

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

1.1. Product identifier

Product form	: Mixture
Trade name	: SHUFILL URETHANE SHORE A50 MEDIUM (A) 250ML
UFI	: PPU4-7TFR-RKK5-T29N
Product code	: 200150250
Type of product	: 2K-adhesives

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

1.2.1. Relevant identified uses

Main use category	: Professional use
Use of the substance/mixture	: 2K-adhesives

1.2.2. Uses advised against

Restrictions on use	: No additional information available
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1.3. Details of the supplier of the safety data sheet

Glue-U Adhesives B.V.
Droogdokkeneiland 8
5026 SR Tilburg - Nederland
T 013 - 545 3118
sales@glue-u.com

1.4. Emergency telephone number

No additional information available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP] Mixtures/Substances: SDS EU > 2015: According to Regulation (EU) 2015/830, 2020/878 (REACH Annex II)

Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Respiratory sensitisation, Category 1	H334
Skin sensitisation, Category 1	H317
Carcinogenicity, Category 2	H351
Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	H335
Specific target organ toxicity — Repeated exposure, Category 2	H373
Full text of H-statements: see section 16	

Adverse physicochemical, human health and environmental effects

Potential effects (delayed or immediate) can be expected after short or long-term exposure.

2.2. Label elements

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

Hazard pictograms (CLP)



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Signal word (CLP)	: Danger
Contains	: 4,4'-METHYLENEDIPHENYL DIISOCYANATE, OLIGOMERS
Hazard statements (CLP)	: H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. 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.
Precautionary statements (CLP)	: P201 - Obtain special instructions before use. P280 - Wear protective clothing, eye protection, face protection, protective gloves. P284 - In case of inadequate ventilation wear respiratory protection. P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P308+P313 - IF exposed or concerned: Get medical advice/attention. P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
EUH-statements	: EUH204 - Contains isocyanates. May produce an allergic reaction.
Extra phrases	: As from 24 August 2023 adequate training is required before industrial or professional use.

2.3. Other hazards

Other hazards which do not result in classification	: This substance / mixture does not contain components considered to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
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The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

SECTION 3: Composition/information on ingredients

3.1. Substances

No data available

3.2. Mixtures

Comments	: This product does not contain additional ingredients that are classified according to the current knowledge of the supplier and contribute to the classification of the product and therefore need to be mentioned in this section
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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
4,4'-METHYLENEDIPHENYL DIISOCYANATE, OLIGOMERS substance with a Community workplace exposure limit	CAS-No.: 25686-28-6 EC-No.: 500-040-3 REACH-no: 01-2119457013-49	50 – 100	Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373

Specific concentration limits

Name	Product identifier	Specific concentration limits
4,4'-METHYLENEDIPHENYL DIISOCYANATE, OLIGOMERS	CAS-No.: 25686-28-6 EC-No.: 500-040-3 REACH-no: 01-2119457013-49	(0 <C ≤ 5) Eye Irrit. 2, H319 (0 <C ≤ 5) STOT SE 3, H335 (0 <C ≤ 5) Skin Irrit. 2, H315 (0 <C ≤ 0.1) Resp. Sens. 1, H334

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

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SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. Call a physician immediately. May cause irritation or asthma-like symptoms. Symptoms may be delayed.
First-aid measures after skin contact	: Remove contaminated clothing and shoes. Brush off loose particles from skin. Rinse immediately with plenty of water. Use soap if available or follow washing with soap and water. Wash contaminated clothing before reuse. Call a physician immediately.
First-aid measures after eye contact	: Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). Contact ophthalmologist immediately.
First-aid measures after ingestion	: Give nothing to drink (not induce vomiting.) If the victim is unconscious or very drowsy. Get immediate medical advice/attention.

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

Symptoms/effects	: May cause damage to organs through prolonged or repeated exposure.
Symptoms/effects after inhalation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause sensitisation of susceptible persons by inhalation.
Symptoms/effects after skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: May cause severe irritation.
Symptoms/effects after ingestion	: Irritation to throat and respiratory system. Shortness of breath.
Chronic symptoms	: Suspected carcinogen.

