Safety Data Sheet

in accordance with HSNO

Date of issue: 05.09.2025 *Version number 19* *Revision: 04.09.2025*

1 Identification of the substance or mixture and of the supplier

· ***Other means of identification***

· ***Trade name: Rosner DD-Härter 40***

· ***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***

· ***Manufacturer/Supplier:***
Mipa SE
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
www.rosner-international.com

Importer in New Zealand:
RJP Performance Coatings
(RA Johnstone & Co Ltd)
33 Ha Crescent, Wiri
Auckland 2104
Phone: 09 25000 91
Email: sales@mipa.nz
Web: www.mipa.nz

24HR Emergency Assistance in New Zealand:
National Poisons Centre: 0800 POISON [764 766]

· ***Emergency telephone number:*** *International emergency number: +49(0)700 24112112 (MIP)*

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2 Hazards identification

· ***Classification of the substance or mixture***



GHS02 flame

Flammable liquids Category 3	*H226*	*Flammable liquid and vapour.*



GHS08 health hazard

Specific target organ toxicity - repeated exposure Category 2	*H373*	*May cause damage to the hearing organs through prolonged or repeated exposure.*
Aspiration hazard Category 1	*H304*	*May be fatal if swallowed and enters airways.*



GHS07

Skin irritation Category 2	*H315*	*Causes skin irritation.*
Eye irritation Category 2	*H319*	*Causes serious eye irritation.*
Skin sensitisation Category 1	*H317*	*May cause an allergic skin reaction.*
Specific target organ toxicity - single exposure Category 3	*H335-H336*	*May cause respiratory irritation. May cause drowsiness or dizziness.*
Hazardous to the aquatic environment chronic Category 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).

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· ***Hazard pictograms***



GHS02 GHS07 GHS08

· ***Signal word*** *Danger*

· ***Hazard-determining components of labelling:***
Reaction mass of ethylbenzene and xylene
Polyisocyanate, aromatic
n-Butyl acetate
Aromatic polyisocyanate

· ***Hazard statements***

H226	*Flammable liquid and vapour.*
H315	*Causes skin irritation.*
H319	*Causes serious eye irritation.*
H317	*May cause an allergic skin reaction.*
H335-H336	*May cause respiratory irritation. May cause drowsiness or dizziness.*
H373	*May cause damage to the hearing organs through prolonged or repeated exposure.*
H304	*May be fatal if swallowed and enters airways.*
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 carefully and follow all instructions.*
P301+P310	*IF SWALLOWED: Immediately call a POISON CENTER/ doctor.*
P321	*Specific treatment (see on this label).*
P331	*Do NOT induce vomiting.*
P303+P361+P353	*IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].*
P305+P351+P338	*IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*
P362+P364	*Take off contaminated clothing and wash it before reuse.*
P501	*Dispose of contents/container in accordance with local/regional/national/international regulations.*

· ***Other hazards***
· ***Results of PBT and vPvB assessment***
· ***PBT:*** *Not applicable.*
· ***vPvB:*** *Not applicable.*

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3 Composition/Information on ingredients

· ***Chemical characterisation: Mixtures***
· ***Description:*** *Mixture of substances listed below with nonhazardous additions.*

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· **Dangerous components:**

123-86-4	n-Butyl acetate Flammable liquids Category 3, H226; Specific target organ toxicity - single exposure Category 3, H336	25-50%
	Reaction mass of ethylbenzene and xylene Flammable liquids Category 3, H226; Specific target organ toxicity - repeated exposure Category 2, H373; Aspiration hazard Category 1, H304; Acute inhalation toxicity Category 4, H332; Skin irritation Category 2, H315; Eye irritation Category 2, H319; Specific target organ toxicity - single exposure Category 3, H335; Hazardous to the aquatic environment chronic Category 3, H412	25-50%
9017-01-0	Polyisocyanate, aromatic Eye irritation Category 2, H319; Skin sensitisation Category 1, H317	10-25%
53317-61-6	Aromatic polyisocyanate Eye irritation Category 2, H319; Skin sensitisation Category 1, H317	2.5-<10%
141-78-6	Ethyl acetate Flammable liquids Category 2, H225; Eye irritation Category 2, H319; Specific target organ toxicity - single exposure Category 3, H336	2.5-<10%

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

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:** Seek immediate medical advice.
· **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:**
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
· **Special hazards arising from the substance or mixture**
During heating or in case of fire poisonous gases are produced.
· **Protective equipment:** Mouth respiratory protective device.

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6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
· **Environmental precautions:**
Do not allow product to reach sewage system or any water course.

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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***
Ensure good ventilation/exhaustion at the workplace.
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:*** *No special requirements.*
· ***Information about storage in one common storage facility:*** *Store away from foodstuffs.*
· ***Further information about storage conditions:*** *Keep container tightly sealed.*
· ***Storage class:*** *3*
· ***Specific end use(s)*** *No further relevant information available.*

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8 Exposure controls/personal protection

· ***Appropriate engineering controls*** *No further data; see section 7.*

· ***Ingredients with limit values that require monitoring at the workplace:***	
123-86-4 n-Butyl acetate	
WES (New Zealand)	*Short-term value: 713 mg/m³, 150 ppm* *Long-term value: 238 mg/m³, 50 ppm*
IOELV (EU)	*Short-term value: 723 mg/m³, 150 ppm* *Long-term value: 241 mg/m³, 50 ppm*
141-78-6 Ethyl acetate	
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*

· ***DNELs***		
123-86-4 n-Butyl acetate		
Dermal	*DNEL*	*6 mg/kg (general population)* *11 mg/kg (Arbeiter)*
Inhalative	*DNEL*	*300 mg/m³ (general population)* *600 mg/m³ (Arbeiter)*
Reaction mass of ethylbenzene and xylene		
Dermal	*DNEL*	*212 mg/kg (Arbeiter)*

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Inhalative	DNEL	221 mg/m³ (Arbeiter)

· **Additional information:** The lists valid during the making were used as basis.
· **Personal protective equipment:**
· **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.
Store protective clothing separately.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.
· **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:**
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**
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**
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

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9 Physical and chemical properties

· **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:**	124-128 °C
· **Flash point:**	23 °C (DIN EN ISO 1523:2002)
· **Flammability**	Flammable.

