

SAFETY DATA SHEET

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

1.1 Product identifier

- Product Name: PICS PU SEALER
- Product Code: PU20

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

- Use of the substance/mixture: Solvent-borne coatings.
- Recommended restrictions on use: Reserved for industrial and professional use.

1.3 Details of the supplier of the safety data sheet

- Name of Supplier: PICS Ltd
- Address of Supplier: Unit 2 & 4
Red Shute Hill Ind Estate
Hermitage
Newbury
Berkshire
RG18 9QL
UK
- Telephone: +44 (0) 1635 202224
- Email: Info@picsuk.com

1.4 Emergency telephone number

- Emergency Telephone: +44 (0) 1635 202224
(office hours only Mon– Fri 08:00 – 17:30)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (GB CLP)

- Flammable liquids, category 3; H226: Flammable liquid and vapour.
- Acute toxicity, category 4; H332: Harmful if inhaled.
- Acute toxicity, category 4; H312: Harmful in contact with skin.
- Skin irritation, category 2; H315: Causes skin irritation.
- Eye irritation, category 2; H319; Causes serious eye irritation,
- Respiratory sensitisation, category 1; H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- Specific target organ toxicity – single exposure, category 3, respiratory system; H335: May cause respiratory irritation.
- Specific target organ toxicity – repeated exposure, category 2; H373: May cause damage to organs through prolonged repeated exposure.
- Aspiration hazard, category 1; H304: May be fatal if swallowed and enters airways.
- Long-term (chronic) aquatic hazard, category 3; H413: Harmful to aquatic life with long lasting effects.

2.2 Label elements

Classification (GB CLP)

- Hazard pictograms:



- Signal word: Danger
- Hazard statements:
H226 – Flammable liquid and vapour.
H304 – May be fatal if swallowed and enters airways.
H312 + H332 – Harmful in contact with skin or if inhaled.
H315 – Causes skin irritation.
H319 – Causes serious eye irritation.
H334 – May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 – May cause respiratory irritation.
H373 – May cause damage to organs through prolonged or repeated exposure.
H412 – Harmful to aquatic life with long lasting effects.
- Precautionary statements, Prevention:
P210 – Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 – Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
- Precautionary statements, Response:
P301 + P310 – IF SWALLOWED: Immediately call POISON CENTRE/ doctor.

P304 + P341 + P312 – IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE/ doctor if you feel unwell.

P331 – Do NOT induce vomiting.

P342 + P311 – If experiencing respiratory symptoms: Call a POISON CENTRE/ doctor.

P370 + P378 – In case for fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

- Hazardous components that may be listed on the label:
Reaction mass of ethylbenzene and xylene.
m-tolyldiene diisocyanate.

2.3 Other hazards

- This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances

- Not relevant

3.2 Mixtures

Chemical Name	CAS-No. EC-No. Index-No. Registration No.	Classification	Concentration (% w/w)
Reaction mass of ethylbenzene and xylene	Not assigned 905-588-0 01-2119488216-32-XXXX	Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 (respiratory system) STOT RE 2; H373 Asp. Tox. 1; H304 Aquatic Chronic 3; H412	>=70 - < 90
m-tolyldiene diisocyanate	26471-62-5 247-722-4 615-006-00-4	Carc. 2; H351 Acute Tox. 1; H330 Eye Irrit. 2; H319 STOT SE 3; H335 Skin Irrit. 2; H315 Resp. Sens. 1; H334 Skin Sens. 1; H317 Aquatic Chronic 3; H412 Specific concentration limit Resp. Sens. 1; H334 >= 0.1%	>= 0.25 - < 1
2,6-di-tert-butyl-p-cresol	128-37-0 204-881-4 01-2119555270-46-xxxx, UK-01-7190623247-6-0001	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.1 - < 0.25

