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· 1.1 Product id	entifier	
• 1.2 Relevant id No further relev	dentified use /ant informati	chutz-Grundierung es of the substance or mixture and uses advised against on available. Ince / the mixture Priming
Manufacturer// RITTAL GmbH Auf dem Stütze D-35745 Herbo Phone: +49 27 e-mail: info@rit • 1.4 Emergency	Supplier: & Co.KG Elberg orn 72 505 0 ttal.de y telephone in trale gegen 40 (emergenc 80 (office)	Vergiftungen Bonn
SECTION 2:	Hazards i	dentification
		ibstance or mixture
· Classification	according to	o Regulation (EC) No 1272/2008
GHSU	02 flame	
Flam. Liq. 3		
	H226	Flammable liquid and vapour.
	H226 08 health haz	
GHSC	08 health haz	ard
GHSC STOT RE 2	08 health haz H373	ard May cause damage to organs through prolonged or repeated
GHSC STOT RE 2	08 health haz	ard May cause damage to organs through prolonged or repeated
GHSC STOT RE 2	08 health haz H373	ard May cause damage to organs through prolonged or repeated
GHSC STOT RE 2 GHSC Eye Dam. 1	08 health haz H373 05 corrosion H318	ard May cause damage to organs through prolonged or repeated exposure. Causes serious eye damage.
GHSC STOT RE 2 GHSC Eye Dam. 1	08 health haz H373 05 corrosion	ard May cause damage to organs through prolonged or repeated exposure. Causes serious eye damage.
GHSC STOT RE 2 GHSC Eye Dam. 1 GHSC	08 health haz H373 05 corrosion H318 09 environme	ard May cause damage to organs through prolonged or repeated exposure. Causes serious eye damage. nt
GHSC STOT RE 2 GHSC Eye Dam. 1	08 health haz H373 05 corrosion H318 09 environme	ard May cause damage to organs through prolonged or repeated exposure. Causes serious eye damage.
GHSC STOT RE 2 GHSC Eye Dam. 1 GHSC	08 health haz H373 05 corrosion H318 09 environme c 2 H411	ard May cause damage to organs through prolonged or repeated exposure. Causes serious eye damage. nt
GHSC STOT RE 2 GHSC Eye Dam. 1 Current Aquatic Chronic GHSC	08 health haz H373 05 corrosion H318 09 environme c 2 H411	ard May cause damage to organs through prolonged or repeated exposure. Causes serious eye damage. nt Toxic to aquatic life with long lasting effects.
GHSC STOT RE 2 GHSC Eye Dam. 1 C Aquatic Chronic	08 health haz H373 05 corrosion H318 09 environme c 2 H411	ard May cause damage to organs through prolonged or repeated exposure. Causes serious eye damage. nt

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STOT SE	3 H335-H336 May cause respiratory irritation. May cause drowsiness dizziness.
2.2 Label	
	according to Regulation (EC) No 1272/2008 Ict is classified and labelled according to the CLP regulation.
	ictograms GHS02, GHS05, GHS07, GHS08, GHS09
	ord Danger
•	etermining components of labelling:
isobutano	• • •
xylene	
,	-A-(epichlorhydrin), epoxy resin (number average molecular weight 700-1100)
Butyl acet	
	ls,C18-unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and
propaned	amine
Hazard st	atements
H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H317	May cause an allergic skin reaction.
	86 May cause respiratory irritation. May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
	onary statements
P101 P102	If medical advice is needed, have product container or label at hand.
P102 P103	Keep out of reach of children. Read label before use.
P103 P210	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ign sources. No smoking.
D3U3+D3	51+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse
1 000+1 00	with water/shower.
P305+P3	51+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove cor
/ 0001/ 00	lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/nation
	international regulations.
Additiona	al information:
EUH205 (Contains epoxy constituents. May produce an allergic reaction.
2.3 Other	
Doculto o	f PBT and vPvB assessment

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

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

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Dangerous components:		
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32	xylene Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	10- <u>≤</u> 20%
CAS: 78-83-1 EINECS: 201-148-0 Reg.nr.: 01-2119484609-23	isobutanol � Flam. Liq. 3, H226; � Eye Dam. 1, H318; � Skin Irrit. 2, H315; STOT SE 3, H335-H336	10-25%
CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29	Butyl acetate 🚸 Flam. Liq. 3, H226; 🚸 STOT SE 3, H336	10- <u><</u> 20%
CAS: 7779-90-0 EINECS: 231-944-3 Reg.nr.: 01-2119485044-40	trizinc bis(orthophosphate) 〈 Aquatic Acute 1, H400; Aquatic Chronic 1, H410	2.5-<10%
CAS: 25068-38-6	bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight 700-1100) Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	2.5-<10%
CAS: 108-65-6 EINECS: 203-603-9 Reg.nr.: 01-2119475791-29	2-methoxy-1-methylethyl acetate	2.5-<10%
CAS: 100-41-4 EINECS: 202-849-4 Reg.nr.: 01-2119489370-35	Ethylbenzene Flam. Liq. 2, H225; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Aquatic Chronic 3, H412	2.5-<10%
CAS: 64-17-5 EINECS: 200-578-6 Reg.nr.: 01-2119457610-43	ethanol 🚸 Flam. Liq. 2, H225; 🚸 Eye Irrit. 2, H319	0.1-<2.5%
CAS: 162627-17-0 EC number: 605-296-0 Reg.nr.: 01-2119970640-38	Fatty acids,C18-unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and1,3-propanediamine Skin Sens. 1A, H317	0.1-<1%
CAS: 1314-13-2 EINECS: 215-222-5	zinc oxide Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0.1-<0.25%

SECTION 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.

