

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 (B) 250ML
UFI	: Y5K3-AP84-EU1Y-WUA7
Product code	: 200150250

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)

Serious eye damage/eye irritation, Category 2 H319

Full text of H-statements: see section 16

Adverse physicochemical, human health and environmental effects

Additional information on environmental and health hazards can be found in chapter 11 & 12.

2.2. Label elements

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

Hazard pictograms (CLP)



GHS07

Signal word (CLP)	: Warning
Hazard statements (CLP)	: H319 - Causes serious eye irritation.
Precautionary statements (CLP)	: P264 - Wash hands, forearms and face thoroughly after handling. P280 - Wear eye protection, face protection. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 - If eye irritation persists: Get medical advice/attention.

SHUFILL URETHANE SHORE A50 MEDIUM (B) 250ML

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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.

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

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1,1', 1'', 1'''-ETHYLENEDINITRILOTETRAPROPAN-2-OL	CAS-No.: 102-60-3 EC-No.: 203-041-4 REACH-no: 01-2119552434-41	20 – 50	Eye Irrit. 2, H319
GLYCERYL POLY(OXYPROPYLENE)TRIAMINE	EC-No.: 937-338-1	1 – 3	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412

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

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. If experiencing respiratory symptoms: Call a physician immediately.

First-aid measures after skin contact : Remove contaminated clothing and shoes. Rinse immediately with plenty of water. Wash contaminated clothing before reuse. In all cases of doubt, or when symptoms persist, seek medical attention.

First-aid measures after eye contact : Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Get immediate medical advice/attention. Give nothing to drink (not induce vomiting.) If the victim is unconscious or very drowsy. Unless the doctor / doctor advises this. Do not induce vomiting without medical advice.

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

Symptoms/effects : No characteristic features and effects known.

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 : water, carbon dioxide (CO₂), powder and foam.
Unsuitable extinguishing media : No supplementary information available.

SHUFILL URETHANE SHORE A50 MEDIUM (B) 250ML

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Hazardous combustion products. Avoid inhalation of vapours.

5.3. Advice for firefighters

Precautionary measures fire : Cool containers / tanks with spray water if possible.
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. Approved supplied-air respirator when exposed to vapours from heated material.
Other information : Avoid decomposition of the product and the development of substances that are potentially hazardous to health.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Stop leak if safe to do so.

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment. Concerning personal protective equipment to use, see section 8.
Emergency procedures : Keep unprotected people away. Do not breathe vapours. Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Wear recommended personal protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Cover the spill with clay, sand, sawdust, vermiculite, fullers earth, or any suitable adsorbent material. Contain spilled material and keep further waste under control if possible.
Methods for cleaning up : Shovel into suitable and closed container for disposal. 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 : Ensure adequate air ventilation. For disposal of residues refer to section 13: "Disposal considerations".

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

Additional hazards when processed : Provide good extraction / ventilation of the workplace.
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. Only handle the product after reading all points of the safety data sheet.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : do not store in unlabelled containers.
Incompatible materials : For further information, refer to section 10: "Stability and Reactivity".

SHUFILL URETHANE SHORE A50 MEDIUM (B) 250ML

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Storage area : Storage class (LGK, TRGS 510) 10 (Germany).

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

No additional information available

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

1,1', 1'', 1''' - ETHYLENEDINITRILOTETRAPROPAN-2-OL (102-60-3)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	4.2 mg/kg dwt
Long-term - systemic effects, inhalation	29.4 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	2.5 mg/kg dwt
Long-term - systemic effects, inhalation	8.7 mg/m ³
Long-term - systemic effects, dermal	2.5 mg/kg dwt
PNEC (Water)	
PNEC aqua (freshwater)	0.085 mg/l
PNEC aqua (marine water)	0.0085 mg/l
PNEC aqua (intermittent, freshwater)	1.51 mg/l Discontinuous emission
PNEC (Sediment)	
PNEC sediment (freshwater)	0,193 mg/kg
PNEC sediment (marine water)	0,0193 mg/kg
PNEC (Soil)	
PNEC soil	0,0183 mg/kg in the terrestrial environment
PNEC (STP)	
PNEC sewage treatment plant	70 mg/l

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. 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. The workplace should be equipped with an emergency shower and eye-rinsing facility.

SHUFILL URETHANE SHORE A50 MEDIUM (B) 250ML

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

8.2.2. Personal protection equipment

Personal protective equipment:

Insufficient ventilation: wear respiratory protection.

