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

· 1.1 Product identifier

· Trade name: PU 950-25 Glashärter

· 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.

· Application of the substance / the preparation Hardening agent/ Curing agent

 \cdot 1.3 Details of the supplier of the safety data sheet • Manufacturer/Supplier: MIPA AG Am Oberen Moos 1 D-84051 Essenbach Tel.: +49(0)8703-922-0 Fax.: +49(0)8703-922-100 e-mail: sdb-registratur@mipa-paints.com www.mipa-paints.com

· Further information obtainable from: Laboratory • 1.4 Emergency telephone number: +49(0)700 24112112 (MIP)

2 Hazards identification

*

· 2.1 Classification of the substance or mixture

Classification	according to	Regulation	(EC) No	1272/2008

GHS0)2 flame	
Flam. Liq. 3	H226	Flammable liquid and vapour.
GHS0	05 corrosion	
Eye Dam. 1	H318	Causes serious eye damage.
GHS0)7	
Skin Sens. 1	H317	May cause an allergic skin reaction.
STOT SE 3	H335-H336	May cause respiratory irritation. May cause drowsiness or dizziness.
Aquatic Chronic	e 3 H412	Harmful to aquatic life with long lasting effects.
• Classification a	0	ective 67/548/EEC or Directive 1999/45/EC
R20:	Harmful by in	halation.
Xi; Irritani	t	
R37:	Irritating to re	espiratory system.
Xi; Sensitis	sing	
<i>R43:</i>	May cause set	nsitisation by skin contact.
R10-52/53-66:		Harmful to aquatic organisms, may cause long-term adverse effects in the conment. Repeated exposure may cause skin dryness or cracking. (Contd. on page 2) GB

Safety data sheet

according to 1907/2006/EC, Article 31

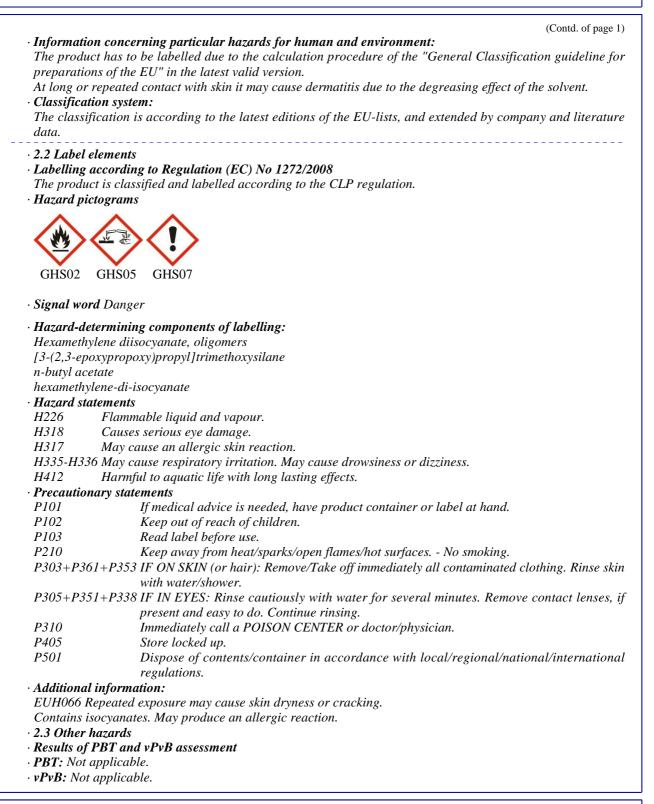
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3 Composition/information on ingredients

· 3.2 Chemical characterization: Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