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· **Auto-ignition temperature:**	390 °C (DIN 51794)
· **Decomposition temperature:**	Not determined.
· **Ignition temperature:**	Product is not selfigniting.
· **Explosive properties:**	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· **Explosion limits:**	
· **Lower:**	1 Vol %
· **Upper:**	8.5 Vol %
· **Vapour pressure at 20 °C:**	10.7 hPa
· **Vapour pressure at 50 °C:**	55 hPa
· **Density at 20 °C:**	0.954 g/cm³ (DIN EN ISO 2811-1)
· **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:**	11 s (DIN 53211/4)
· **Solvent content:**	
· **VOC (EC)**	77.47 %
· **Solids content (weight-%):**	22.5 %
· **Other information**	
· **Particle characteristics**	Not applicable.
· **Physical state**	Liquid

10 Stability and reactivity

· **Reactivity** No further relevant information available.
· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **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

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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)
Reaction mass of ethylbenzene and xylene		
Oral	LD50	3,500 mg/kg (rat)
Dermal	LD50	15,400 mg/kg (rat)
Inhalative	LC50/4 h	17.6 mg/l (rat)

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53317-61-6 Aromatic polyisocyanate		
Oral	*LD50*	*>5,000 mg/kg (rat)*
141-78-6 Ethyl acetate		
Oral	*LD50*	*5,620 mg/kg (rat)*

· ***Primary irritant effect:***
· ***Skin corrosion/irritation*** *Causes skin irritation.*
· ***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*** *Based on available data, the classification criteria are not met.*
· ***STOT-single exposure*** *May cause respiratory irritation. May cause drowsiness or dizziness.*
· ***STOT-repeated exposure*** *May cause damage to the hearing organs through prolonged or repeated exposure.*
· ***Aspiration hazard*** *May be fatal if swallowed and enters airways.*

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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.

· ***Uncleaned packaging:***
· ***Recommendation:*** *Disposal must be made according to official regulations.*

14 Transport information

· ***UN-Number***
· ***NZS, IMDG, IATA*** *UN1263*

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· **UN proper shipping name**	
· **NZS**	UN1263 PAINT RELATED MATERIAL
· **IMDG, IATA**	PAINT RELATED MATERIAL
· **Transport hazard class(es)**	
· **NZS**	
	
· **Class**	3 (F1) Flammable liquids.
· **Label**	3
· **IMDG, IATA**	
	
· **Class**	3 Flammable liquids.
· **Label**	3
· **Packing group**	
· **NZS, IMDG, IATA**	III
· **Environmental hazards:**	
· **Marine pollutant:**	No
· **Special precautions for user**	Warning: Flammable liquids.
· **Hazard identification number (Kemler code):**	30
· **EMS Number:**	F-E,S-E
· **Stowage Category**	A
· **Transport in bulk according to Annex II of Marpol and the IBC Code**	Not applicable.
· **Transport/Additional information:**	
· **NZS**	
· **Limited quantities (LQ)**	5L
· **Transport category**	3
· **Tunnel restriction code**	D/E
· **IMDG**	
· **Limited quantities (LQ)**	5L
· **UN "Model Regulation":**	UN 1263 PAINT RELATED MATERIAL, 3, III

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15 Regulatory information

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

· **HSNO Approval numbers**		
123-86-4	n-Butyl acetate	HSR001091
141-78-6	Ethyl acetate	HSR001041

· **GHS label elements**
The product is classified and labelled according to the Globally Harmonised System (GHS).

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· ***Hazard pictograms***



GHS02 GHS07 GHS08

· ***Signal word*** *Danger*

· ***Hazard-determining components of labelling:***
Reaction mass of ethylbenzene and xylene
Polyisocyanate, aromatic
n-Butyl acetate
Aromatic polyisocyanate
· ***Hazard statements***
H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.
H373 May cause damage to the hearing organs through prolonged or repeated exposure.
H304 May be fatal if swallowed and enters airways.
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 carefully and follow all instructions.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P321 Specific treatment (see on this label).
P331 Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P362+P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· ***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	50-100

NEW ZEALAND:
HSR002662 Surface Coatings and Colourants (Flammable)

· ***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.

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· ***Relevant phrases***
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs through prolonged or repeated exposure.
H412 Harmful to aquatic life with long lasting effects.

· ***Contact:***

· ***Abbreviations and acronyms:***
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)
DNEL: Derived No-Effect Level (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flammable liquids Category 2: Flammable liquids – Category 2
Flammable liquids Category 3: Flammable liquids – Category 3
Acute inhalation toxicity Category 4: Acute toxicity – Category 4
Skin irritation Category 2: Skin corrosion/irritation – Category 2
Eye irritation Category 2: Serious eye damage/eye irritation – Category 2
Skin sensitisation Category 1: Skin sensitisation – Category 1
Specific target organ toxicity - single exposure Category 3: Specific target organ toxicity (single exposure) – Category 3
Specific target organ toxicity - repeated exposure Category 2: Specific target organ toxicity (repeated exposure) – Category 2
Aspiration hazard Category 1: Aspiration hazard – Category 1
Hazardous to the aquatic environment chronic Category 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

· **** Data compared to the previous version altered.***