

Safety Data Sheet

in accordance with HSNO Version number 28

Revision: 26.09.2023

1 Identification of the substance or mixture and of the supplier · Product identifier · Trade name: Mipa 2K-Härter H 5 · Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. · Application of the substance / the mixture Hardening agent/ Curing agent · Details of the supplier of the safety data sheet Importer in New Zealand: · Manufacturer/Supplier: **RJP** Performance Coatings MIPA SE 33 Ha Crescent, Wiri, Auckland 2104 New Zealand +64 9 25000 91 Am Oberen Moos 1 Phone: Fax: +64 9 25000 92 D-84051 Essenbach Email: sales@mipa.nz Tel.: +49 8703 92 20 Web: www.mipa.nz Fax.: +49 8703 92 21 00 24hr Emergency Assistance in New Zealand e-mail: sdb-registratur@mipa-paints.com National Poison Control Centre: 0800 POISON [764 766] www.mipa-paints.com · Emergency telephone number: International emergency number: +49(0)700 24112112 (MIP) 2 Hazards identification Classification of the substance or mixture flame Highly flammable liquid and vapour. Flam. Liq. 2 H225 health hazard H360 May damage fertility or the unborn child. Repr. 1 Eye Irrit. 2 H319 Causes serious eye irritation. 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 3 H412 Harmful to aquatic life with long lasting effects. · Label elements · GHS label elements The product is classified and labelled according to the Globally Harmonised System (GHS). · Hazard pictograms GHS02 GHS07 GHS08 · Signal word Danger · Hazard-determining components of labelling: Hexamethylene diisocyanate, oligomers n-Butyl acetate dibutyltin dilaurate Ethyl acetate (Contd. on page 2) NZ

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(Contd. of page 1) · Hazard statements H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H360 May damage fertility or the unborn child. H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness. H412 Harmful to aquatic life with long lasting effects. 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. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. · Other hazards · Results of PBT and vPvB assessment · PBT: Not applicable.

• **vPvB:** Not applicable.

3 Composition/Information on ingredients

· Chemical characterisation: Mixtures

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

[.] Dangerous	components:	
123-86-4	n-Butyl acetate	50-100%
	🚸 Flam. Liq. 3, H226; 🚸 STOT SE 3, H336	
28182-81-2	Hexamethylene diisocyanate, oligomers	25-50%
	Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335	
141-78-6	Ethyl acetate	10-25%
	🚸 Flam. Liq. 2, H225; 🚸 Eye Irrit. 2, H319; STOT SE 3, H336	
77-58-7	dibutyltin dilaurate	<i>≥</i> 0.25-<0.3%
	♦ Muta. 2, H341; Repr. 1, H360; STOT SE 1, H370; STOT RE 1, H372; <→ Skin Corr. 1C, H314; <→ Aquatic Acute 1, H400; Aquatic Chronic 1, H410;	
4083-64-1	4-isocyanatosulphonyltoluene	<i>≥</i> 0.1-<1%
	Resp. Sens. 1, H334; () Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	

4 First aid measures

· General information: Immediately remove any clothing soiled by the product.

· 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. If symptoms persist, consult a doctor.

• After swallowing: If symptoms persist consult doctor.

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- Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire fighting measures

- · Suitable extinguishing agents: Alcohol resistant foam
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture No further relevant information available.
- · Protective equipment: No special measures required.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- · Environmental precautions: Do not allow product to reach sewage system 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.
- 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.
- 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

- Handling:
- · Precautions for safe handling Keep away from heat and direct sunlight. Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols. · Information about fire - and explosion protection:
- Keep ignition sources away Do not smoke.
- Protect against electrostatic charges.
- Keep respiratory protective device available.
- · Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool location.
- Information about storage in one common storage facility: Store away from foodstuffs.
- · Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed receptacles.
- · Storage class: 3
- Specific end use(s) No further relevant information available.

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Ingredients with lin	nit values that require monitoring at the workplace:
123-86-4 n-Butyl ac	etate
WES (New Zealand)	Short-term value: 950 mg/m³, 200 ppm Long-term value: 713 mg/m³, 150 ppm
IOELV (EU)	Short-term value: 723 mg/m³, 150 ppm Long-term value: 241 mg/m³, 50 ppm
141-78-6 Ethyl acet	ate
WES (New Zealand) Long-term value: 720 mg/m³, 200 ppm	
IOELV (EU)	Short-term value: 1468 mg/m³, 400 ppm Long-term value: 734 mg/m³, 200 ppm
77-58-7 dibutyltin a	ilaurate
WES (New Zealand)	Short-term value: 0.2 mg/m³ Long-term value: 0.1 mg/m³ skin, as Sn
4083-64-1 4-isocya	natosulphonyltoluene
WES (New Zealand)	Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³ as -NCO; vapours,mist,dust; dsen,rsen,skin,ifv
Personal protective General protective	tion: The lists valid during the making were used as basis. e equipment: and hygienic measures: dstuffs, beverages and feed. all soiled and contaminated clothing breaks and at the end of work.

· Protection of hands:

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

Butyl rubber, BR

Recommended thickness of the material: \geq 0.7 mm

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.

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· Breakthrough time of glove material

For the mixture of chemicals the penetration time has to be at least 60 minutes (Permeation according to EN 374 Part 3: Level 3).