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Dangerous components:	(Cor	ntd. of page 2)
CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29	n-butyl acetate R10-66-67	25-50%
CAS: 28182-81-2 NLP: 500-060-2 Reg.nr.: 01-2119488934-20	Hexamethylene diisocyanate, oligomers Xn R20; Xi R37; Xi R43 Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335	25-50%
CAS: 64742-95-6 EINECS: 265-199-0 Reg.nr.: 01-2119455851-35	Solvent naphtha (petroleum), light arom. Xn R65; Xi R37; ₩ N R51/53 R10-66-67 Flam. Liq. 3, H226; & Asp. Tox. 1, H304; Aquatic Chronic 2, H411; ↑ STOT SE 3, H335-H336	3-<10%
CAS: 108-65-6 EINECS: 203-603-9 Reg.nr.: 01-2119475791-29	2-methoxy-1-methylethyl acetate R10 Image: R10	3-<10%
CAS: 2530-83-8 EINECS: 219-784-2 Reg.nr.: 01-2119513212-58-0002	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane X i R41 ♦ Eye Dam. 1, H318	3-<5%
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119486136-34	xylene Xn R20/21; Xi R38 R10 Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	3-≤5%

• Additional information: For the wording of the listed risk phrases refer to section 16.

4 First aid measures

· 4.1 Description of first aid measures

· General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

In case of irregular breathing or respiratory arrest provide artificial respiration.

· After inhalation:

Supply fresh air and to be sure call for a doctor.

- In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

5 Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · 5.2 Special hazards arising from the substance or mixture
- In case of fire, the following can be released:
- Nitrogen oxides (NOx)

Carbon monoxide (CO)

Hydrogen cyanide (HCN)

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- · 5.3 Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

· 6.1 Personal precautions, protective equip	ment and emergency procedures
Wear protective equipment. Keep unprotect	ted persons away.
· 6.2 Environmental precautions:	
Do not allow product to reach sewage syste	em or any water course.
Inform respective authorities in case of see	page into water course or sewage system.
Do not allow to enter sewers/ surface or gr	
· 6.3 Methods and material for containment	t and cleaning up:
Absorb with liquid-binding material (sand,	diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste ac	ccording to item 13.
Ensure adequate ventilation.	
Do not flush with water or aqueous cleansi	ng agents
Contain and collect spillages with non-c	ombustible absorbent materials (e.g. sand, earth, diatomaceous
earth) and place in a suitable container.	
Decontaminate immediately with suitable n	nixture (flammable):
- as such usable (inflammatory!):	
water	45 Vol.%
ethanol or isopropanol	50 Vol.%
ammonia solution (Density= 0.88)	5 Vol.%
- alternatively (non-flammable):	
sodium carbonate	5 Vol.%
water	95 Vol.%

Add the same decontaminant to any residues and allow to stand for several days in an non-sealed container until no further reaction occurs. Once this stage is reached, close the container and dispose of in accordance with the waste regulations (see Section 13).

· 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

· 7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. Persons with a history of asthma, allergies or chronic or recurrent respiratory diseases should only be employed in processes in which this product is used under appropriate medical supervision. · Information about fire - and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. · 7.2 Conditions for safe storage, including any incompatibilities · Storage: • Requirements to be met by storerooms and receptacles: No special requirements. · Information about storage in one common storage facility: Do not store together with reducing agents, heavy-metal compounds, acids and alkalis. Store away from foodstuffs. • Further information about storage conditions: Keep container tightly sealed. Store separately from oxidising agents, strongly alkaline and strongly acidic materials, amines, alcohol and water. (Contd. on page 5)

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· Storage class: 3

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• 7.3 Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

· 8.1 Control parameters

0	lients with limit values that require monitoring at the workplace:
	6-4 n-butyl acetate
	Short-term value: 966 mg/m ³ , 200 ppm
	Long-term value: 724 mg/m³, 150 ppm
28182	-81-2 Hexamethylene diisocyanate, oligomers
EBW	Short-term value: 0.5 mg/m ³
	exposition evaluation valu TRGS 430 (EBW)
108-6	5-6 2-methoxy-1-methylethyl acetate
WEL	Short-term value: 548 mg/m³, 100 ppm
	Long-term value: 274 mg/m³, 50 ppm
	Sk
1330-	20-7 xylene
WEL	Short-term value: 441 mg/m³, 100 ppm
	Long-term value: 220 mg/m ³ , 50 ppm
	Sk; BMGV
Ingree	lients with biological limit values:
1330-	20-7 xylene
BMG	/ 650 mmol/mol creatinine
	Medium: urine
	Sampling time: post shift
	Parameter: methyl hippuric acid

· 8.2 Exposure controls

· Personal protective equipment:

All personal protective equipment, including respiratory protective equipment, used to control exposure to hazardous substances must be selected to meet the requirements of the COSHH Regulations.

