5IN1 PU GLUE (A)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
Issue date: 7/12/2021 Revision date: 3/8/2021 Supersedes version of: 12/4/2017 Version: 5.0

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

1.1. Product identifier

Product form	:	Mixture
Trade name	:	5IN1 PU GLUE (A)
UFI	:	35YC-4YDJ-U10S-6T8R
Product code	:	687118
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

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Maumo international B.V.
P.O. Box 441
2990 AK Barendrecht - Nederland
T +31 (0)180 699234
info@maumo.nl

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

No additional information available

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.

2.3. Other hazards

Other hazards which do not result in classification : Mixture does not contain substance (s) classified as PBT or vPvB in concentrations above 0,1%.

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	CAS-No.: 64852-22-8	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 Call a physician immediately.

First-aid measures after skin contact : Take off contaminated clothing. Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

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

First-aid measures after ingestion : Get immediate medical advice/attention. Do not give an unconscious person anything to drink. Do not induce vomiting without medical advice. Call a poison center or a doctor if you feel unwell.

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 spray. dry powder. foam. Carbon dioxide.

Unsuitable extinguishing media : No supplementary information available.

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

Precautionary measures fire : On heating, there is a risk of bursting due to internal pressure build-up. Cool down the containers exposed to heat with a water spray.

Protection during firefighting : Wear fire/flame resistant/retardant clothing. Self-contained breathing apparatus. Standard EN 469 - Protective clothing for firefighters. Standard - EN 659: Protective gloves for firefighters. Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask. Boots.

Other information : Move containers from fire area if it can be done without personal risk.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Complete protective clothing.

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

Measures in case of dust release : Try to stop release if without risk.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

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

For containment : Suck up the spilled/leaked product in a suitable container. Refer to chapter 10. Absorb remaining liquid with sand or inert absorbent and remove to safe place. Ensure adequate air ventilation. For disposal of contaminated materials refer to section 13 : "Disposal considerations".

Methods for cleaning up : Take up liquid spill into absorbent material. Use suitable disposal containers.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13. Wear personal protective clothing (see chapter 8).

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do not eat, drink or smoke when using this product. Discharge into the environment must be avoided. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : do not store in unlabelled containers. Store, if possible, in a cool, well ventilated place away from incompatible materials. For further information, refer to section 10 : "Stability and Reactivity".

Storage area : Conditions for safe storage, including any incompatibilities. Refer to Section 10 on Incompatible Materials.

Special rules on packaging : do not store in unlabelled containers.

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/m³
DNEL/DMEL (General population)	
Long-term - systemic effects,oral	2.5 mg/kg dwt
Long-term - systemic effects, inhalation	8.7 mg/m³
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

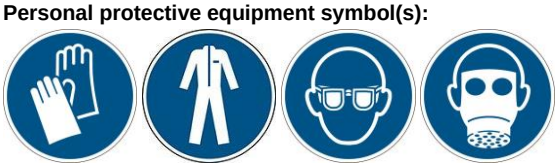
8.2.1. Appropriate engineering controls

Appropriate engineering controls:
Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the protective equipment. Considering that appropriate engineering controls should always be prioritized over personal protective equipment, good ventilation should be provided in the workplace, using effective local exhaust ventilation. The workplace should be equipped with an emergency shower and eye-rinsing facility. Sink for eyes and face. 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:
Gloves. Protective clothing. Safety glasses. Dust/aerosol mask with filter type P1, P2, P3.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:
Use eye protection according to EN 166, designed to protect against liquid splashes.

8.2.2.2. Skin protection

Skin and body protection:
Long sleeved protective clothing. 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. EN ISO 20344. Remove contaminated clothing and shoes. Wash with soap and water. Safety foot-wear. Category 1

Hand protection:
Nitrile-rubber protective gloves. Chemical resistant gloves (according to European standard EN 374 or equivalent). Category III. 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. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. Choose glove material taking into account the penetration times, the permeation degrees and the degradation. Refer to the recommendations of the supplier. Since the product consists of several substances, the durability of the glove material cannot be estimated and needs to be tested before use. Gloves should be replaced when worn out. This depends on the duration and method of use. For continuous contact, we recommend gloves with a breakthrough time of at least 240 minutes, with a breakthrough time of more than 480 minutes being preferred. We recommend the same for short-term work or splash protection. We are aware that suitable gloves that provide this level of protection may not be available. In that case, a shorter breakthrough time may be acceptable, as long as the procedures for appropriate maintenance and timely replacement are followed. The thickness of the glove is not a good measure of the glove's resistance to a chemical, as it depends on the exact composition of the material the gloves are made of. Layer thickness : 0,5 mm

8.2.2.3. Respiratory protection

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). Air-fed respiratory protective equipment should be worn when this product is sprayed if the exposure of the sprayer or other people nearby cannot be controlled to below the occupational exposure limit

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:
Avoid release to the environment. Emissions from production processes, including emissions from ventilation equipment, must be controlled for compliance with environmental protection legislation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Colour	:	Black.
Odour	:	Not available
Odour threshold	:	Not available
Melting point	:	No data available
Freezing point	:	Not available
Boiling point	:	> 200 °C
Flammability	:	No data 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	:	3000 mm²/s
Viscosity, dynamic	:	3000 mPa·s
Solubility	:	Not available
Partition coefficient n-octanol/water (Log Kow)	:	Not available
Vapour pressure	:	0.1 Pa
Vapour pressure at 50 °C	:	Not available
Density	:	1 g/cm³
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

VOC content : 0 European Directive 2010/75 / EU

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 normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

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

10.5. Incompatible materials

No additional information available.