· 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. Then consult a doctor.

• After swallowing: If symptoms persist consult doctor.

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- (Contd. of page 3) • **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.
- · Information for doctor:

SECTION 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
- No further relevant information available.
- · 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 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.
- 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 item 13. Ensure adequate ventilation.
- Do not flush with water or aqueous cleansing agents
- 6.4 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.

SECTION 7: Handling and storage

- **7.1 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.
- · 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: Store away from foodstuffs.
- · Further information about storage conditions: Keep container tightly sealed.
- · Storage class: 3
- 7.3 Specific end use(s) No further relevant information available.

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SECTION 8: Exposure controls/personal protection

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

· 8.1 Control parameters

7 xylene part-term value: 441 mg/m³, 100 ppm pg-term value: 220 mg/m³, 50 ppm BMGV sobutanol part-term value: 231 mg/m³, 75 ppm pg-term value: 154 mg/m³, 50 ppm Butyl acetate part-term value: 966 mg/m³, 200 ppm pg-term value: 724 mg/m³, 150 ppm 2-methoxy-1-methylethyl acetate part-term value: 548 mg/m³, 100 ppm pg-term value: 274 mg/m³, 50 ppm Ethylbenzene port-term value: 552 mg/m³, 125 ppm pg-term value: 441 mg/m³, 100 ppm thanol pg-term value: 441 mg/m³, 100 ppm thanol ng-term value: 1920 mg/m³, 1000 ppm pts with biological limit values:
ng-term value: 220 mg/m³, 50 ppm BMGV sobutanol port-term value: 231 mg/m³, 75 ppm gg-term value: 154 mg/m³, 50 ppm Butyl acetate port-term value: 966 mg/m³, 200 ppm ng-term value: 724 mg/m³, 150 ppm 2-methoxy-1-methylethyl acetate port-term value: 548 mg/m³, 100 ppm ng-term value: 274 mg/m³, 50 ppm Ethylbenzene port-term value: 552 mg/m³, 125 ppm ng-term value: 441 mg/m³, 100 ppm thanol ng-term value: 1920 mg/m³, 1000 ppm ths with biological limit values:
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by term value: 966 mg/m³, 200 ppm ag-term value: 724 mg/m³, 150 ppm 2-methoxy-1-methylethyl acetate by term value: 548 mg/m³, 100 ppm ag-term value: 274 mg/m³, 50 ppm Ethylbenzene by term value: 552 mg/m³, 125 ppm ag-term value: 441 mg/m³, 100 ppm thanol ng-term value: 1920 mg/m³, 1000 ppm thanol mg-term value: 1920 mg/m³, 1000 ppm
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ort-term value: 548 mg/m³, 100 ppm og-term value: 274 mg/m³, 50 ppm Ethylbenzene ort-term value: 552 mg/m³, 125 ppm og-term value: 441 mg/m³, 100 ppm thanol ng-term value: 1920 mg/m³, 1000 ppm nts with biological limit values:
bg-term value: 274 mg/m³, 50 ppm Ethylbenzene brt-term value: 552 mg/m³, 125 ppm bg-term value: 441 mg/m³, 100 ppm thanol bg-term value: 1920 mg/m³, 1000 ppm mg-term value: 1920 mg/m³, 1000 ppm
ort-term value: 552 mg/m³, 125 ppm ng-term value: 441 mg/m³, 100 ppm thanol ng-term value: 1920 mg/m³, 1000 ppm nts with biological limit values:
ng-term value: 441 mg/m³, 100 ppm thanol ng-term value: 1920 mg/m³, 1000 ppm nts with biological limit values:
ng-term value: 1920 mg/m³, 1000 ppm hts with biological limit values:
nts with biological limit values:
-
7 xylene
50 mmol/mol creatinine ledium: urine ampling time: post shift arameter: methyl hippuric acid
al information: The lists valid during the making were used as basis.
sure controls protective equipment: protective and hygienic measures: ay from foodstuffs, beverages and feed. ely remove all soiled and contaminated clothing hds before breaks and at the end of work. hale gases / fumes / aerosols. hatact with the skin. hatact with the eyes and skin.