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- Protection for first-aiders: First aid responders should pay attention to self-protection and use the recommended protective clothing. If potential for exposure exists refer to Section 8 for specific personal protective equipment.
- If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Call a physician or poison control centre immediately. If breathing is difficult, give oxygen. Keep respiratory tract clear.
- In case of skin contact: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. If symptoms persist, call a physician. Call a physician or poison control centre immediately.
- In case of eye contact: If eye irritation persists, consult a specialist.
- If swallowed: Call a physician or poison control centre immediately. Rinse mouth with water. If victim is fully conscious, give a cupful of water. DO NOT induce vomiting unless directed to do so by a physician or poison control centre. Never give anything by mouth to an unconscious person. Do not give milk or alcoholic beverages. Obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms: No information available.
- Risks: No information available.

- 4.3 Indication of any immediate medical attention and specialist treatment needed
 - Treatment: The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media
 - Suitable extinguishing media: Alcohol resistant foam. Dry chemical.
- 5.2 Special hazards arising from the substance or mixture
 - Specific hazards during firefighting: Burning produces irritant fumes. Burning produces noxious and toxic fumes.
- 5.3 Advice for firefighters
 - Special protective equipment for firefighters: Wear full protective clothing and self-contaminated breathing apparatus.
 - Further information: Use water spray to cool unopened containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
 - Personal precautions: Use personal protective equipment. Ensure adequate ventilation.
- 6.2 Environmental precautions
 - Environmental precautions: Try to prevent the material from entering drains or water courses.
- 6.3 Methods and material for containment and cleaning up
 - Methods for cleaning up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.
- 6.4 Reference to other sections
 - Refer to protective measures listed in Section 7 & Section 8.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling
 - Advice for safe handling: Avoid formation of aerosol. Avoid exceeding the given occupational exposure limits (See Section 8). Avoid contact with skin and eyes. For personal protection see Section 8. Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms.
 - Advice on protection against fire and explosion: Avoid formation of aerosol. Keep away from sources of ignition – no smoking. Take measure to prevent the build-up of electrostatic charge.
 - Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.
- 7.2 Conditions for safe storage, including any incompatibilities
 - Requirements for storage areas and containers: No smoking. Keep container rightly closed in a dry and well ventilated place. Container can be pressurized by carbon dioxide due to reaction with humid air and/or water. Protect from moisture. Keep under nitrogen.
 - Further information on storage stability: No decomposition if stored and applied as directed.
- 7.3 Specific end use(s)
 - Solvent-bourne coatings

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits:

Components	CAS-No.	Value type (Form of Exposure)	Control parameters	Basis
m-tolyldene diisocyanate	26471-62-5	TWA	0.02mg/m ³	GB EH40
		STEL	0.07 mg/m ³	GB EH40
2,6-di-tert-butyl-p-cresol	128-37-0	TWA	10 mg/m ³	GB EH40
Further information	Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.			

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
2,6-di-tert-butyl-p-cresol	Workers	Skin contact		0.5 mg/kg
	Workers	Inhalation		3.5 mg/m ³

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental compartment	Value
2,6-di-tert-butyl-p-cresol	Fresh water	0.000199 mg/l
	Marine Water	0.000019 mg/l
	Fresh water sediment	0.0996 mg/kg
	Marine sediment	0.00996 mg/kg
	Soil	0.04769 mg/kg

8.2 Exposure controls

- Eye protection:
Eye wash bottle with pure water.
Tightly fitting safety goggles.
- Hand protection:
Material – Nitrile rubber.
Breakthrough time - >480 min.
Glove thickness – 0.4-0.6mm.
Remarks – Solvent-resistant gloves before removing gloves clean them with soapy and water. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN374 derived from it.
- Skin and body protection:
Impervious clothing. Choose body protection according to the amount and concentration of the dangerous substance at the workplace.
- Respiratory protection:
In the case of vapour formation use a respirator with an approved filter. Respirator with combination filter for vapour/particulate (EN 141).
- Filter type:
Filter type AB-P
combined particulates, inorganic gas/vapour and organic vapour type (AB-P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	Liquid
Colour:	Light yellow
Odour:	Characteristic, solvent-like
Flash point:	26°C, Method: closed-cup
Relative density:	0.85 – 0.95 (25 °C)
Solubility(ies):	Soluble
Solubility(ies) in other solvents:	Solvent: organic solvents
Viscosity	<60 mPa.s (25°C)