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
Acute toxicity (dermal)	:	Not classified
Acute toxicity (inhalation)	:	Not classified

GLYCERYL POLY(OXYPROPYLENE)TRIAMINE (64852-22-8)	
LD50 oral	2690 mg/kg
LD50 dermal	12500 mg/kg

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Causes serious eye irritation.
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

2K FAST FIX BLACK 60 SEC (A)	
Viscosity, kinematic	3000 mm²/s

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified
Hazardous to the aquatic environment, long-term (chronic) : Not classified
Additional information : The experimental information related to the eco-toxicological properties of the product itself is not available. Do not allow product to spread into the environment. Do not discharge into groundwater, into surface water or into drains. In case of contamination of soil or water bodies notify the competent authorities.

GLYCERYL POLY(OXYPROPYLENE)TRIAMINE (64852-22-8)	
LC50 - Fish [1]	68 mg/l

12.2. Persistence and degradability

2K FAST FIX BLACK 60 SEC (A)	
Persistence and degradability	No information available.

12.3. Bioaccumulative potential

2K FAST FIX BLACK 60 SEC (A)	
Bioaccumulative potential	No data available concerning bioaccumulation.

12.4. Mobility in soil

2K FAST FIX BLACK 60 SEC (A)	
Mobility in soil	No information available

12.5. Results of PBT and vPvB assessment

2K FAST FIX BLACK 60 SEC (A)	
Results of PBT assessment	Mixture does not contain substance (s) classified as PBT or vPvB in concentrations above 0,1%.

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Other adverse effects : No information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Recycle the material as far as possible. Product residues are to be considered as hazardous waste. Hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Product/Packaging disposal recommendations : When not empty dispose of this container at hazardous or special waste collection point.

Additional information : The waste hazard class, which this product contains in part, must be assessed according to the applicable legislation.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / RID /

ADR	IMDG	IATA	RID
14.1. UN number or ID number			
No data available	No data available	No data available	No data available
14.2. UN proper shipping name			
No data available	No data available	No data available	No data available
14.3. Transport hazard class(es)			
No data available	No data available	No data available	No data available
14.4. Packing group			
No data available	No data available	No data available	No data available
14.5. Environmental hazards			
No data available	No data available	No data available	No data available
No supplementary information available			

14.6. Special precautions for user

Special transport precautions : Not classified as dangerous in the meaning of transport regulations

Overland transport
No data available

Transport by sea
No data available

Air transport
No data available

Rail transport
No data available

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**
20.	dibutylbis(pentane-2,4-dionato-O,O')tin	Organostannic compounds
3(b)	2K FAST FIX BLACK 60 SEC (A) ; GLYCERYL POLY(OXYPROPYLENE) TRIAMINE ; 1,1 ', 1' ', 1' '-ETHYLENEDINITRILOTETRAPROPAN-2-OL	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
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 ≥ 0,1 % / SCL
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
VOC content : 0 European Directive 2010/75 / EU

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)
Storage class (LGK, TRGS 510) : LGK 10 - Combustible liquids

Netherlands
SZW-lijst van kankerverwekkende stoffen : None of the components are listed
SZW-lijst van mutagene stoffen : None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : dibutylbis(pentane-2,4- dionato-O,O')tin is listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : dibutylbis(pentane-2,4- dionato-O,O')tin is listed

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes			
Section	**Changed item**	**Change**	**Comments**
	Revision date	Modified	
2.1	Adverse physicochemical, human health and environmental effects	Removed	
3	Composition/information on ingredients	Modified	

Indication of changes			
Section	**Changed item**	**Change**	**Comments**
4.1	First-aid measures after skin contact	Modified	
4.2	Symptoms/effects	Modified	
4.2	Symptoms/effects after eye contact	Removed	
4.2	Symptoms/effects after skin contact	Removed	
4.3	Other medical advice or treatment	Modified	
5.2	Hazardous decomposition products in case of fire	Modified	
5.3	Other information	Added	
5.3	Precautionary measures fire	Modified	
5.3	Protection during firefighting	Modified	
6.3	For containment	Modified	
6.4	Reference to other sections (8, 13)	Modified	
7.1	Hygiene measures	Removed	
7.1	Precautions for safe handling	Modified	
7.2	Storage conditions	Modified	
8.2	Environmental exposure controls	Modified	
8.2	Respiratory protection	Modified	
8.2	Hand protection	Modified	
8.2	Eye protection	Modified	
8.2	Skin and body protection	Modified	
8.2	Personal protective equipment	Modified	
8.2	Appropriate engineering controls	Modified	
9.1	Density	Modified	
9.1	Viscosity, dynamic	Modified	
9.2	VOC content	Added	
10.5	Incompatible materials	Modified	
10.6	Hazardous decomposition products	Modified	
13.1	Additional information	Added	
14.6	Special transport precautions	Added	
15.1	VOC content	Added	
15.1	Storage class (LGK, TRGS 510)	Added	

Abbreviations and acronyms	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS-No.	Chemical Abstract Service number
EC50	Median effective concentration
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DNEL	Derived-No Effect Level

Abbreviations and acronyms	
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)
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
TLM	Median Tolerance Limit
SDS	Safety Data Sheet
VOC	Volatile Organic Compounds
WGK:	Water Hazard Class
vPvB	Very Persistent and Very Bioaccumulative
EC-No.	European Community number

Data sources : Classification procedure: . Physico-chemical hazards: The classification of the product is derived from the criteria of the CLP Regulation, Annex I, Part 2. The methods of assessment of the chemical and physical properties are presented in Part 9. Health hazards: The classification of the product is based on the calculation methods of Annex I of CLP, Part 3, unless otherwise specified in Part 11. Environmental hazards: The classification of the product is based on the calculation methods of Annex I of CLP, Part 4, unless otherwise specified in Part 12.

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.