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 (EN 141, EN 143)

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· Protection of hands:



Protective gloves (EN 374)

- · Material of gloves Fluorocarbon rubber (Viton)
 - Recommended thickness of the material: \geq 0.7 mm
- · Breakthrough time of glove material Value for the permeation: Level ≤ 1
- · Eye protection:



Tightly sealed goggles

SECTION 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: 116 °C
Flash point:	23 °C (DIN 53213)
· Flammability (solid, gas):	Not applicable.
Ignition temperature:	370 °C (DIN 51794)
Decomposition temperature:	Not determined.
• Auto-ignition temperature:	Product is not selfigniting.
• Explosive properties:	Product is not explosive. However, formation o explosive air/vapour mixtures are possible.
• Explosion limits:	
Lower:	1.1 Vol %
Upper:	12.0 Vol %
· Vapour pressure at 20 °C:	12 hPa
· Density at 20 °C:	1.142 g/cm³ (DIN 53217)
Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.

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 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:	115 s (DIN 53211/4)
· Solvent content:	
Water:	0.2 %
VOC (EC)	52.89 %
Solids content (weight-%):	46.9 %
· 9.2 Other information	No further relevant information available.

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 (HCI) Carbon monoxide Nitrogen oxides (NOx)

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

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

Oral	LD50	5251 mg/kg (rat)	
Dermal	LD50	> 5000 mg/kg (rabbit)	
Inhalative	e LC50/4 h (Dämpfe)	29 mg/l (rat)	
7779-90-	o trizinc bis(orthop)	hosphate)	
Oral	LD50	>5000 mg/kg (rat)	
1314-13-	2 zinc oxide		
Oral	LD50	> 5000 mg/kg (rat)	
Primary	irritant effect:	•	

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- Serious eye damage/irritation Causes serious eye damage.
- · Respiratory or skin sensitisation
- May cause an allergic skin reaction.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · 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 organs through prolonged or repeated exposure.

· Aspiration hazard Based on available data, the classification criteria are not met.

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.
- Ecotoxical effects:
- · Remark: Toxic for 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. Also poisonous for fish and plankton in water bodies.

- Toxic for 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.

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.

· European waste catalogue

08 01 11* waste paint and varnish containing organic solvents or other hazardous substances

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

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SECTION 14: Transport information · 14.1 UN-Number · ADR, IMDG, IATA UN1263 · 14.2 UN proper shipping name · ADR UN1263 PAINT, ENVIRONMENTALLY HAZARDOUS · IMDG PAINT (trizinc bis(orthophosphate), Solvent naphtha), MARINE POLLUTANT ·IATA PAINT · 14.3 Transport hazard class(es) · ADR · Class 3 (F1) Flammable liquids. · Label 3 · IMDG · Class 3 Flammable liquids. · Label 3 ·IATA · Class 3 Flammable liquids. · Label 3 · 14.4 Packing group · ADR, IMDG, IATA $\parallel \parallel$ · 14.5 Environmental hazards: Product contains environmentally hazardous substances: trizinc bis(orthophosphate) · Marine pollutant: No Symbol (fish and tree) Symbol (fish and tree) · Special marking (ADR): · 14.6 Special precautions for user Warning: Flammable liquids. · Danger code (Kemler): 30 · EMS Number: F-E,S-E · Stowage Category Α · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable. (Contd. on page 10) GB



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· Transport/Additional information:	
· ADR	
· Transport category	3
Tunnel restriction code	D/E
· Remarks:	≤ 5 I: 2.2.3.1.5 ADR
·IMDG	
 Limited quantities (LQ) 	5L
Remarks:	≤ 5 l: 2.2.3.1.5 IMDG
· UN "Model Regulation":	UN 1263 PAINT, 3, III, ENVIRONMENTALLY HAZARDOUS

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
 E2 Hazardous to the Aquatic Environment
 P5c FLAMMABLE LIQUIDS
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

· National regulations:

Class	Share in %
NK	50-100

· 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

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

- 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.

H318 Causes serious eye damage.

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.

H400 Very toxic to aquatic life.

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H410 Very toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. Abbreviations and acronyms: RID: Réglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulat Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning International Cariage 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 List of Notified 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 DBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids – Category 2 Flam. Liq. 3: Flammable liquids – Category 2 Skin Sens. 1: Skin sensitisation – Category 1 Skin Sens. 1: Skin sensitisation – Category 1 Skin Sens. 1: Skin sensitisation – Category 1 Skin Sens. 1: Skin sensitisation – Category 1 Apuatic Chronic 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 2: Hazardous to the aquatic environment - lon	 412 Harmful to aquatic life with long lasting effects. bbreviations and acronyms: ID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulation on cerning the International Transport of Dangerous Goods by Rail) AO: International Civil Aviation Organisation DR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning ternational Carriage of Dangerous Goods by Road) IDG: International Maritime Code for Dangerous Goods TA: International Air Transport Association HS: Globally Harmonised System of Classification and Labelling of Chemicals NECS: European Inventory of Existing Commercial Chemical Substances LINCS: European List of Notified Chemical Substances AS: Chemical Abstracts Service (division of the American Chemical Society) OC: Volatile Organic Compounds (USA, EU)
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	Data compared to the previous version altered.