

Safety data sheet

according to 1907/2006/EC, Article 31 Version number 19 (replaces version 18)

Revision: 08.01.2024

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

- · 1.1 Product identifier
- [•] Trade name: Mipa PUR Plus-Härter A 60
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- No further relevant information available.
- Sector of Use
- SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
- SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- · Product category PC9a Coatings and paints, thinners, paint removers
- · Application of the substance / the mixture Hardening agent/ Curing agent
- 1.3 Details of the supplier of the safety data sheet
 Manufacturer/Supplier: MIPA SE
 Am Oberen Moos 1
 D-84051 Essenbach
 Tel.: +49 8703 92 20
 Fax.: +49 8703 92 21 00
 e-mail: sdb-registratur@mipa-paints.com
 www.mipa-paints.com
 • 1.4 Emergency telephone number: International emergency number: +49(0)700 24112112 (MIP)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
 Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 3 H226 Flammable liquid and vapour.



Acute Tox. 4 H332 Harmful if inhaled. Skin Sens. 1 H317 May cause an allergic skin reaction. STOT SE 3 H335 May cause respiratory irritation.

· 2.2 Label elements

• Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the GB CLP regulation.

Hazard pictograms



· Signal word Warning

• *Hazard-determining components of labelling:* Hexamethylene diisocyanate, oligomers 2-Butoxyethyl acetate hexamethylene-di-isocyanate

(Contd. on page 2)

⁻ GB



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according to 1907/2006/EC, Article 31

Printing date 08.01.2024

Version number 19 (replaces version 18)

Revision: 08.01.2024

Trade name: Mipa PUR Plus-Härter A 60

(Contd. of page 1) Hazard statements H226 Flammable liquid and vapour. H332 Harmful if inhaled. H317 May cause an allergic skin reaction. H335 May cause respiratory irritation. Precautionary statements P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312 Call a POISON CENTER/doctor if you feel unwell. · Additional information: EUH204 Contains isocyanates. May produce an allergic reaction. Restricted to professional users. 2.3 Other hazards · Results of PBT and vPvB assessment · PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

• **Description:** Mixture of substances listed below with nonhazardous additions.

 Dangerous components: 		
	Hexamethylene diisocyanate, oligomers () Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335, EUH204	50-100%
EINECS: 203-933-3	2-Butoxyethyl acetate Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	⊴20%
	n-Butyl acetate ♦ Flam. Liq. 3, H226;	5-<10%
EINECS: 212-485-8 Reg.nr.: 01-2119457571-37	 hexamethylene-di-isocyanate 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, EUH204 Specific concentration limits: Resp. Sens. 1; H334: C ≥ 0.5 % Skin Sens. 1; H317: C ≥ 0.5 % 	

· Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- 4.1 Description of first aid measures
- · General information:

Immediately remove any clothing soiled by the product.

(Contd. on page 3)

GB



Safety data sheet

according to 1907/2006/EC, Article 31 Version number 19 (replaces version 18)

Revision: 08.01.2024

Printing date 08.01.2024

Trade name: Mipa PUR Plus-Härter A 60

(Contd. of page 2)

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 rinse with water.

• 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.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

· Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- 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.

SECTION 6: Accidental release measures

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

· 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

Contain and collect spillages with non-combustible absorbent materials (e.g. sand, earth, diatomaceous earth) and place in a suitable container.

Decontaminate immediately with suitable mixture (flammable):

-	as	such	usable	(inflammatory!):
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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.

(Contd. on page 4)

GB



Safety data sheet

according to 1907/2006/EC, Article 31

Version number 19 (replaces version 18)

Revision: 08.01.2024

Trade name: Mipa PUR Plus-Härter A 60

See Section 13 for disposal information.

(Contd. of page 3)

SECTION 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 aci
- 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.
- · Storage class: 3
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

28182-81-2 Hexamethylene diisocyanate, oligomers

- EBW Short-term value: 0.5 mg/m³
 - exposition evaluation valu TRGS 430 (EBW)

112-07-2 2-Butoxyethyl acetate

WEL Short-term value: 332 mg/m³, 50 ppm Long-term value: 133 mg/m³, 20 ppm Sk

123-86-4 n-Butyl acetate

WEL Short-term value: 966 mg/m³, 200 ppm Long-term value: 724 mg/m³, 150 ppm

822-06-0 hexamethylene-di-isocyanate

WEL Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³ Sen; as -NCO

· Ingredients with biological limit values:

822-06-0 hexamethylene-di-isocyanate

BMGV 1 μmol creatinine/mol Medium: urine Sampling time: At the end of the period od exposure Parameter: isocyanate-derived diamine

• Additional information: The lists valid during the making were used as basis.

(Contd. on page 5)



Safety data sheet

according to 1907/2006/EC, Article 31 Version number 19 (replaces version 18)

Revision: 08.01.2024

Trade name: Mipa PUR Plus-Härter A 60

(Contd. of page 4)

· 8.2 Exposure controls

- Appropriate engineering controls No further data; see section 7.
- Individual protection measures, such as 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.
- **Respiratory protection:** Filter A/P2 (EN 141, EN 143)



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.

· Hand protection

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation



Protective gloves (EN 374)

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Material of gloves

Recommended thickness of the material: \geq 0.4 mm

Nitrile rubber, NBR

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.

Breakthrough time of glove material Value for the permeation: Level ≤ 2

· Eye/face protection



Tightly sealed goggles

SECTION 9: Physical and chemical properties

- · 9.1 Information on basic physical and chemical properties
- · General Information
- Physical state
- · Colour:

· Odour:

- · Odour threshold:
- Melting point/freezing point:
- Boiling point or initial boiling point and boiling range
- · Flammability
- · Lower and upper explosion limit
- · Lower:

Fluid According to product specification Characteristic Not determined. Undetermined.

