

1 Identification

- · Product identifier
- Trade name: Mipa 2K-Reaktivzusatz VR
- · Application of the substance / the mixture Thinner, Diluent
- · 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

Emergency telephone number: International: 011 49(0)700 24112112 (MIP) US: +1 872 5888271 (MIP)

Fleetwood Products Inc. 13 American Way Suite 15 USA - NJ 08884 Spotswood Tel.: +1 7324169590 e.mail: fleet089@hotmail.com

Reviewed on 03/01/2023

US Emergency Telephone Number (for transportation incidents only): 1-800-535-5053 (Infotrac)

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2 Hazard(s) identification

· Classification of the substance or mixture



GHS02 Flame

Flammable Liquids 3



GHS08 Health hazard

Toxic to Reproduction 1B Specific Target Organ Toxicity - Repeated Exposure 2

H226 Flammable liquid and vapor.

H360 May damage fertility or the unborn child. H373 May cause damage to organs through prolonged or repeated exposure.

GHS07

Skin Irritation 2 H315 Causes skin irritation. Eve Irritation 2A H319 Causes serious eye irritation. Sensitization - Skin 1 H317 May cause an allergic skin reaction. Specific Target Organ Toxicity - Single Exposure 3 H336 May cause drowsiness or dizziness.

· Label elements

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



· Signal word Danger

· Hazard-determining components of labeling: n-Butyl acetate

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	2K-Reaktivzusatz VR	
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dibutyltin dilau	ate	
Ethylbenzene		
2-Methoxy-1-n	ethylethyl acetate	
 Hazard staten 	ents	
H226 Flammal	ole liquid and vapor.	
H315 Causes	skin irritation.	
H319 Causes	serious eye irritation.	
H317 May cau	se an allergic skin reaction.	
H360 May dan	age fertility or the unborn child.	
	se drowsiness or dizziness.	
	se damage to organs through prolonged or repea	ated exposure.
Precautionary		
P210	Keep away from heat/sparks/open flames/ho	ot surfaces No smokina.
P260	Do not breathe dust/fume/gas/mist/vapors/s	
P280	Wear protective gloves/protective clothing/e	
	353 If on skin (or hair): Take off immediately a	
	with water/shower.	
P304+P340	IF INHALED: Remove person to fresh air an	d keep comfortable for breathing.
	338 If in eyes: Rinse cautiously with water for	
	lenses, if present and easy to do. Continue r	
F	(scale 0 - 4) ealth = 2 ire = 3 eactivity = 0	
· HMIS-ratings	•	
HEALTH 2	-lealth = 2	
	Fire = 3	
REACTIVITY 0	Reactivity = 0	
· Other hazards		
	T and vPvB assessment	
• PBT: Not appl		
• vPvB: Not app		
3 Compositio	n/information on ingredients	
[.] Chemical cha	racterization: Mixtures	
Description:	lixture of the substances listed below with nonha	azardous additions.
• Dangerous co		
•	•	50 100%
122 86 1 n E		

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123-86-4	n-Butyl acetate	50-100%
108-65-6	2-Methoxy-1-methylethyl acetate	10-25%
1330-20-7	Xylene	≥10-<15%
100-41-4	Ethylbenzene	2.5-<10%
77-58-7	dibutyltin dilaurate	<i>≥</i> 0.1-<1%

4 First-aid measures

· Description of first aid measures

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

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· 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.

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- · 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.
- 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

- · Extinguishing media
- · Suitable extinguishing agents:
- CO2, extinguishing 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.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

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 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 item 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.

· Protective Action Criteria for Chemicals

123-86-4 n-Butyl acetate	5 ppm
108-65-6 2-Methoxy-1-methylethyl acetate	50 ppm
1330-20-7 Xylene	130 ppm
100-41-4 Ethylbenzene	33 ppm
77-58-7 dibutyltin dilaurate	1.1 mg/m
PAC-2:	
123-86-4 n-Butyl acetate	200 ppm
	1,000 ppm
108-65-6 2-Methoxy-1-methylethyl acetate	-,
108-65-62-Methoxy-1-methylethyl acetate1330-20-7Xylene	920* ppm



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· PAC-3:		
123-86-4	n-Butyl acetate	3000* ppm
108-65-6	2-Methoxy-1-methylethyl acetate	5000* ppm
1330-20-7	Xylene	2500* ppm
100-41-4	Ethylbenzene	1800* ppm
77-58-7	dibutyltin dilaurate	48 mg/m ³

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7 Handling and storage

· Handling:

- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.
 Protect against electrostatic charges.
 Keep respiratory protective device available.
- · 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: Store away from foodstuffs.
- Further information about storage conditions: Keep receptacle tightly sealed.
- · Storage class: 3
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

· Control parameters

	ponents with limit values that require monitoring at the workplace:	
123-8	86-4 n-Butyl acetate	
PEL	Long-term value: 710 mg/m³, 150 ppm	
REL	Short-term value: 950 mg/m³, 200 ppm Long-term value: 710 mg/m³, 150 ppm	
TLV	Short-term value: 150 ppm Long-term value: 50 ppm	
108-6	65-6 2-Methoxy-1-methylethyl acetate	
WEEL	L Long-term value: 50 ppm	
1330-	-20-7 Xylene	
PEL	Long-term value: 435 mg/m³, 100 ppm	
REL	Short-term value: 655 mg/m³, 150 ppm Long-term value: 435 mg/m³, 100 ppm	
TLV	Long-term value: 20 ppm BEI, A4	
100-4	41-4 Ethylbenzene	
PEL	Long-term value: 435 mg/m³, 100 ppm	
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REL	Short-term value: 545 mg/m³, 125 ppm Long-term value: 435 mg/m³, 100 ppm
TLV	Long-term value: 20 ppm OTO, BEI, A3
77-58	3-7 dibutyltin dilaurate
PEL	Long-term value: 0.1 mg/m³ as Sn
REL	Long-term value: 0.1 mg/m³ as Sn, Skin
TLV	Short-term value: 0.2 mg/m³ Long-term value: 0.1 mg/m³ as Sn; A4; Skin
· Ingre	edients with biological limit values:
1330-	-20-7 Xylene
1	1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids
	11-4 Ethylbenzene
	0.15 g/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific) tional information: The lists that were valid during the creation were used as basis.
Perso Gene Keep Imme Wash Store Avoid Avoid	away from foodstuffs, beverages and feed. evaluately remove all soiled and contaminated clothing. In hands before breaks and at the end of work. Protective clothing separately. I contact with the eyes. I contact with the eyes and skin. thing equipment: A/P2
	In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
Selec	ection of hands: ction of the glove material on consideration of the penetration times, rates of diffusion and the adation
	Protective gloves
prepa Mate	glove material has to be impermeable and resistant to the product/ the substance/ the aration. rial of gloves ocarbon rubber (Viton)

Fluorocarbon rubber (Viton)

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 (Contd. on page 6)



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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 Value for the permeation: Level < 1
- Eye protection:



Tightly sealed goggles

Information on basic physical and	chemical properties
General Information	
Appearance: Form:	Fluid
Color:	According to product specification
Odor:	Characteristic
Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	124-128 °C (255.2-262.4 °F)
Flash point:	24 °C (75.2 °F) (DIN 53213)
Flammability (solid, gaseous):	Flammable.
Ignition temperature:	315 °C (599 °F) (DIN 51794)
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosiv air/vapor mixtures are possible.
Explosion limits:	
Lower:	1.1 Vol %
Upper:	10.8 Vol %
Vapor pressure at 20 °C (68 °F):	10.7 hPa (8 mm Hg)
Density at 20 °C (68 °F):	0.897 g/cm³ (7.485 lbs/gal) (DIN 53217)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/wat	er): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic at 20 °C (68 °F):	11 s (DIN 53211/4)
Solvent content:	
VOC content:	99.21 %
	890 g/l / 7.4 lb/gal



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Solids content (weight-%):

0.8 %

· Other information

No further relevant information available.

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10 Stability and reactivity

· Reactivity No further relevant information available.

- Chemical stability
- · 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

11 Toxicological information

Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

123-86-4 n-Butyl acetate

LD50 13,100 mg/kg (rat) Oral

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

- · Primary irritant effect:
- · on the skin: No irritant effect.
- · on the eye: Irritating effect.
- · Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

Carcinogenic categories

· IARC (International Agency for Research on Cancer)			
1330-20-7	Xylene	3	
100-41-4	Ethylbenzene	2B	
NTP (National Toxicology Program)			
None of the ingredients is listed.			
· OSHA-Ca (Occupational Safety & Health Administration)			
None of the	e ingredients is listed.		

12 Ecological information

Toxicitv

- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.

Behavior in environmental systems:

- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.

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· Additional	l ecological	information:
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· General notes:

Water hazard class 2 (Self-assessment): 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.