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

No additional information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Dry chemical, CO ₂ , or water spray or regular foam.
Unsuitable extinguishing media	: No supplementary information available.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire	: Toxic and irritating gases are released. Avoid inhalation of combustion products.
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5.3. Advice for firefighters

Precautionary measures fire	: Avoid decomposition of the product and the development of substances that are potentially hazardous to health. Use water spray or fog for cooling exposed containers.
Firefighting instructions	: Provision to contain effluent from fire extinguishing. Prevent fire fighting water from entering the environment. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Protection during firefighting	: All fire-fighting personnel must wear safety suits, including self-contained breathing apparatus. Do not attempt to take action without suitable protective equipment. Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Stop leak if safe to do so.
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6.1.1. For non-emergency personnel

Protective equipment	: Wear recommended personal protective equipment. Approved supplied-air respirator when exposed to vapours from heated material.
Emergency procedures	: Keep unprotected people away. Do not breathe vapours. Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment.
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6.2. Environmental precautions

Avoid release to the environment. Do not allow to enter sewers, surface or groundwater.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Clean up immediately by sweeping or vacuum. Use suitable disposal containers. For further information, refer to section 10 : "Stability and Reactivity". Absorb remaining liquid with sand or inert absorbent and remove to safe place.
- Other information : Ventilate area. Concerning disposal elimination after cleaning, see section 13.

6.4. Reference to other sections

Wear personal protective clothing (see chapter 8). Information regarding storage, see chapter 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : The substance must be handled in accordance with good industrial hygiene and safety procedures. These procedures prevent unnecessary exposure and contact with skin, eyes and clothing. Education and training of workers in the safe use and handling of this material is required. Provide adequate ventilation. Use only outdoors or in a well-ventilated area.
- Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Remove contaminated clothing and protective equipment before entering eating areas.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Provide local exhaust or general room ventilation. Take precautionary measures against static discharge.
- Storage conditions : Keep in a cool, well-ventilated place away from heat. Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. do not store in unlabelled containers. Protect from moisture.
- Incompatible products : Keep away from oxidizing agents, acids, bases and water.
- Storage temperature : 18 – 32 °C
- Heat and ignition sources : Protect from heat and direct sunlight.
- Storage area : Store in a well-ventilated place. Keep container tightly closed.

7.3. Specific end use(s)

No additional information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National occupational exposure and biological limit values

SHUFILL URETHANE SHORE A50 MEDIUM (A) 250ML	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA [ppm]	0.005 ppm
4,4'-METHYLENEDIPHENYL DIISOCYANATE, OLIGOMERS (25686-28-6)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL STEL [ppm]	0.005 ppm

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8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Hazard control from vapor or spray mist is ideally performed by the use of engineering controls. MDI levels must be monitored. Provide good extraction / ventilation of the workplace. Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the protective equipment. In case of using personal protective equipment it should have CE marking in accordance with Directive 89/686/EC. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Try to keep exposure levels as low as possible through maximum assured protection by means of shorter replacement times.

8.2.2. Personal protection equipment

Personal protective equipment:

Safety glasses. Gloves. Insufficient ventilation: wear respiratory protection.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

(safety glasses). Splash goggles. Chemical goggles. EN 166

8.2.2.2. Skin protection

Skin and body protection:

Completely skin-covering anti-static, chemical and oil resistant clothing. EN 340. EN ISO 13688. Chemical resistant safety shoes. Wash thoroughly after handling. Wash skin with soap and water

Hand protection:

Wear suitable gloves. Nitrile rubber gloves. Layer thickness : > 0,35 mm. Breakthrough time : > 480 min. Check leak tightness / impermeability prior to use. Chemical protective gloves should be selected specifically for the workplace, depending on the concentration and amount of hazardous substances. Consult supplier for specific recommendations. Chemical resistant gloves (according to European standard EN 374 or equivalent). Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Since the product consists of several substances, the durability of the glove material cannot be estimated and needs to be tested before use. Permeation level: 6

8.2.2.3. Respiratory protection

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Full / half / quarter mask (EN 136/140). Type ABEK-P2 (combination filter for gases, vapors and particles, color code: brown / gray / yellow / green / white)

8.2.2.4. Thermal hazards

No additional information available

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8.2.3. Environmental exposure controls

Environmental exposure controls:

Do not allow to enter into surface water or drains. Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Yellow. straw yellow.
Odour	: Not available.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: > 300 °C
Flammability	: Not available
Explosive properties	: No data available.
Oxidising properties	: No data available.
Explosive limits	: Not available
Lower explosive limit (LEL)	: Not available
Upper explosive limit (UEL)	: Not available
Flash point	: 205 °C
Auto-ignition temperature	: > 600 °C
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: Not available
Solubility	: Not available.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Partition coefficient n-octanol/water (Log Pow)	: Not available
Vapour pressure	: 0.01 Pa
Vapour pressure at 50 °C	: Not available
Density	: 1.1 g/cm ³
Relative density	: Not available
Relative vapour density at 20 °C	: Not available
Particle size	: No data available
Particle size distribution	: No data available
Particle shape	: No data available
Particle aspect ratio	: No data available
Particle aggregation state	: No data available
Particle agglomeration state	: No data available
Particle specific surface area	: No data available
Particle dustiness	: No data available

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

Relative evaporation rate (butylacetate=1)	: Not available
Note	: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guarantee analysis of any specific lot or as specifications for the product.

