Professional Coating System

Printing date 16.07.2013

Version number 94

Revision: 16.07.2013

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

· 1.1 Product identifier

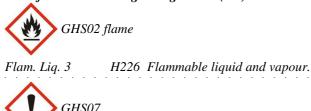
- · Trade name: PUR-Plus-Härter A 60
- 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- · Application of the substance / the preparation Hardening agent/ Curing agent

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



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Skin Sens. 1	H317	May cause an a	allergic	skin reaction.
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STOT SE 3H335 May cause respiratory irritation.Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

R20: Harmful by inhalation.

R37: Irritating to respiratory system.

R43: May cause sensitisation by skin contact.

R10-52/53: Flammable. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

(Contd. on page 2)

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Safety data sheet according to 1907/2006/EC, Article 31



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(Contd. of page 1)

Trade name: PUR-Plus-Härter A 60

Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation. Hacard pictograms Image: Strength of the constraint of the CLP regulation. Hacard pictograms Image: Strength of the constraint of the CLP regulation. Hacard pictograms Image: Strength of the constraint of the cons	Hazard pictograms Vision Vision GHS02 GHS07 Signal word Warning Hazard-determining components of labelling: Hexamethylene diisocyanate, oligomers 2-butoxyethyl acetate hexamethylene-diisocyanate Hazard statements H226 Flammable liquid and vapour. H332 Harmful if inhaled. H317 May cause an allergic skin reaction. H412 Harmful to aquatic life with long lasting effects. Precautionary statements P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Read label before use. P210 Keep away from heat/sparks/open flames/hot surfaces No smoking. P241 Use explosion-proof electrical/ventilating/lighting/equipment. P303 Read label before use. P210 Keep away from heat/sparks/open flames/hot surfaces No smoking. P241 Use explosion-proof electrical/ventilating/lighting/equipment. P303 P301+P3051+P3051 FON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P321 Specific treatament (see on this label). P405	according to Regulation (EC) No 1272/2008 he product is classified and labelled according to the CLP regulation. azard pictograms image: specific constraints
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• Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:		
CAS: 28182-81-2 Hexamethylene diisoc	zyanate, oligomers	50-100%
NLP: 500-060-2 🔀 Xn R20; 🗙 Xi R3	7; 🗙 Xi R43	
Reg.nr.: 01-2119488934-20 🚺 Acute Tox. 4, H33	2; Skin Sens. 1, H317; STOT SE 3, H335	
•	(Co	ntd on page 3)

(Contd. on page 3) GB



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Version number 94

Trade name: PUR-Plus-Härter A 60

		ontd. of page 2
	2-butoxyethyl acetate	<i>10-≤20%</i>
EINECS: 203-933-3	Xn R20/21/22	
Reg.nr.: 01-2119475112-47	(1) Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	
CAS: 123-86-4	n-butyl acetate	<i>3-≤</i> 5%
EINECS: 204-658-1	R10-66-67	
Reg.nr.: 01-2119485493-29	🚸 Flam. Liq. 3, H226; ᡧ STOT SE 3, H336	
CAS: 64742-95-6	Solvent naphtha (petroleum), light arom.	3- <u><</u> 5%
EINECS: 265-199-0	🗙 Xn R65; 🗙 Xi R37; 🏪 N R51/53	
Reg.nr.: 01-2119455851-35	R10-66-67	
	♦ Flam. Liq. 3, H226; ♦ Asp. Tox. 1, H304; ♦ Aquatic Chronic 2, H411; ♦ STOT SE 3, H335-H336	
CAS: 822-06-0	hexamethylene-di-isocyanate	0.1-<0.3%
EINECS: 212-485-8	😡 T R23; 🗙 Xn R42/43; 🗙 Xi R36/37/38	
	Acute Tox. 2, H330; 🚯 Resp. Sens. 1, H334; 🚯 Acute Tox.	
	4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1,	
	H317; STOT SE 3, H335	

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)

· 5.3 Advice for firefighters

· Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.

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Trade name: PUR-Plus-Härter A 60