· 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:

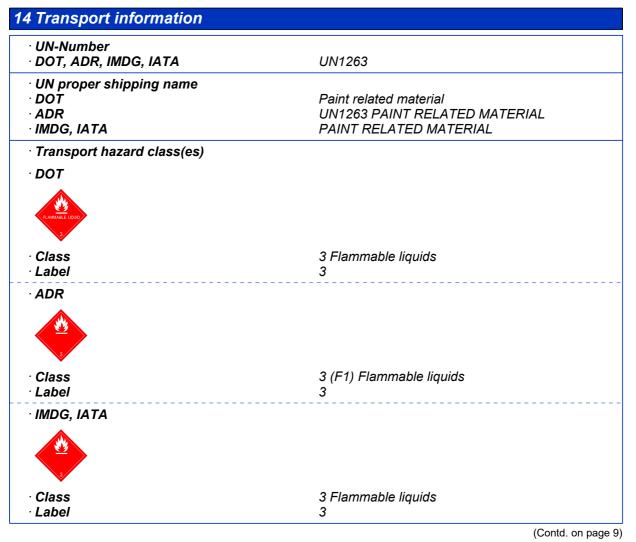
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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· Uncleaned packagings:

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





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· Packing group · DOT, ADR, IMDG, IATA	<i>III</i>
· Environmental hazards: · Marine pollutant:	No
· Special precautions for user · Hazard identification number (Kemler code	
• EMS Number: • Segregation groups • Stowage Category	F-E, <u>S-E</u> (SGG1) Acids A
 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code 	Not applicable.
· Transport/Additional information:	
· ADR · Limited quantities (LQ)	5L
· IMDG · Limited quantities (LQ)	5L
· UN "Model Regulation":	UN 1263 PAINT RELATED MATERIAL, 3, III

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Sara
- Section 355 (extremely hazardous substances):
- None of the ingredient is listed.
- · Section 313 (Specific toxic chemical listings):
- 1330-20-7 Xylene
- 100-41-4 Ethylbenzene

· Hazardous Air Pollutants

- 1330-20-7 Xylene
- 100-41-4 Ethylbenzene
- Proposition 65
- Chemicals known to cause cancer:
- 100-41-4 Ethylbenzene
- · Chemicals known to cause reproductive toxicity for females:
- None of the ingredients is listed.
- · Chemicals known to cause reproductive toxicity for males:
- None of the ingredients is listed.
- Chemicals known to cause developmental toxicity:
 None of the ingredients is listed.
- · Cancerogenity categories
- EPA (Environmental Protection Agency)
- 1330-20-7 Xylene
- 100-41-4 Ethylbenzene

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TLV (Threshold L	imit Value)	(Contd. of pag
1330-20-7 Xylene	•	A4 ≥10-<15
100-41-4 Ethylb		A3 2.5-<10
77-58-7 dibutyl		A4 ≥0.1-<1
	nal Institute for Occupational Safety an	
None of the ingred		
• GHS label elemen The product is clain • Hazard pictogram	ssified and labeled according to the Globa	ally Harmonized System (GHS).
GHS02 GHS07	GHS08	
· Signal word Dang	yer	
dibutyltin dilaurate Ethylbenzene 2-Methoxy-1-meth Hazard statemen H226 Flammable H315 Causes skin H319 Causes seri	ylethyl acetate ts iquid and vapor. irritation.	
H360 May damag H336 May cause of H373 May cause of Precautionary st P210 P260 P280 P303+P361+P353 P304+P340	drowsiness or dizziness. damage to organs through prolonged or re	es/hot surfaces No smoking. ors/spray. ng/eye protection/face protection. ely all contaminated clothing. Rinse s ir and keep comfortable for breathing. r for several minutes. Remove cont

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NK 50-100

· 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.

· Contact:

· Date of preparation / last revision 03/01/2023

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)



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ICAO: International Civil Aviation Organisation ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerni the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation 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) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) 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 NIOSH: National Institute for Occupational Safety	
OSHA: Occupational Safety & Health TLV: Threshold Limit Value	
PEL: Permissible Exposure Limit	
REL: Recommended Exposure Limit BEI: Biological Exposure Limit	
Flammable Liquids 3: Flammable liquids – Category 3	
Skin Irritation 2: Skin corrosion/irritation – Category 2 Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A	
Sensitization - Skin 1: Skin sensitisation – Category 1	
Toxic to Reproduction 1B: Reproductive toxicity – Category 1B	
Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3 Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) – Category 2	
* * Data compared to the previous version altered.	
	USA —

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