temperatures above 40°C, Professional cleaning applications with aprotic polar solvents (meeting the IUPAC definition)

### 1.3. Details of the supplier of the safety data sheet

Company name: Isoplus Fernwärmetechnik GmbH  
Street: Schachtstraße 28/42  
Place: D-99706 Sondershausen  
Telephone: +49 (3632) 6516101  
e-mail: sondershausen@isoplus.group  
e-mail (Contact person): kundenservice.deutschland@isoplus.group  
1.4. Emergency telephone number: national emergency number: +353 1 8092566

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Regulation (EC) No. 1272/2008

Hazard categories:  
Carcinogenicity: Carc. 2  
Acute toxicity: Acute Tox. 4  
Skin corrosion/irritation: Skin Irrit. 2  
Serious eye damage/eye irritation: Eye Irrit. 2  
Respiratory or skin sensitisation: Resp. Sens. 1  
Respiratory or skin sensitisation: Skin Sens. 1  
Specific target organ toxicity - single exposure: STOT SE 3  
Specific target organ toxicity - repeated exposure: STOT RE 2  
Hazard Statements:  
Suspected of causing cancer.  
Harmful if inhaled.  
Causes skin irritation.  
Causes serious eye irritation.  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
May cause an allergic skin reaction.  
May cause respiratory irritation.  
May cause damage to organs through prolonged or repeated exposure.

### 2.2. Label elements

#### Regulation (EC) No. 1272/2008

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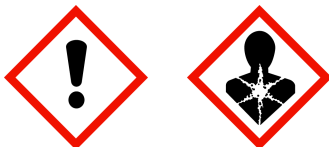
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**Signal word:** Danger

**Pictograms:**



#### Hazard statements

H332	Harmful if inhaled.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
H351	Suspected of causing cancer.
H335	May cause respiratory irritation.
H373	May cause damage to organs (Respiratory tract) through prolonged or repeated exposure if inhaled.

#### Precautionary statements

P280	Wear protective gloves/protective clothing and eye/face protection.
P284	In case of inadequate ventilation wear respiratory protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container to hazardous or special waste collection point.

#### Special labelling of certain mixtures

EUH204	Contains isocyanates. May produce an allergic reaction. As from 24 August 2023 adequate training is required before industrial or professional use.
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#### 2.3. Other hazards

Results of PBT and vPvB assessment - Section 12: Ecological Information (non-mandatory)  
Avoid any contact with the substance in case of known allergy to isocyanates, skin complaints, hypersensitivity reactions, chronic respiratory disease, asthmatic attacks or bronchial attacks

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

#### Hazardous components

CAS No	Chemical name	Quantity
	EC No	
	Index No	
	REACH No	
	GHS Classification	
9016-87-9	Isocyanic acid, polymethylenepolyphenylene ester (P-MDI)	100 %
	618-498-9	
	Carc. 2, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, STOT SE 3, STOT RE 2; H351 H332 H315 H319 H334 H317 H335 H373	

Full text of H and EUH statements: see section 16.

#### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
9016-87-9	618-498-9	Isocyanic acid, polymethylenepolyphenylene ester (P-MDI)	100 %
		inhalation: ATE = 11 mg/l (vapours); inhalation: LC50 = - mg/l (dusts or mists)	

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## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

First aider: Pay attention to self-protection!

Remove contaminated clothing immediately and clean before re-use or dispose it if necessary.

#### After inhalation

Keep patient calm, remove to fresh air, seek medical attention.

#### After contact with skin

After contact with skin, rinse off the product with water and soap. Consult a doctor if skin irritation persists.

#### After contact with eyes

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

#### After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Keep the person concerned calm and call a medic immediately.

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

The following symptoms may occur: tightness in the chest, Cough, Respiratory complaints, eye irritation

Allergic reactions

Symptoms may occur with a time delay.

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

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote, administer corticosteroid dose aerosol to prevent pulmonary odema.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Suitable extinguishing media:

alcohol resistant foam. Carbon dioxide (CO<sub>2</sub>). Water spray jet. Extinguishing powder.

#### Unsuitable extinguishing media

High power water jet.