124-128 °C (123-86-4 n-Butyl acetate) Flammable.

1.7 Vol % (112-07-2 2-Butoxyethyl acetate)

(Contd. on page 6)

GB -



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

Version number 19 (replaces version 18)

Revision: 08.01.2024

Trade name: Mipa PUR Plus-Härter A 60

	(Contd. of page
Upper:	8.4 Vol % (112-07-2 2-Butoxyethyl acetate)
Flash point:	27 °C (DIN 53213, 123-86-4 n-Butyl acetate)
Auto-ignition temperature:	280 °C (DIN 51794, 112-07-2 2-Butoxyethy
	acetate)
Decomposition temperature:	Not determined.
	Not determined.
pH Viacositri	Not determined.
Viscosity:	00 - (DIN 50011(1)
Kinematic viscosity at 20 °C	33 s (DIN 53211/4)
Dynamic:	Not determined.
Solubility	
water:	Not miscible or difficult to mix.
Partition coefficient n-octanol/water (log	7
value)	Not determined.
Vapour pressure at 20 °C:	10.7 hPa (123-86-4 n-Butyl acetate)
Density and/or relative density	
Density at 20 °C:	1.095 g/cm³ (DIN 53217)
Relative density	Not determined.
	Not determined.
Vapour density	Not determined.
9.2 Other information	
Appearance:	
Form:	Fluid
Important information on protection of I	health
and environment, and on safety.	
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation of
Explosive properties.	explosive air/vapour mixtures are possible.
Salvant contant:	explosive all'vapour mixtures are possible.
Solvent content:	00.05.8/
VOC (EC)	23.65 %
Solids content (weight-%):	76.4 %
Change in condition	
Evaporation rate	Not determined.
•	azard
Information with regard to physical h	azard
Information with regard to physical h classes	
Information with regard to physical h classes Explosives	Void
Information with regard to physical h classes Explosives Flammable gases	Void Void
Information with regard to physical h classes Explosives Flammable gases Aerosols	Void Void Void
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Information with regard to physical hi classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact with water	Void Void Void Void Flammable liquid and vapour. Void Void Void Void Void Void
Information with regard to physical hi classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact with water Oxidising liquids	Void Void Void Void Void Flammable liquid and vapour. Void Void Void Void Void Void Void
Information with regard to physical hi classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact with water Oxidising liquids Oxidising solids	Void Void Void Void Void Flammable liquid and vapour. Void Void Void Void Void Void Void Void
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Information with regard to physical hi classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact with water Oxidising liquids Oxidising solids	Void Void Void Void Void Flammable liquid and vapour. Void Void Void Void Void Void Void Void

(Contd. on page 7)



Safety data sheet

according to 1907/2006/EC, Article 31 Version number 19 (replaces version 18)

Revision: 08.01.2024

Trade name: Mipa PUR Plus-Härter A 60

(Contd. of page 6)

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- 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)

SECTION 11: Toxicological information

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Harmful if inhaled.
- · Respiratory or skin sensitisation May cause an allergic skin reaction.
- · STOT-single exposure May cause respiratory irritation.

SECTION 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.
- 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- vPvB: Not applicable.
- · 12.6 Endocrine disrupting properties
- The product does not contain substances with endocrine disrupting properties.
- 12.7 Other adverse effects
- · 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.

SECTION 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.

(Contd. on page 8)



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

Version number 19 (replaces version 18)

Revision: 08.01.2024

(Contd. of page 7)

Trade name: Mipa PUR Plus-Härter A 60

· Uncleaned packaging:

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

14.1 UN number or ID number ADR, IMDG, IATA	UN1263
14.2 UN proper shipping name	
	UN1263 PAINT RELATED MATERIAL PAINT RELATED MATERIAL
14.3 Transport hazard class(es)	
ADR	
Class Label	3 (F1) Flammable liquids. 3
IMDG, IATA	
<u>^</u>	
	3 Flammable liquids.
Label	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.
Hazard identification number (Kemler code):	
	F-E, <u>S-E</u> A
14.7 Maritime transport in bulk according to	
	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	5L
	3
	D/E
IMDG	
	5L

(Contd. on page 9)



Safety data sheet

according to 1907/2006/EC, Article 31 Version number 19 (replaces version 18)

Revision: 08.01.2024

Trade name: Mipa PUR Plus-Härter A 60

(Contd. of page 8)

SECTION 15: Regulatory information

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

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t

· National regulations:

· Additional classification according to Decree on Hazardous Materials, Annex II:

Class Share in %

NK 10-25

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

SECTION 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.
- 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.

EUH066 Repeated exposure may cause skin dryness or cracking.

EUH204 Contains isocyanates. May produce an allergic reaction.

Classification according to Regulation (EC) No 1272/2008

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

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 Organisation

ADR: Accord relatif au transport international 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 Harmonised 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)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

- Flam. Liq. 3: Flammable liquids Category 3
- Acute Tox. 2: Acute toxicity Category 2
- Acute Tox. 4: Acute toxicity Category 4 Skin Irrit. 2: Skin corrosion/irritation – Category 2
- Skin Init. 2. Skin conosion/initation Category 2 Eva Irrit 2: Sariava ava damaga/ava irritation Cat

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Resp. Sens. 1: Respiratory sensitisation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1



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

Version number 19 (replaces version 18)

Revision: 08.01.2024

Trade name: Mipa PUR Plus-Härter A 60

(Contd. of page 9) STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 · * **Data compared to the previous version altered.**

GB