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

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10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

Avoid moisture and temperature above 32 °C and below 18 °C. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Follow the rules that apply when handling mineral oils and chemical products.

10.5. Incompatible materials

Strong oxidizing agents. Acids, alkalis and oxidizing agent. Water, humidity. alcohols. Amines. Ammonia solution. an aluminum. Zinc. Brass. Copper. Galvanized steel.

10.6. Hazardous decomposition products

Not available.

SECTION 11: Toxicological information

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

Acute toxicity (oral)	: Not classified (The statements are derived from the properties of the single components. No toxicological data is available for the product as such.)
Acute toxicity (dermal)	: Not classified (The experimental information related to the toxicological properties of the product itself is not available)
Acute toxicity (inhalation)	: Not classified (The experimental information related to the toxicological properties of the product itself is not available)
Additional information	: May cause eye, skin and respiratory system irritation

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ATE CLP (dust,mist)	20 mg/l
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4,4'-METHYLENEDIPHENYL DIISOCYANATE, OLIGOMERS (25686-28-6)

LD50 oral rat	> 5000 mg/kg
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LD50 dermal rat	> 9400 mg/kg
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LC50 Inhalation - Rat (Dust/Mist)	< 0.49 mg/l/4h
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Skin corrosion/irritation	: Irritation to skin. pH: Not available
Serious eye damage/irritation	: Irritating to eyes pH: Not available
Respiratory or skin sensitisation	: May cause sensitization by inhalation and skin contact
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Suspected of causing cancer.
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause respiratory irritation.

4,4'-METHYLENEDIPHENYL DIISOCYANATE, OLIGOMERS (25686-28-6)

STOT-single exposure	May cause respiratory irritation.
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STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.
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4,4'-METHYLENEDIPHENYL DIISOCYANATE, OLIGOMERS (25686-28-6)

STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
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Aspiration hazard	: Not classified
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11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : No data available.
Hazardous to the aquatic environment, short-term (acute) : Not classified
Hazardous to the aquatic environment, long-term (chronic) : Not classified
Additional information : Handle in accordance with good industrial hygiene and safety practice. Do not allow product to spread into the environment. In case of contamination of soil or water bodies notify the competent authorities.

12.2. Persistence and degradability

SHUFILL URETHANE SHORE A50 MEDIUM (A) 250ML

Persistence and degradability	No information available.
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12.3. Bioaccumulative potential

SHUFILL URETHANE SHORE A50 MEDIUM (A) 250ML

Partition coefficient n-octanol/water (Log Pow)	Not available
Bioaccumulative potential	No bioaccumulation data available.

12.4. Mobility in soil

SHUFILL URETHANE SHORE A50 MEDIUM (A) 250ML

Mobility in soil	No available data
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12.5. Results of PBT and vPvB assessment

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Results of PBT assessment	Mixture does not contain substance (s) classified as PBT or vPvB in concentrations above 0,1%.
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12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Other adverse effects : No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Disposal of this packaging should at all times comply with the waste disposal legislation and any regional local authority requirements. Empty containers must be handled with care due to product residue. Do not heat or cut empty containers with electric or gas torch. Product residues are to be considered as hazardous waste. Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information : Avoid discharge of the product as is into the environment.

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SECTION 14: Transport information

In accordance with ADR /

	ADR
14.1. UN number or ID number	Not regulated
14.2. UN proper shipping name	Not regulated
14.3. Transport hazard class(es)	Not regulated
14.4. Packing group	Not regulated
14.5. Environmental hazards	Not regulated
Not classified as dangerous in the meaning of transport regulations	

14.6. Special precautions for user

Special transport precautions : Protect from freezing, Store at 18 °C - 30 °C

Overland transport

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3(b)	SHUFILL URETHANE SHORE A50 MEDIUM (A) 250ML ; 4,4'-METHYLENEDIPHENYL DIISOCYANATE, OLIGOMERS	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10
56.	4,4'-METHYLENEDIPHENYL DIISOCYANATE, OLIGOMERS	Methylenediphenyl diisocyanate (MDI)
74.	SHUFILL URETHANE SHORE A50 MEDIUM (A) 250ML ; 4,4'-METHYLENEDIPHENYL DIISOCYANATE, OLIGOMERS	Diisocyanates, O = C=N-R-N = C=O, with R an aliphatic or aromatic hydrocarbon unit of unspecified length

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

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Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Directive 2012/18/EU (SEVESO III)

Seveso Additional information : Not determined.