Trade name: PUR-Plus-Härter A 60		
		(Contd. of page 3)
• 6.2 Environmental precautions:		
Do not allow product to reach sewage s	ystem or any water course.	
Inform respective authorities in case of	seepage into water course or sewage system.	
Do not allow to enter sewers/ surface or	ground water.	
6.3 Methods and material for containm	ent and cleaning up:	
	nd, diatomite, acid binders, universal binders, sawd	ust).
Dispose contaminated material as waste		
Ensure adequate ventilation.		
Do not flush with water or aqueous clea	unsing agents	
	n-combustible absorbent materials (e.g. sand, ea	rth, diatomaceous
earth) and place in a suitable container.		
Decontaminate immediately with suitable		
- as such usable (inflammatory!):	v /	
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 res	sidues and allow to stand for several days in an no	n-sealed container
	his stage is reached, close the container and dispos	
with the waste regulations (see Section)		· · · · · · · · · · · · · · · · · · ·
· 6.4 Reference to other sections	,	
See Section 7 for information on safe ha	undling.	
See Section 8 for information on person		
See Section 13 for disposal information.		
5 1 5		
7 Handling and storage		
7 Handling and storage		
· 7.1 Precautions for safe handling		
• 7.1 Precautions for safe handling Ensure good ventilation/exhaustion at th	he workplace.	
• 7.1 Precautions for safe handling Ensure good ventilation/exhaustion at th Prevent formation of aerosols.	-	
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· 8.1 Control parameters

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··- ·······
· Ingredients with limit values that require monitoring at the workplace:
28182-81-2 Hexamethylene diisocyanate, oligomers
EBW Short-term value: 0.5 mg/m ³
exposition evaluation valu TRGS 430 (EBW)
112-07-2 2-butoxyethyl acetate
WEL Short-term value: 332 mg/m ³ , 50 ppm
Long-term value: 133 mg/m ³ , 20 ppm
Sk
123-86-4 n-butyl acetate
WEL Short-term value: 966 mg/m ³ , 200 ppm
Long-term value: 724 mg/m ³ , 150 ppm
822-06-0 hexamethylene-di-isocyanate
WEL Short-term value: 0.07 mg/m ³
Long-term value: 0.02 mg/m^3
Sen; as -NCO
• Additional information: The lists valid during the making were used as basis.
 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. Filter A/P2 Protection of hands:
Protective gloves
• Material of gloves Recommended thickness of the material: ≥ 0.4 mm Nitrile rubber, NBR
• Penetration time of glove material Value for the permeation: Level ≤ 2 • Eye protection:
Tightly sealed goggles

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9.1 Information on basic physical a	and chamical properties
General Information	ina chemicai properties
Appearance:	
Form:	Fluid
Colour:	According to product specification
Odour:	Characteristic
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	124 °C
Flash point:	35 °C (DIN 53213)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	280 °C (DIN 51794)
Decomposition temperature:	Not determined.
Self-igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapou mixtures are possible.
Explosion limits:	
Lower:	1.7 Vol %
Upper:	8.4 Vol %
Vapour pressure at 20 °C:	0.4 hPa
Density at 20 °C:	1.095 g/cm ³ (DIN 53217)
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/wa	ter): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic at 20 •C:	33 s (DIN 53211/4)
Solvent content:	
Organic solvents:	23.5 %
VOC (EC)	257.6 g/l
Solids content (weight-%):	76.5 %
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.

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· 10.5 Incompatible materials: No further relevant information available.

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• 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:

112-07-2 2-butoxyethyl acetate

Oral LD50 1880 mg/kg (rat)

Dermal LD50 1480 mg/kg (rabbit)

64742-95-6 Solvent naphtha (petroleum), light arom.

 Oral
 LD50
 >2000 mg/kg (rat)

 Dermal
 LD50
 >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.
- \cdot Sensitization: Sensitization possible through skin contact.
- $\cdot \textit{Additional toxicological information:}$

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.
- 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 1 (German Regulation) : slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- 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.

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13 Disposal considerations

· 13.1 Waste treatment methods

 \cdot 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 provis 640E
IMDG, IATA	PAINT RELATED MATERIAL
14.3 Transport hazard class(es)	
ADR	
Class	3 (F1) Flammable liquids.
Label	3
IMDG, IATA	
Class Label	3 Flammable liquids. 3
14.4 Packing group ADR, IMDG, IATA	III
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 MARPOL73/78 and the IBC Code	e x II of Not applicable.
Transport/Additional information:	
ADR	
Transport category	3



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· Tunnel restriction code	D/E
· UN ''Model Regulation'':	UN1263, PAINT RELATED MATERIAL, special provision 640E, 3, III

15 Regulatory information

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

· National regulations:

Class	Share in %
Ι	0.1-<0.3
NK	10-<25

· 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.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H330 Fatal if inhaled.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H411 Toxic to aquatic life with long lasting effects.
- R10 Flammable.
- R20 Harmful by inhalation.
- R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
- Toxic by inhalation. R23

R36/37/38 Irritating to eyes, respiratory system and skin.

- R37 Irritating to respiratory system.
- R42/43 May cause sensitisation by inhalation and skin contact.
- R43 May cause sensitisation by skin contact.
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R65 Harmful: may cause lung damage if swallowed.
- 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

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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 \cdot * Data compared to the previous version altered.