9.2 Other information

- Flammability (liquid): No data available.
- Oxidizing potential: No information available.
- Molecular weight: No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

- Stable under recommended storage conditions.

10.2 Chemical stability

- No decomposition if stored and applied as directed.

10.3 Possibility of hazard reactions

- Stable under recommended storage conditions.
- No decomposition if used as directed.

10.4 Conditions to avoid

- Conditions to avoid: Heat, flames and sparks.

10.5 Incompatible materials

- None known.

10.6 Hazardous decomposition products

- Carbon dioxide (CO₂), carbon monoxide (CO), Oxides of Nitrogen (NO_x), dense black smoke. Isocyanates.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

- Information on likely routes of exposure:
 - Inhalation.
 - Eye contact.
 - Skin contact.
 - Skin absorption.

Acute toxicity

- **Product:**
Acute oral toxicity: Remarks – Not classified due to lack of data.

Components:

m-tolylidene diisocyanate:	
Acute oral toxicity	LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	LC50 (Rat): 0.48 mg/l Exposure time: 1 h Test atmosphere: Vapour Method: OECD Test Guideline 403
Acute dermal toxicity	LD50 (rabbit): > 9,400 mg/kg
2,6-di-tert-butyl-p-cresol:	
Acute oral toxicity	LD50 (Rat, male and female): > 2,930 mg/kg Method: OECD Test Guideline 401 GLP: yes Assessment: The substance or mixture has no acute oral toxicity Remarks: No mortality observed at this dose
Acute Dermal Toxicity	LD50 (Rat, male and female): > 2,000 mg/kg Method: OECD Test Guideline 402 GLP: yes Assessment: The substance or mixture has no acute dermal toxicity Remarks: No mortality observed at this dose

Skin Corrosion/irritation

- **Product:**
Remarks: May cause skin irritation and/or dermatitis.

Components:

m-tolylidene diisocyanate:	
Species	Rabbit
Result	Severe skin irritation
2,6-di-tert-butyl-p-cresol:	
Species	Rabbit
Result	No skin irritation

Serious eye damage/eye irritation

- **Product:**
Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin.

Components:

m-tolylidene diisocyanate:	
Species	Rabbit.
Result	Risk of serious damage to eyes.
2,6-di-tert-butyl-p-cresol:	
Species	Rabbit.
Result	No eye irritation.

Respiratory or skin sensitisation

Components:

m-tolylidene diisocyanate:	
Species	Guinea pig.
Assessment	May cause sensitisation by skin contact.
Result	Causes sensitisation.

2,6-di-tert-butyl-p-cresol:	
Species	Guinea pig.
Result	Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity

Components:

2,6-di-tert-butyl-p-cresol:	
Genotoxicity in vitro	Test type: Ames test. Metabolic activation: With and without metabolic activation. Result: Negative
	Test type: Chromosome aberration test in vitro. Metabolic activation: With and without metabolic activation. Result: Negative.
	Test type: Unscheduled DNA synthesis assay. Result: Negative.
	Test type: In vitro mammalian gene mutation test. Result: Negative.
Genotoxicity in vivo	Test type: In vivo micronucleus test. Species: Mouse (male and female). Cell type: Bone marrow. Method: Mutagenicity (micronucleus test). Result: Negative. Test type: In vivo assay. Species: Rat (male). Cell type: Bone Marrow. Application route: Oral. Method: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis). Result: negative.
Germ cell mutagenicity assessment	Animal testing did not show any mutagenic effects.