15.1.2. National regulations

Germany

Water hazard class (WGK) : WGK: 1, Slightly hazardous to water (Classification according to AwSV, Annex 1)
Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed
SZW-lijst van mutagene stoffen : None of the components are listed
SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : None of the components are listed
SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

Switzerland

Storage class (LK) : LK 6.1 - Toxic materials

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out

SECTION 16: Other information

Indication of changes:

This sheet has been revised completely (changes were not marked).

Indication of changes			
Section	Changed item	Change	Comments
	Revision date	Modified	
	Supersedes version of	Modified	
8.2	Hand protection	Modified	
10.5	Incompatible materials	Modified	

Abbreviations and acronyms

CAS-No.	Chemical Abstract Service number
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
ATE	Acute Toxicity Estimate
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
EC-No.	European Community number
EN	European Standard
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods

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Abbreviations and acronyms	
IOELV	Indicative Occupational Exposure Limit Value
LC50	Median lethal concentration
LD50	Dose leading to death in 50% of a test population (median lethal dose)
NOEC	No-Observed Effect Concentration
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
STP	Sewage treatment plant
SDS	Safety Data Sheet
WGK:	Water Hazard Class
vPvB	Very Persistent and Very Bioaccumulative

Data sources

: Information from our suppliers, such as data from "Registered Substances Database" of the European Chemicals Agency (ECHA) is used to compile the safety data sheet. REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. Classification procedure: . Physical and Chemical Properties: Classification is based on the results of the mixtures tested. Health and Environmental Hazards: The method for classifying mixtures based on the components of the mixture (sum formula).

Training advice

: Minimal training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

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Other information

- : **DISCLAIMER OF LIABILITY** The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable. Reference code. R 3(b): 1. Shall not be used in:
- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
 - tricks and jokes,
 - games for one or more participants, or any article intended to be used as such, even with ornamental aspects,
2. Articles not complying with paragraph 1 shall not be placed on the market.
3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:
- can be used as fuel in decorative oil lamps for supply to the general public, and,
 - present an aspiration hazard and are labelled with R65 or H304,
4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).
5. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:
- (a) lamp oils, labelled with R65 or H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: 'Keep lamps filled with this liquid out of the reach of children'; and, by 1 December 2010, 'Just a sip of lamp oil — or even sucking the wick of lamps — may lead to life-threatening lung damage';
 - (b) grill lighter fluids, labelled with R65 or H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter may lead to life threatening lung damage';
 - (c) lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.
6. No later than 1 June 2014, the Commission shall request the European Chemicals Agency to prepare a dossier, in accordance with Article 69 of the present Regulation with a view to ban, if appropriate, grill lighter fluids and fuel for decorative lamps, labelled R65 or H304, intended for supply to the general public.
7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission. R56: 1. Shall not be placed on the market after 27 December 2010, as a constituent of mixtures in concentrations equal to or greater than 0,1 % by weight of MDI for supply to the general public, unless suppliers shall ensure before the placing on the market that the packaging:
- (a) contains protective gloves which comply with the requirements of Council Directive 89/686/EEC;
 - (b) is marked visibly, legibly and indelibly as follows, and without prejudice to other Community legislation concerning the classification, packaging and labelling of substances and mixtures:
 - "— Persons already sensitised to diisocyanates may develop allergic reactions when using this product.
 - Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.
 - This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used."

