Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 04.02.2015 Version number 45 Revision: 04.02.2015

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

- · 1.1 Product identifier
- · Trade name: Korrosionsschutz-Grundierung
- 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- · Application of the substance / the mixture Primer/ Subcoating
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

RITTAL GmbH & Co.KG Auf dem Stützelberg D-35745 Herborn

Phone: +49 2772 505 0 e-mail: info@rittal.de

· 1.4 Emergency telephone number:

Informationszentrale gegen Vergiftungen

Tel.: 0228/19240 (Notfall) 0228/287-3-3480 (Sekretariat)

Fax: 0228/287-3-3278

SECTION 2: Hazards identification

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



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS08 health hazard

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Skin Irrit. 2 H315 Causes skin 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.

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· Classification according to Directive 67/548/EEC or Directive 1999/45/EC

×

Xn; Harmful

R20/21: Harmful by inhalation and in contact with skin.

*

Xi; Irritant

R38-41: Irritating to skin. Risk of serious damage to eyes.

×

Xi; Sensitising

R43: May cause sensitisation by skin contact.

R10-52/53: Flammable. Harmful to aquatic organisms, may cause long-term adverse effects in

the aquatic environment.

Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

· 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

- · Hazard pictograms GHS02, GHS05, GHS07, GHS08
- · Signal word Danger

· Hazard-determining components of labelling:

butanol

xvlene

bisphenole

n-butyl acetate

Hazard statements

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H335-H336 May cause respiratory irritation. 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.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.

Rinse skin with water/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.

P310 Immediately call a POISON CENTER/doctor.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/

international regulations.

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- · Additional information:
- Contains epoxy constituents. May produce an allergic reaction.
- · 2.3 Other hazards

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

SECTION 3: Composition/information on ingredients

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

· Dangerous components:		
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32	xylene Xn R20/21; Xi R38 R10 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	12.5-<20%
CAS: 78-83-1 EINECS: 201-148-0 Reg.nr.: 01-2119484609-23	butanol Xi R37/38-41 R10-67 Plam. Liq. 3, H226; Eye Dam. 1, H318; Skin Irrit. 2, H315; STOT SE 3, H335-H336	10-<15%
CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29	• -, -, -, -, -, -, -, -, -, -, -, -, -,	3-<10%
	Mixture of 77% trizinc bis(orthophosphate) (CAS 7779-90-0), 2% zinc oxide (CAS 1314-13-2) and 21% non-hazardous ingredients N R51/53 Aquatic Chronic 2, H411	3-<10%
CAS: 25068-38-6	bisphenole Xi R36/38; Xi R43 ♦ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	3-<10%
CAS: 112-07-2 EINECS: 203-933-3 Reg.nr.: 01-2119475112-47	2-butoxyethyl acetate Xn R20/21/22 ♦ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	3- <u>≤</u> 5%
CAS: 100-41-4 EINECS: 202-849-4	Ethylbenzene Xn R20;	3-<10%

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CAS: 64-17-5	ethanol	1-<2.5%
EINECS: 200-578-6	♦ F R11	
Reg.nr.: 01-2119457610-43	♦ Flam. Liq. 2, H225	
CAS: 162627-17-0 EC number: 605-296-0	Condensation products of dimerised fatty acids, C18-unsaturated, with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine Xi R43 Skin Sens. 1, H317	
CAS: 64742-95-6 EC number: 918-668-5	Solvent naphtha (petroleum), light arom. Xn R65; X Xi R37; N R51/53 R10-66-67 Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; ↑ STOT SE 3, H335-H336	0.1-<0.3%

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

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.
- · 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, 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.

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· 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.

SECTION 8: Exposure controls/personal protection

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

· Ingredients with I	imit values that	require monitoring	g at the workplace.
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1330-20-7 xylene

WEL Short-term value: 441 mg/m³, 100 ppm

Long-term value: 220 mg/m³, 50 ppm

Sk; BMGV

78-83-1 butanol

WEL Short-term value: 231 mg/m³, 75 ppm

Long-term value: 154 mg/m³, 50 ppm

123-86-4 n-butyl acetate

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

Long-term value: 724 mg/m³, 150 ppm

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112-07-2 2-butoxyethyl acetate

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

Sk

100-41-4 Ethylbenzene

WEL Short-term value: 552 mg/m³, 125 ppm Long-term value: 441 mg/m³, 100 ppm

Sk

64-17-5 ethanol

WEL Long-term value: 1920 mg/m³, 1000 ppm

· Ingredients with biological limit values:

1330-20-7 xylene

BMGV 650 mmol/mol creatinine

Medium: urine

Sampling time: post shift

Parameter: methyl hippuric acid

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · 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.