### 5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon monoxide. Carbon dioxide. Hydrogen cyanide. Hydrocyanic acid (hydrocyanic acid). Nitrogen oxides (NO<sub>x</sub>). Isocyanates.

The substances/groups of substances mentioned can be released in case of fire.

### 5.3. Advice for firefighters

Special protective equipment: Wear self-contained breathing apparatus and chemical-protective clothing.

#### Additional information

Keep containers cool by spraying with water if exposed to fire. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

## SECTION 6: Accidental release measures

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

#### General advice

Use personal protective clothing. Information regarding personal protective measures see, section 8. Ensure adequate ventilation. Use breathing apparatus if exposed to vapours/dust/aerosol.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

Do not allow to enter into soil/subsoil.

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#### 6.3. Methods and material for containment and cleaning up

##### For containment

For large amounts: Pump off product.

For residues: Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Treat the recovered material as prescribed in the section on waste disposal.

Neutralize with a solution of 5 - 10 % Sodium carbonate, 0,2 - 2 % detergents and 90 - 95 % water.

##### For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

#### 6.4. Reference to other sections

Personal protection equipment: see section 8

Handling and storage: see section 7

For waste disposal see section 13.

## SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

##### Advice on safe handling

Provide suitable exhaust ventilation at the processing machines. Ensure thorough ventilation of stores and work areas. Avoid the formation of aerosol. When handling heated product, vapours of the product should be ventilated, and respiratory protection used. Wear respiratory protection when spraying. Danger of bursting when sealed gastight. Protect from moisture. Clean up contamination as soon as they occur. Provide basic employee training to prevent/minimize exposures. Products freshly manufactured from isocyanates can contain incompletely reacted isocyanates and other dangerous substances, e.g. primary aromatic amines. Industrial cleaning with aprotic polar solvents (meeting the IUPAC definition) may lead to formation of hazardous primary aromatic amine (>0,1%). See Section 11.

##### Advice on protection against fire and explosion

No special measures are necessary.

#### 7.2. Conditions for safe storage, including any incompatibilities

##### Requirements for storage rooms and vessels

Suitable materials for containers: Carbon steel (Iron), HDPE, LDPE, tinned carbon steel (Tinplate), Refined steel 1.4301 (V2)

Unsuitable materials for containers: paper and cardboard

Keep container tightly closed in a cool, well-ventilated place.

Protect from moisture. Development of CO<sub>2</sub> overpressure possible. Danger of bursting when sealed gastight.

##### Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

Keep away from water. Separation of acids and bases.

##### Further information on storage conditions

Protect from sunlight and heat sources. Avoid ignition sources.

#### 7.3. Specific end use(s)

Chemical

## SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Occupational exposure limits

CAS No	Substance	ppm	mg/m <sup>3</sup>	fib/cm <sup>3</sup>	Category	Origin
101-68-8	4,4'-Methylene-diphenyl diisocyanate (as -NCO)	0.005	-		TWA (8 h)	

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#### Additional advice on limit values

Currently there are no further exposure limits available.

#### 8.2. Exposure controls

##### Appropriate engineering controls

Ensure adequate ventilation.

##### Individual protection measures, such as personal protective equipment

##### Eye/face protection

Suitable eye protection: Eye glasses with side protection (EN 166)

##### Hand protection

Chemical resistant protective gloves (EN 374)

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374):

Butyl rubber. Coating thickness: 0,7 mm

NBR (Nitrile rubber). Coating thickness: 0,4 mm

CR (polychloroprenes, Chloroprene rubber). Coating thickness: 0,5 mm

Unsuitable materials

PVC (Polyvinyl chloride). Coating thickness: 0,7mm

Polyethylene-Laminate (PE laminate) Coating thickness: approx. 0,1mm

Suitable materials that provide sufficient protection for industrial cleaning with aprotic polar solvents (meeting the IUPAC definition):

Butyl rubber. Coating thickness: 0,7 mm

NBR (Nitrile rubber). Coating thickness: 0,4 mm

CR (polychloroprenes, Chloroprene rubber). Coating thickness: 0,5 mm

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

##### Skin protection

Body protection must be chosen depending on activity and possible exposure.