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2. By way of derogation, paragraph 1(a) shall not apply to hot melt adhesives. R74: 1. Shall not be used as substances on their own, as a constituent in other substances or in mixtures for industrial and professional use(s) after 24 August 2023, unless: (a) the concentration of diisocyanates individually and in combination is less than 0,1 % by weight, or (b) the employer or self-employed ensures that industrial or professional user(s) have successfully completed training on the safe use of diisocyanates prior to the use of the substance(s) or mixture(s). 2. Shall not be placed on the market as substances on their own, as a constituent in other substances or in mixtures for industrial and professional use(s) after 24 February 2022, unless: (a) the concentration of diisocyanates individually and in combination is less than 0,1 % by weight, or (b) the supplier ensures that the recipient of the substance(s) or mixture(s) is provided with information on the requirements referred to in point (b) of paragraph 1 and the following statement is placed on the packaging, in a manner that is visibly distinct from the rest of the label information: "As from 24 August 2023 adequate training is required before industrial or professional use". 3. For the purpose of this entry "industrial and professional user(s)" means any worker or self-employed worker handling diisocyanates on their own, as a constituent in other substances or in mixtures for industrial and professional use(s) or supervising these tasks. 4. The training referred to in point (b) of paragraph 1 shall include the instructions for the control of dermal and inhalation exposure to diisocyanates at the workplace without prejudice to any national occupational exposure limit value or other appropriate risk management measures at national level. Such training shall be conducted by an expert on occupational safety and health with competence acquired by relevant vocational training. That training shall cover as a minimum: (a) the training elements in point (a) of paragraph 5 for all industrial and professional use(s). (b) the training elements in points (a) and (b) of paragraph 5 for the following uses: — handling open mixtures at ambient temperature (including foam tunnels); — spraying in a ventilated booth; — application by roller; — application by brush; — application by dipping and pouring; — mechanical post treatment (e.g. cutting) of not fully cured articles which are not warm anymore; — cleaning and waste; — any other uses with similar exposure through the dermal and/or inhalation route; (c) the training elements in points (a), (b) and (c) of paragraph 5 for the following uses: — handling incompletely cured articles (e.g. freshly cured, still warm); — foundry applications; — maintenance and repair that needs access to equipment; — open handling of warm or hot formulations (> 45 °C); — spraying in open air, with limited or only natural ventilation (includes large industry working halls) and spraying with high energy (e.g. foams, elastomers); — and any other uses with similar exposure through the dermal and/or inhalation route. 5. Training elements: (a) general training, including on-line training, on: — chemistry of diisocyanates; — toxicity hazards (including acute toxicity); — exposure to diisocyanates; — occupational exposure limit values; — how sensitisation can develop; — odour as indication of hazard; — importance of volatility for risk; — viscosity, temperature, and molecular weight of diisocyanates; — personal hygiene; — personal protective equipment needed, including practical instructions for its correct use and its limitations; — risk of dermal contact and inhalation exposure; — risk in relation to application process used; — skin and inhalation protection scheme; — ventilation; — cleaning, leakages, maintenance; — discarding empty packaging; — protection of bystanders; — identification of critical handling stages; — specific national code systems (if applicable); — behaviour-based safety; — certification or documented proof that training has been successfully completed (b) intermediate level training, including on-line training, on: — additional behaviour-based aspects; — maintenance; — management of change; — evaluation of existing safety instructions; — risk in relation to application process used; — certification or documented proof that training has been successfully completed (c) advanced training, including on-line training, on: — any additional certification needed for the specific uses covered; — spraying outside a spraying booth; — open handling of hot or warm formulations (> 45 °C); — certification or documented proof that training has been successfully completed 6. The training shall comply with the provisions set by the Member State in which the industrial or professional user(s) operate. Member States may implement or continue to apply their own national requirements for the use of the substance(s) or mixture(s), as long as the minimum requirements set out in paragraphs 4 and 5 are met. 7. The supplier referred to in point (b) of paragraph 2 shall ensure that the recipient is provided with training material and courses pursuant to paragraphs 4 and 5 in the official language(s) of the Member State(s) where the substance(s) or mixture(s) are supplied. The training shall take into consideration the specificity of the products supplied, including composition, packaging, and design. 8. The employer or self-employed shall document the successful completion of the training referred to in paragraphs 4 and 5. The training shall be renewed

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at least every five years. 9. Member States shall include in their reports pursuant to Article 117(1) the following information: (a) any established training requirements and other risk management measures related to the industrial and professional uses of diisocyanates foreseen in national law; (b) the number of cases of reported and recognised occupational asthma and occupational respiratory and dermal diseases in relation to diisocyanates; (c) national exposure limits for diisocyanates, if there are any; (d) information about enforcement activities related to this restriction. 10. This restriction shall apply without prejudice to other Union legislation on the protection of safety and health of workers at the workplace.

Full text of H- and EUH-statements	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Carc. 2	Carcinogenicity, Category 2
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Resp. Sens. 1	Respiratory sensitisation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
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 through prolonged or repeated exposure.
EUH204	Contains isocyanates. May produce an allergic reaction.

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.