Carcinogenicity

- **Product:**
Carcinogenicity assessment: Not classified due to lack of data.

Reproductive toxicity

- **Product:**
Reproductive toxicity assessment: Not classified due to lack of data.

Components:

2,6-di-tert-butyl-p-cresol:	
Reproductive toxicity assessment	No toxicity to reproduction No effects on or via lactation

STOT – single exposure

- **Product:**
Assessment: Not classified due to lack of data.

STOT – repeated exposure

- **Product:**
Assessment: Not classified due to lack of data.

Components:

2,6-di-tert-butyl-p-cresol:	
Exposure routes:	Oral.
Assessment:	The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration toxicity

- **Product:**
Assessment: Not classified due to lack of data.

Further information

- **Product:**
Remarks: Solvents may degrease the skin.

SECTION 12: Ecological information

12.1 Toxicity

Components:

m-tolylidene diisocyanate:	
Toxicity to fish	LC50 (Pimephales promelas (fathead minnow)): 147 mg/l Exposure time: 48 h LC50 (Oncorhynchus mykiss (rainbow trout)): 133 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	LC50 (Palaeomonetes vulgaris (Grass shrimp)): >508 mg/l Exposure time: 48 h EC50 (Daphnia magna (Water flea)): 12.5 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	EC50 (Chlorella vulgaris (Fresh water algae)): 4,300 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates (chronic toxicity)	NOEC: 1.1 mg/l Exposure time: 21 d Species: Daphnia magna (water flea) Method: OECD Test Guideline 211 Remarks: Possible decomposition products in case of hydrolysis are: Diaminotoluene (TDA)
2,6-di-tert-butyl-p-cresol:	
Toxicity to fish	LC0 (Danio rerio (Zebra fish)): > 0.57 mg/l Exposure time: 96 h Test type: semi-static test Method: Directive 67/548/EEC, Annex V, C.1. GLP: yes Remarks: Aquatic toxicity is unlikely due to low solubility.
Toxicity to daphnia and other aquatic invertebrates	EC50 (Daphnia magna (Water flees)): 0.48 mg/l Exposure time: 48 h Method: Directive 67/548/EEC, Annex V, C.2. Remarks: Aquatic toxicity is unlikely due to low solubility.
Toxicity to algae/aquatic plants:	ErC50 (Green algae (Scenedesmus subspicatus)): > 0.4 mg/l End point: Growth rate Exposure time: 72 h Method: Directive 57/548/EEC, Annex V, C.3. GLP: yes Remarks: Aquatic toxicity is unlikely due to low solubility.
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	NOEC: 0.07 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Analytical monitoring: yes GLP: yes

12.2 Persistence and degradability

- **Product:**
Biodegradability: Remarks, no data available.

Components:

2,6-di-tert-butyl-p-cresol:	
Biodegradability	Test type: Aerobic. Inoculum: Activated sludge. Concentration: 50mg/l Result: Not rapidly biodegradable Biodegradation: 4.5 % Exposure time: 28 d

12.3 Bioaccumulative potential

- **Product:**
Bioaccumulation: remarks, No data available.

Components:

2,6-di-tert-butyl-p-cresol:	
Bioaccumulation	Species: Cyprinus carpio (carp) Exposure time: 56 d Temperature: 25°C Concentration: 0.05 mg/l Bioconcentration factor (BCF): 230 – 2,500
Partition coefficient: noctanol/water	Log Pow: 5.1 GLP: Yes. Log Pow: 4.2

12.4 Mobility in soil

- **Product:**
Mobility: remarks, no data available.

12.5 Results of PBT and vPvB assessment

- **Product:**
Assessment: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

- **Product:**
Endocrine disrupting potential: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) of Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
Additional ecological information: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. This product is no known ecotoxicological effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Product: Dispose of wastes in an approved waste disposal facility. In accordance with local and national regulations. Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container.
- Contaminated packaging: Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers. Do not burn, or use a cutting torch on the empty drum.