Apron. Chemical resistant suit. (DIN EN 14605 DIN EN ISO 13982)

safety shoes (e.g. according to EN 20346)

##### Respiratory protection

Respiratory protection in case of vapour/aerosol release. (Combination filter EN 14387 Filter type: A/P2)

##### Environmental exposure controls

Do not breathe vapour/spray. With products freshly manufactured from isocyanates body protection and chemical resistant protective gloves is recommended. Wearing of closed work clothing is required additionally to the stated personal protection equipment. No eating, drinking, smoking or tobacco use at the place of work.

Take off immediately all contaminated clothing. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied.

## SECTION 9: Physical and chemical properties

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

Physical state:	liquid
Colour:	brown
Odour:	earthy

#### Test method

#### Changes in the physical state

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Melting point/freezing point:	No data available
Boiling point or initial boiling point and boiling range:	330 °C
Sublimation point:	No data available
Softening point:	No data available
Pour point:	No data available
Flash point:	204 °C

#### Flammability

Solid/liquid:	No data available
Gas:	No data available

#### Explosive properties

not Explosive.

Lower explosion limits:	No data available
Upper explosion limits:	No data available
Auto-ignition temperature:	>600 °C

#### Self-ignition temperature

Solid:	No data available
Gas:	No data available

Decomposition temperature:	>230 °C
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pH-Value:	No data available
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Viscosity / dynamic:	170-250 mPa·s	DIN 53018
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Viscosity / kinematic:	No data available
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Flow time:	No data available
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Water solubility:	No data available
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#### Solubility in other solvents

No data available

Partition coefficient n-octanol/water:	No data available
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Vapour pressure: (at 20 °C)	No data available
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Density (at 20 °C):	1,23 g/cm <sup>3</sup>
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Relative density (at 20 °C):	approx. 1,22
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Relative vapour density: (at 20 °C)	8,5	Air
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#### 9.2. Other information

Sustaining combustion:	No data available
Oxidizing properties No data available	

Solvent separation test:	No data available
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Evaporation rate:	No data available
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#### Further Information

Oxidising properties: not oxidizing.

Miscibility with water: Reacts with water.

### SECTION 10: Stability and reactivity

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#### 10.1. Reactivity

No dangerous reactivity under regular conditions.

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

#### 10.2. Chemical stability

The product is stable under normal environmental conditions (room temperature).

#### 10.3. Possibility of hazardous reactions

Reacts with water to form carbon dioxide. Risk of bursting. Reactions with substances containing active hydrogen.

Reaction with: Alcohols. Acids. Alkalis (alkalis). amines. Risk of exothermic reaction

Danger of polymerisation Contact with certain rubbers and plastics can cause brittleness of the substance/product with subsequent loss in strength.

#### 10.4. Conditions to avoid

Temperature <15°C

exposure to moisture

#### 10.5. Incompatible materials

Acids, Alcohols, Amines, Water, alkalines

### SECTION 11: Toxicological information

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

##### Acute toxicity

Harmful if inhaled.

Of moderate toxicity after short-term inhalation. Virtually nontoxic after a single skin contact. Virtually nontoxic after a single ingestion.

Experimental/calculated data:

LC50 rat (by inhalation): approx. 0.493 mg/l 4 h - An aerosol was tested.

(by inhalation):The substance from the isocyanate substance class has been tested in a form (respirable aerosol) that is different from the forms in which the product is placed on the market and used. Therefore, the test result is not adequate for the purpose of classification and labelling of the product. Based on expert judgement and available data, a modified classification and labeling for acute inhalation toxicity is justified. The generation of a respirable aerosol must be prevented!