· General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols.

· Respiratory protection:



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.

· Protection of hands:

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.



Protective gloves

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according to 1907/2006/EC, Article 31 Version number 15



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The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

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The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

• 9.1 Information on basic physical and chemical properties

• General Information

air/vapou



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· Partition coefficient (n-octanol/wo	ater): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic at 20 °C:	13 s (DIN 53211/4)	
· Solvent content:		
Organic solvents:	61.0 %	
VOC (EC)	593.2 g/l	
Solids content (weight-%):	34.5 %	
9.2 Other information	No further relevant information available.	

10 Stability and reactivity

- · 10.1 Reactivity
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products:

Possible in traces. Nitrogen oxides Hydrogen chloride (HCl) Hydrogen cyanide (prussic acid) Carbon monoxide Nitrogen oxides (NOx)

11 Toxicological information

· 11.1 Information on toxicological effects

· Acute toxicity:

· LD/LC50 values relevant for classification:

64742-95-6 Solvent naphtha (petroleum), light arom		
Oral	LD50	>2000 mg/kg (rat)
	LD50	>2000 mg/kg (rat) >2000 mg/kg (rab)
Inhalative	LC50/4 h	>10.2 mg/l (rat)

• Primary irritant effect:

• on the skin: No irritant effect.

• on the eye: No irritating effect.

· Sensitization: Sensitization possible through skin contact.

· Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Harmful

Irritant

12 Ecological information

· 12.1 Toxicity

• Aquatic toxicity: No further relevant information available.

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· 12.2 Persistence and degradability No further relevant information available.

- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Harmful to fish
- · Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) : hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

Harmful to aquatic organisms

· 12.5 Results of PBT and vPvB assessment

- · **PBT:** Not applicable.
- · vPvB: Not applicable.

· 12.6 Other adverse effects No further relevant information available.

13 Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue

08 01 11* waste paint and varnish containing organic solvents or other dangerous substances

· Uncleaned packaging:

• Recommendation: Disposal must be made according to official regulations.

· 14.1 UN-Number · ADR, IMDG, IATA	UN1263
- 14.2 UN proper shipping name - ADR	1263 PAINT RELATED MATERIAL, special provisio 640E
· IMDG, IATA	PAINT RELATED MATERIAL
14.3 Transport hazard class(es)	
ADR	
Class	3 (F1) Flammable liquids.
Label	3
· IMDG, IATA	
· Class	3 Flammable liquids.



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· 14.4 Packing group · ADR, IMDG, IATA	111
· 14.5 Environmental hazards:	
· Marine pollutant:	No
· 14.6 Special precautions for user	Warning: Flammable liquids.
· Danger code (Kemler):	30
· EMS Number:	<i>F-E</i> , <u><i>S-E</i></u>
· 14.7 Transport in bulk according to Anne.	x II of
MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
· Transport category	3
· Tunnel restriction code	D/E
· UN "Model Regulation":	UN1263, PAINT RELATED MATERIAL, special provision 640E, 3, III
	640E, 3, 111

15 Regulatory information

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

· National regulations:

Class Share in %

50-100 NK

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

- H226 Flammable liquid and vapour.
- 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.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- May cause damage to organs through prolonged or repeated exposure. H373
- H411 Toxic to aquatic life with long lasting effects.
- R10 Flammable.
- R20 Harmful by inhalation.
- R20/21 Harmful by inhalation and in contact with skin.
- *R37* Irritating to respiratory system.
- R38 Irritating to skin.
- R41 Risk of serious damage to eyes.
- R43 May cause sensitisation by skin contact.

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(Contd. of page 9) R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful: may cause lung damage if swallowed. R65 R66 Repeated exposure may cause skin dryness or cracking. R67 Vapours may cause drowsiness and dizziness. · Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organization ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent • * Data compared to the previous version altered.