Eye protection:



Tightly sealed goggles

General Information			
Appearance:			
Form:	Fluid		
Colour:	According to product specification		
Odour:	Characteristic		
Odour threshold:	Not determined.		
pH-value:	Not determined.		
Change in condition			
Melting point/freezing point:	Undetermined.		
Initial boiling point and boiling range:	: 77-78 °C		
Flash point:	14 °C (DIN 53213)		
Flammability (solid, gas):	Highly flammable.		
Auto-ignition temperature:	370 °C (DIN 51794)		
Decomposition temperature:	Not determined.		
Ignition temperature:	Product is not selfigniting.		
Explosive properties:	Product is not explosive. However, formation of explosiv		
	air/vapour mixtures are possible.		
Explosion limits:			
Lower:	1.2 Vol %		
Upper:	11.5 Vol %		
Vapour pressure at 20 °C:	97 hPa		
Vapour pressure at 50 °C:	360 hPa		
Density at 20 °C:	0.964 g/cm³ (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/water:	Not determined.		
Viscosity:			
Dynamic:	Not determined.		
Kinematic at 20 °C:	10-15 s (DIN 53211/4)		
Solvent content:			
VOC (EC)	65.50 %		
Solids content (weight-%):	34.5 %		
Other information	No further relevant information available.		

10 Stability and reactivity

· **Reactivity** No further relevant information available.

• **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

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- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- *Incompatible materials:* No further relevant information available.
- · Hazardous decomposition products: Carbon monoxide

11 Toxicological information

· Information on toxicological effects

· Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

123-86-4 n-Butyl acetate

Oral LD50 13,100 mg/kg (rat)

Dermal LD50 >5,000 mg/kg (rabbit)

• Skin corrosion/irritation Based on available data, the classification criteria are not met.

- · Serious eye damage/irritation Causes serious eye irritation.
- **Respiratory or skin sensitisation** May cause an allergic skin reaction.
- 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 May damage fertility or the unborn child.

• STOT-single exposure May cause respiratory irritation. May cause drowsiness or dizziness.

- · 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.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- 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

- Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation

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

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· Uncleaned packaging:

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

UN-Number NZS, IMDG, IATA	UN1263		
UN proper shipping name NZS IMDG, IATA	UN1263 PAINT RELATED MATERIAL PAINT RELATED MATERIAL		
Transport hazard class(es)			
NZS			
Class	3 (F1) Flammable liquids. 3		
Label IMDG, IATA	J		
Class Label	<i>3 Flammable liquids.</i> <i>3</i>		
Packing group NZS, IMDG, IATA	11		
Environmental hazards: Marine pollutant:	No		
Special precautions for user Hazard identification number (Kemler code): EMS Number: Stowage Category	Warning: Flammable liquids. 33 F-E, <u>S-E</u> B		
Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.		
Transport/Additional information:			
NZS Limited quantities (LQ) Transport category Tunnel restriction code	5L 2 D/E		
IMDG Limited quantities (LQ)	5L		
UN "Model Regulation":	UN 1263 PAINT RELATED MATERIAL, 3, II		

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15 Regulatory information

Regulatory information				
· Safety, health and environmental regulat mixture	tions/legisl	ation	specific for the	substance or
· HSNO Approval numbers				
123-86-4 n-Butyl acetate				HSR001091
141-78-6 Ethyl acetate				HSR001041
77-58-7 dibutyltin dilaurate				HSR003610
Hazard pictograms	<u>NEW ZE</u> 3.1B 6.1E 6.4A	Flamm Specif	hable liquids ic target organ toxicity, atory tract irritation	single exposure;
• Signal word Danger • Hazard-determining components of labelling	6.5B 6.8A 6.9B	5B Sensitization, Skin 3A Reproductive toxicity		
Hazard-determining components of labeling Hexamethylene diisocyanate, oligomers n-Butyl acetate dibutyltin dilaurate Ethyl acetate • Hazard statements	9.1C HSR002	Hazaro term h	dous to the aquatic env	

· Hazard statements

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

May damage fertility or the unborn child. H360

H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

Harmful to aquatic life with long lasting effects. H412

· 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.

Wear protective gloves/protective clothing/eye protection/face protection/hearing P280 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. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

· 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 %		
Ι	<1		
NK	50-100		

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• Other regulations, limitations and prohibitive regulations Surface Coatings and Colourants (Flammable) Group Standard 2006 HSNO Approval Number: The HSNO Approval Number for this Group Standard is HSR002662. Refer also to the Site & Storage requirements document.

· 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

H225 Highly flammable liquid and vapour.

- H226 Flammable liquid and vapour.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- 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.
- H341 Suspected of causing genetic defects.
- H360 May damage fertility or the unborn child.
- H370 Causes damage to organs.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- · Contact:
- Abbreviations and acronyms:

ICAO: International Civil Aviation Organisation RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) 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 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 PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids – Category 2 Flam. Liq. 3: Flammable liquids - Category 3 Acute Tox. 4: Acute toxicity – Category 4 Skin Corr. 1C: Skin corrosion/irritation - Category 1C Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 Resp. Sens. 1: Respiratory sensitisation - Category 1 Skin Sens. 1: Skin sensitisation - Category 1 Muta. 2: Germ cell mutagenicity – Category 2 Repr. 1: Reproductive toxicity – Category 1 STOT SE 1: Specific target organ toxicity (single exposure) - Category 1 STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 STOT RE 1: Specific target organ toxicity (repeated exposure) - Category 1 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

* * Data compared to the previous version altered.