8.2.2.1. Eye and face protection

Eye protection:

Safety glasses with side guards should be worn to prevent injury from airborne particles and/or other eye contact with this product. Splash goggles. Chemical goggles. EN 166

8.2.2.2. Skin protection

Skin and body protection:

Long sleeved protective clothing. Safety foot-wear. cat. II. I. Wash clothing before re-using. Wash skin with soap and water

Hand protection:

Wear suitable gloves. Chemical resistant gloves (according to European standard EN 374 or equivalent). Check leak tightness / impermeability prior to use. Consult supplier for specific recommendations. 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. Time of penetration is to be checked with the glove producer. Since the product consists of several substances, the durability of the glove material cannot be estimated and needs to be tested before use. Nitrile-rubber protective gloves. Layer thickness : 0,5 mm. Breakthrough time : 240 min. . Gloves should be replaced when worn out. This depends on the duration and method of use

8.2.2.3. Respiratory protection

Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection. Wear a respirator conforming to EN140 with Type A/P2 filter or better. In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. 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

8.2.3. Environmental exposure controls

Environmental exposure controls:

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	: Blue.
Odour	: Not available.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: > 200 °C
Flammability	: Not available
Explosive limits	: Not available
Lower explosive limit (LEL)	: Not available
Upper explosive limit (UEL)	: Not available
Flash point	: 182 °C
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: Not available
Viscosity, dynamic	: 2500 mPa·s
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50 °C	: 0,1 Pa
Density	: Not available

SHUFILL URETHANE SHORE A50 MEDIUM (B) 250ML

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Relative density	: 1,0 g/cm ³
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

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

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

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

None under recommended storage and handling conditions (see section 7). Normal precautions for handling chemicals should be observed.

10.5. Incompatible materials

None under recommended storage and handling conditions (see section 7).

10.6. Hazardous decomposition products

No data 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 experimental information related to the toxicological properties of the product itself is not available)
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	: ATE (inhalation, oral & dermal) mixture: Not classified (no relevant ingredient)

GLYCERYL POLY(OXYPROPYLENE)TRIAMINE

LD50 oral	2690 mg/kg
LD50 dermal	12500 mg/kg

Skin corrosion/irritation : Based on available data, the classification criteria are not met
pH: Not available

SHUFILL URETHANE SHORE A50 MEDIUM (B) 250ML

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Serious eye damage/irritation	: Causes serious eye irritation. pH: Not available
Respiratory or skin sensitisation	: Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Based on available data, the classification criteria are not met
Carcinogenicity	: Based on available data, the classification criteria are not met
Reproductive toxicity	: Based on available data, the classification criteria are not met
STOT-single exposure	: Based on available data, the classification criteria are not met
STOT-repeated exposure	: Based on available data, the classification criteria are not met
Aspiration hazard	: Based on available data, the classification criteria are not met

11.2. Information on other hazards

No 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.

GLYCERYL POLY(OXYPROPYLENE)TRIAMINE

LC50 - Fish [1]	68 mg/l
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12.2. Persistence and degradability

SHUFILL URETHANE SHORE A50 MEDIUM (B) 250ML

Persistence and degradability	No additional information available.
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12.3. Bioaccumulative potential

SHUFILL URETHANE SHORE A50 MEDIUM (B) 250ML

Bioaccumulative potential	No additional information available.
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12.4. Mobility in soil

SHUFILL URETHANE SHORE A50 MEDIUM (B) 250ML

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

SHUFILL URETHANE SHORE A50 MEDIUM (B) 250ML

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

SHUFILL URETHANE SHORE A50 MEDIUM (B) 250ML

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 13: Disposal considerations

13.1. Waste treatment methods

- Waste treatment methods : Do not re-use empty containers without proper cleaning or reconditioning. Product residues are to be considered as hazardous waste. Disposal of this packaging should at all times comply with the waste disposal legislation and any regional local authority requirements.
- Product/Packaging disposal recommendations : Packaging that is not properly emptied must be disposed of as the unused product. Non-contaminated packages may be recycled. If recycling is not possible, eliminate in accordance with local valid waste disposal regulations.
- Additional information : Avoid discharge of the product as is into the environment.

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

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 (B) 250ML ; 1,1', 1'', 1'''-ETHYLENEDINITRILOTE TRAPROPAN-2-OL ; GLYCERYL POLY(OXYPROPYLENE) TRIAMINE	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

SHUFILL URETHANE SHORE A50 MEDIUM (B) 250ML

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

EU restriction list (REACH Annex XVII)

Reference code	Applicable on	Entry title or description
3(c)	GLYCERYL POLY(OXYPROPYLENE) TRIAMINE	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 class 4.1

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

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 : None

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

SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

Switzerland

Storage class (LK) : LK 10/12 - Liquids

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	
15.1	Water hazard class (WGK)	Modified	

Abbreviations and acronyms

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS-No.	Chemical Abstract Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DNEL	Derived-No Effect Level
EN	European Standard
WGK:	Water Hazard Class
SDS	Safety Data Sheet

SHUFILL URETHANE SHORE A50 MEDIUM (B) 250ML

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Abbreviations and acronyms	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Dose leading to death in 50% of a test population (median lethal dose)
OEL	Occupational Exposure Limit
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
VOC	Volatile Organic Compounds
PNEC	Predicted No-Effect Concentration
PBT	Persistent Bioaccumulative Toxic
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). No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation.
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.

Full text of H- and EUH-statements	
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

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.