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
9016-87-9	Isocyanic acid, polymethylenepolyphenylene ester (P-MDI)				
	inhalation vapour	ATE 11 mg/l			
	inhalation aerosol	LC50 - mg/l			

##### Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

##### Sensitising effects

Contains isocyanates. May produce an allergic reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. (Isocyanic acid, polymethylenepolyphenylene ester (P-MDI))

May cause an allergic skin reaction. (Isocyanic acid, polymethylenepolyphenylene ester (P-MDI))

##### Carcinogenic/mutagenic/toxic effects for reproduction

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Suspected of causing cancer. (Isocyanic acid, polymethylenepolyphenylene ester (P-MDI))  
Germ cell mutagenicity: Based on available data, the classification criteria are not met.  
Reproductive toxicity: Based on available data, the classification criteria are not met.  
Germ cell mutagenicity. Assessment of mutagenicity: The substance was mutagenic in various test systems with microorganisms and cell cultures; however, these results could not be confirmed in tests with mammals.  
Assessment of carcinogenicity: Indication of possible carcinogenic effect in animal tests. However, the relevance of this result for humans is unclear. The substance was tested in form of respirable aerosols.  
Industrial cleaning with aprotic polar solvents (meeting the IUPAC definition) may lead to formation of hazardous primary aromatic amine (>0,1%). Primary aromatic amines are chemicals that are regarded as potentially carcinogenic for humans based on animal testing. Some of these chemicals are known human carcinogens. No adverse health effects are anticipated if recommended personal protective equipment and industrial hygiene practices are used.  
Experimental/calculated data: rat (by inhalation) Result: positive  
Assessment of teratogenicity: Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

#### STOT-single exposure

May cause respiratory irritation. (Isocyanic acid, polymethylenepolyphenylene ester (P-MDI))

#### STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure. (Isocyanic acid, polymethylenepolyphenylene ester (P-MDI))  
The substance may cause damage to the lung even after repeated inhalation of low doses, as shown in animal studies.

#### Aspiration hazard

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

#### 11.2. Information on other hazards

##### Endocrine disrupting properties

none known

### SECTION 12: Ecological information

#### 12.1. Toxicity

There is a high probability that the product is not acutely harmful to aquatic organisms.

#### 12.2. Persistence and degradability

Elimination information: < 10 % BOD of the ThOD (28 d) (OECD Guideline 302 C) (aerobic, activated sludge)  
Under test conditions no biodegradation observed.

#### 12.3. Bioaccumulative potential

Assessment bioaccumulation potential: Does not significantly accumulate in organisms.

#### 12.4. Mobility in soil

Adsorption in soil: Adsorption to solid soil phase is not expected.

#### 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

none known

#### 12.7. Other adverse effects

No data available.

#### Further information

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

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods



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#### Disposal recommendations

- Dispose of waste according to applicable legislation.
- Incinerate in suitable incineration plant, observing local authority regulations.
- Dispose of isocyanate waste in dry containers and never mix together with other wastes (reaction, dangerous pressure build up).
- According to the European Waste Catalogue (EWC), allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

#### List of Wastes Code - residues/unused products

- 080501 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes not otherwise specified in 08; waste isocyanates; hazardous waste

#### Contaminated packaging

- Contaminated packaging: Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.
- Do not empty into drains; dispose of this material and its container in a safe way.

### SECTION 14: Transport information

#### Land transport (ADR/RID)

- |   |  |
|---|--|
| <b><u>14.1. UN number or ID number:</u></b>     | No dangerous good in sense of this transport regulation. |
| <b><u>14.2. UN proper shipping name:</u></b>    | No dangerous good in sense of this transport regulation. |
| <b><u>14.3. Transport hazard class(es):</u></b> | No dangerous good in sense of this transport regulation. |
| <b><u>14.4. Packing group:</u></b>              | No dangerous good in sense of this transport regulation. |

#### Inland waterways transport (ADN)

- |   |  |
|---|--|
| <b><u>14.1. UN number or ID number:</u></b>     | No dangerous good in sense of this transport regulation. |
| <b><u>14.2. UN proper shipping name:</u></b>    | No dangerous good in sense of this transport regulation. |
| <b><u>14.3. Transport hazard class(es):</u></b> | No dangerous good in sense of this transport regulation. |
| <b><u>14.4. Packing group:</u></b>              | No dangerous good in sense of this transport regulation. |

#### Marine transport (IMDG)

- |   |  |
|---|--|
| <b><u>14.1. UN number or ID number:</u></b>     | No dangerous good in sense of this transport regulation. |
| <b><u>14.2. UN proper shipping name:</u></b>    | No dangerous good in sense of this transport regulation. |
| <b><u>14.3. Transport hazard class(es):</u></b> | No dangerous good in sense of this transport regulation. |
| <b><u>14.4. Packing group:</u></b>              | No dangerous good in sense of this transport regulation. |