SECTION 14: Transport information

14.1 UN number

ADN	UN 1866
ADR	UN 1866
RID	UN 1866
IMDG	UN 1866
IATA	UN 1866

14.2 UN proper shipping name

ADN	Resin Solution
ADR	Resin Solution
RID	Resin Solution
IMDG	Resin Solution
IATA	Resin Solution

14.3 Transport hazard class(es)

ADN	3
ADR	3
RID	3
IMDG	3
IATA	3

14.4 Packing group:

ADN	
Packaging group	III
Classification code	F1
Hazard Identification	30
Labels	3
ADR	
Packaging group	III
Classification code	F1
Hazard Identification	30
Labels	3
Tunnel restriction code	(D/E)
RID	
Packaging group	III
Classification code	F1
Hazard Identification	30
Labels	3
IMDG	
Packaging group	III
Labels	3
EmS Code	F-E, S-E
IATA (Cargo)	
Packing instruction (cargo aircraft)	366
Packing instructions (LQ)	Y344
Packing Group	III
Labels	Flammable Liquids
IATA (Passenger)	
Packing instruction (passenger aircraft)	366
Packing instructions (LQ)	Y344
Packing Group	III
Labels	Flammable Liquids

14.5 Environmental hazards

ADN Environmentally Hazardous	No
ADR Environmentally Hazardous	No
RID Environmentally Hazardous	No
IMDG Marine Pollutant	No

14.6 Special precautions for user

- The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional country regulations.

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

- Not applicable for product as supplied.

SECTION 15: Regulatory information

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

- REACH – Candidate List of Substances of Very High Concern for Authorisation (Article 50): This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).
- REACH – List of substances subject to authorisation (Annex XIV): Not applicable.
- Regulation (EC) No 1005/2009 on substances that deplete the ozone layer: Not applicable.
- Regulation (EU) 2019/1021 on persistent organic pollutants (recast): Not applicable.
- REACH – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII): Conditions of restriction for the following entries should be considered (number on list 3). Diisononyl phthalate (Number on list 52).
- Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

H2	Acute toxic.
P5c	Flammable liquids.
Volatile organic compounds	Volatile organic compounds (VOC) content: 70.5%.
The components of this product are reported in the following inventories:	
TCSI	Not in compliance with the inventory.
US.TSCA	All substances listed as active on the TSCA inventory.
AIIC	On the inventory, or in compliance with the inventory.
DSL	All components of this product are on the Canadian DSL
ENCS	Not in compliance with the inventory.
ISHL	Not in compliance with the inventory.
KECI	On the inventory, or in compliance with the inventory.
PICCS	Not in compliance with the inventory.
IECSC	On the inventory, or in compliance with the inventory.
NZIoC	Not in compliance with the inventory.

15.2 Chemical safety assessment

- No information available.