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

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.

Filter A/P2 (EN 141, EN 143)

Protection of hands:



Protective gloves (EN 374)

· Material of gloves

Fluorocarbon rubber (Viton)

Recommended thickness of the material: ≥ 0.7 mm

· Penetration time of glove material Value for the permeation: Level ≤ 3

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· Eye protection:



Tightly sealed goggles

SECTION 9: Physical and ch	
9.1 Information on basic physical a	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/Melting range:	Undetermined.
Boiling point/Boiling range:	116 ℃
Flash point:	27 °C (DIN 53213)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	370 °C (DIN 51794)
Decomposition temperature:	Not determined.
Self-igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosi 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:	1.21 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/wa	ter): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic at 20 °C:	125 s (DIN 53211/4)
Solvent content:	
Water:	0.2 %

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 VOC (EC)
 50.75 %

 Solids content (weight-%):
 49.1 %

• **9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

- · 10.1 Reactivity
- · 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:
- · LD/LC50 values relevant for classification:

1330-20-7 xylene

Oral LD50 8700 mg/kg (rat)

- Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- · on the eye: Strong irritant with the danger of severe eye injury.
- · Sensitisation: Sensitisation possible through skin contact.
- Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful

Irritant

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: Harmful to fish

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- · 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

- · 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 dangerous substances

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

SECTION 14: Transport information

- · 14.1 UN-Number
- · **ADR, IMDG, IATA** UN1263
- · 14.2 UN proper shipping name
- · ADR 1263 PAINT, special provision 640E

· **IMDG, IATA** PAINT

- · 14.3 Transport hazard class(es)
- · ADR



- · Class 3 (F1) Flammable liquids.
- · Label
- · IMDG, IATA



- · Class 3 Flammable liquids.
- · Label

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· 14.4 Packing group · ADR, IMDG, IATA	III
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user · Danger code (Kemler): · EMS Number:	Warning: Flammable liquids. 30 F-E, <u>S-E</u>
· 14.7 Transport in bulk according to Ann of MARPOL73/78 and the IBC Code	n ex II Not applicable.
· Transport/Additional information:	
· ADR · Transport category · Tunnel restriction code · Remarks:	3 D/E ≤ 450 l: -
· IMDG · Limited quantities (LQ) · Remarks:	5L ≤ 30 l: -
· UN "Model Regulation":	UN1263, PAINT, special provision 640E, 3, III

SECTION 15: Regulatory information

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

Relevant pinases		
H225	Highly flammable liquid and vapour.	
H226	Flammable liquid and vapour.	
H302	Harmful if swallowed.	
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.

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H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
R10	Flammable.
R11	Highly flammable.
R20	Harmful by inhalation.
R20/21	Harmful by inhalation and in contact with skin.
	P. Harmful by inhalation, in contact with skin and if swallowed.
R36/38	Irritating to eyes and skin.
R37	Irritating to respiratory system.
R37/38	Irritating to respiratory system and skin.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.
R43	May cause sensitisation by skin contact.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic
	environment.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.
	tions and acronyms:
	ment international concernant le transport des marchandises dangereuses par chemin de fer (Regulations
	the International Transport of Dangerous Goods by Rail)
	national Civil Aviation Organisation
	d européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the
	Carriage of Dangerous Goods by Road)
	national Maritime Code for Dangerous Goods
	ational Air Transport Association
	Ily Harmonised System of Classification and Labelling of Chemicals
	ropean Inventory of Existing Commercial Chemical Substances ropean List of Notified Chemical Substances
	ical Abstracts Service (division of the American Chemical Society)
	le Organic Compounds (USA, EU)
	I concentration, 50 percent
LD50: Letha	I dose, 50 percent
	Flammable liquids, Hazard Category 2
_ ·	Flammable liquids, Hazard Category 3
	1: Acute toxicity, Hazard Category 4 Skin corresponding to the Category 2
	Skin corrosion/irritation, Hazard Category 2 · Serious eye damage/eye irritation, Hazard Category 1
	Serious eye damage/eye irritation, Hazard Category 2
•	1: Sensitisation - Skin, Hazard Category 1
	Specific target organ toxicity - Single exposure, Hazard Category 3
STOT RE 2:	Specific target organ toxicity - Repeated exposure, Hazard Category 2
Asp. Tox. 1:	Aspiration hazard, Hazard Category 1
	onic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2
	onic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

* Data compared to the previous version altered.