#### Air transport (ICAO-TI/IATA-DGR)

- |   |  |
|---|--|
| <b><u>14.1. UN number or ID number:</u></b>     | No dangerous good in sense of this transport regulation. |
| <b><u>14.2. UN proper shipping name:</u></b>    | No dangerous good in sense of this transport regulation. |
| <b><u>14.3. Transport hazard class(es):</u></b> | No dangerous good in sense of this transport regulation. |
| <b><u>14.4. Packing group:</u></b>              | No dangerous good in sense of this transport regulation. |

#### **14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

#### **14.6. Special precautions for user**

No special precautions known.

#### **14.7. Maritime transport in bulk according to IMO instruments**

not applicable

### SECTION 15: Regulatory information

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

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#### EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3

Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

#### Additional information

Regulation (EC) No. 648/2004 (Detergents regulation): not applicable

Regulation (EC) No. 1005/2009 on substances that lead to the depletion of the ozone layer: not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants: not applicable

Regulation (EC) No 649/2012 of the European Parliament and of the Council concerning the export and import of dangerous chemicals: This mix contains no chemicals that are subject to the export notification procedures (annex 1).

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

This mixture contains the following substances of very high concern (SVHC) which are subject to authorisation according to Annex XIV of REACH: none

#### National regulatory information

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe employment restrictions for women of child-bearing age.

Water hazard class (D):

1 - slightly hazardous to water

#### Additional information

Observe in addition any national regulations!

#### 15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

### SECTION 16: Other information

#### Changes

This data sheet contains changes from the previous version in section(s):

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16.

Version 1,00 - 27.05.2021 - first creation

Version 1,01 - 12.01.2022 - General revision as part of translation activities

#### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

BImSchV (Fed.Imm.Prot.Act): Directive on the Implementation of the Federal Immission Protection Act

CAS: Chemical Abstracts Service

DIN: Norm of the Deutsche Institut für Normung (German Institute for Standardization)

EC: Effective Concentration

EG: European Community (Europäische Gemeinschaft)

EN: European Norm

IATA: International Air Transport Association

IBC Code: International Code for the Construction and Equipment of ships carrying Dangerous Chemicals in Bulk

ICAO: International Civil Aviation Organization

IMDG: International Maritime Code for Dangerous Goods

ISO: Norm of the International Standards Organization

CLP: Classification, Labeling, Packaging

IUCLID: International Uniform Chemical Information Database

LC: Lethal concentration

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LD: Lethal dose  
log Kow: Octanol/water partition coefficient  
MARPOL: Maritime Pollution Convention = Convention for the Prevention of Maritime Pollution from Ships  
OECD: Organisation for Economic Co-operation and Development  
PBT: Persistent, bio-cumulative, toxic  
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail  
TRGS: Technische Regeln für Gefahrstoffe  
UN: United Nations  
VOC: Volatile Organic Compounds  
vPvB: very persistent and very bio-cumulative  
VwVwS: Administrative Regulation for Water Pollutants  
WGK: German Water Hazard Class  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
DNEL: Derived No Effect Level  
PNEC: Predicted No Effect Concentration  
TLV: Threshold Limiting Value  
STOT: Specific Target Organ Toxicity  
AwSV: Ordinance on Installations for Handling Substances Hazardous to Water

#### Relevant H and EUH statements (number and full text)

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H373	May cause damage to organs (Respiratory tract) through prolonged or repeated exposure if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
EUH204	Contains isocyanates. May produce an allergic reaction.

#### Further Information

The information given in this safety data sheet is to describe the product's safety regulations. It is not for guaranteeing certain characteristics and is based on today's knowledge. The safety data sheet was generated upon information of pre-suppliers by:

assesso AG, Ottostraße 1, 63741, Aschaffenburg, Germany  
Phone: +49 (0)6021 - 1 50 86-0, Fax: +49 (0)6021 - 1 50 86-77, E-Mail: eu-sds@assesso.eu, www.assesso.eu