SECTION 16: Other information

- Risk phrases in full:
 H226: Flammable.
 H304: May be fatal if swallowed and enters airways.
 H312: Harmful in contact with skin.
 H315: Causes skin irritation.
 H317: May cause an allergic skin reaction.
 H319: Causes serious eye irritation.
 H330: Fatal if inhaled.
 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 through prolonged or repeated exposure.
 H400: Very toxic to aquatic life.
 H410: Very toxic to aquatic life with long lasting effects.
 H412: Harmful to aquatic life with long lasting effects.
- Full text of other abbreviations:
 Acute Tox.: Acute toxicity.
 Aquatic Acute: Short-term (acute) aquatic hazard.
 Aquatic Chronic: Long-term (chronic) aquatic hazard.
 Asp. Tox.: Aspiration hazard.
 Carc.: Carcinogenicity.
 Eye Irrit.: Eye irritation.
 Flam. Liq.: Flammable liquids.
 Resp. Sens.: Respiratory sensitisation.
 Skin Irrit.: Skin irritation.
 Skin Sens.: Skin sensitisation.
 STOT RE: Specific target organ toxicity – repeated exposure.
 STOT SE: Specific target organ toxicity – single exposure.
 GB EH40: UK. EH40 WEL – Workplace Exposure Limits.
 GB EH40 / TWA: Long-term exposure limit (8-hour TWA reference period).
 GB EH40 / STEL: Occupational exposure limit value short-term, 15 minute.
 GB EH40/ TWA: Occupational Exposure Limit of 8 hours.
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
 ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
 AIIC: Australian Inventory of Industrial Chemicals.
 ASTM: American Society for the Testing of Materials.
 BW: Body Weight.
 CLP: Classification Labelling Packaging Regulation.
 CMR: Carcinogen, Mutagen or Reproductive Toxicant.
 DIN: Standard of the German Institute for Standardisation.
 DSL: Domestic Substances List (Canada).
 ECHA: European Chemical Agency.
 EC-Number: European Community Number.
 ECx: Concentration associated with x% response.
 ELx: Loading rate associated with x% response.
 EmS: Emergency schedule.
 ENCS: Existing and New Chemical Substances (Japan).
 ErCx: Concentration associated with x% growth rate response.

- GHS: Globally Harmonised System.
- GLP: Good Laboratory Practice; IARC: International Agency for Research on Cancer.
- IATA: International Air Transport Association.
- IBC: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk.
- IC50: Half maximal inhibitory concentration.
- ICAO: International Civil Aviation Organisation.
- IECSC: Inventory of Existing Chemical Substances in China.
- IMDG: International Maritime Dangerous Goods.
- IMO: International Maritime Organisation.
- ISHL: Industrial Safety and Health Law (Japan).
- ISO: International Organisation for Standardisation.
- KECI: Korea Existing Chemicals Inventory.
- LC50: Lethal Concentration to 50% of a test population.
- LD50: Lethal Dose to 50% of a test population (Median Lethal Dose).
- MARPOL: International Convention for the Prevention of Pollution from Ships.
- N.O.S: Not Otherwise Specified.
- NO(A)EC: No Observed (Adverse) Effect Concentration.
- NO(A)EL: No Observed (Adverse) Effect Level.
- NOELR: No Observative Effect Loading Rate.
- NZIoC: New Zealand Inventory of Chemicals.
- OECD: Organisation for Economic Co-Operation and Development.
- OPPTS: Office of Chemical Safety and Pollution Prevention.
- PBT: Persistent, Bioaccumulative and Toxic substance.
- PICCS: Philippines Inventory of Chemicals and Chemical Substances.
- (Q)SAR – (Quantative) Structure Activity Relationship.
- REACH – Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and restriction of Chemicals.
- RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.
- SADT: Self-Accelerating Decomposition Temperature.
- SDS: Safety Data Sheet.
- SVHC: Substance of Very High Concern.
- TCSI: Taiwan Chemical Substance Inventory.
- TRGS: Technical Rule for Hazardous Substances.
- TSCA: Toxic Substances Control Act (Untied States).
- UN: United Nations.
- vPvB: Very Persistent and Very Bioaccumulative.
- Further information:

Classification of the mixture:		Classification procedure:
Flam. Liq. 3	H226	Based on product data or assessment.
Acute Tox. 4	H332	Calculation method.
Acute Tox. 4	H312	Calculation method.
Skin Irrit. 2	H315	Calculation method.
Eye Irrit. 2	H319	Calculation method.
Resp. Sens. 1	H334	Calculation method.
STOT SE 3	H335	Calculation method.
STOT RE 2	H373	Calculation method.
Aps. Tox. 1	H304	Calculation method.
Aquatic Chronic 3	H412	Calculation method.

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, us, processing, storage, transportation, disposal and release and 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.

--End of Safety Data Sheet--