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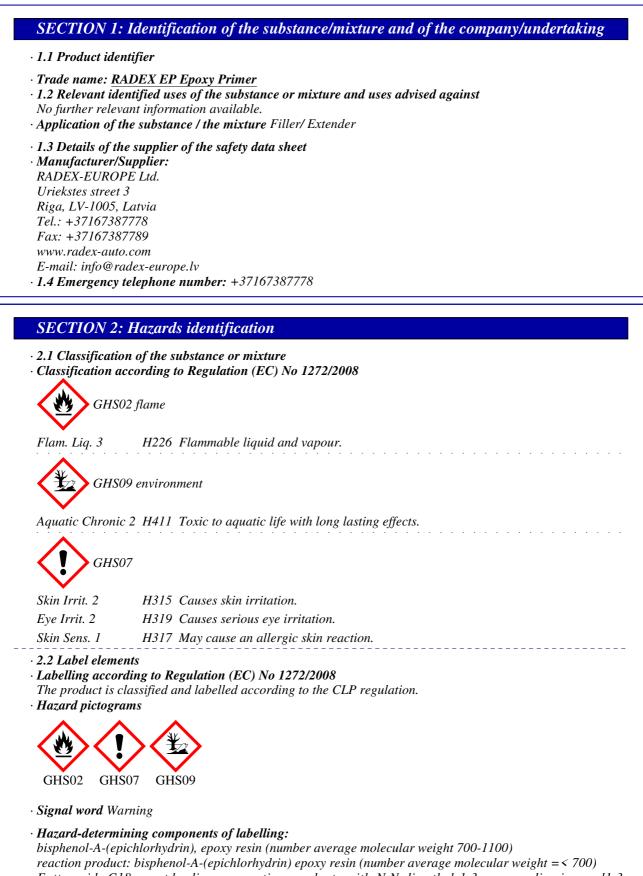
Safety data sheet

according to 1907/2006/EC, Article 31

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Fatty acids,C18-unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and1,3-propanediamine

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· Hazard statements	5
H226 Flammable	liquid and vapour.
H315 Causes skin	irritation.
H319 Causes seric	pus eye irritation.
H317 May cause a	in allergic skin reaction.
H411 Toxic to aqu	atic life with long lasting effects.
· Precautionary stat	tements
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, hot surfaces, sparks, open flames and other ignition sources. No
D2(1	smoking.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353	<i>3 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</i>
P305+P351+P338	8 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
· Additional inform	8
EUH205 Contains	epoxy constituents. May produce an allergic reaction.
· 2.3 Other hazards	
· Results of PBT an	d vPvB assessment

· **PBT:** Not applicable.

· vPvB: Not applicable.

2

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

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

Dangerous components:		
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	10-25%
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	5-<10%
CAS: 107-98-2 EINECS: 203-539-1 Reg.nr.: 01-2119457435-35	1-methoxy-2-propanol Flam. Liq. 3, H226; (I) STOT SE 3, H336	2.5-<10%
CAS: 78-93-3 EINECS: 201-159-0 Reg.nr.: 01-2119457290-43	methyl ethyl ketone Flam. Liq. 2, H225;	2.5-<10%
CAS: 25068-38-6 NLP: 500-033-5 Reg.nr.: 01-2119456619-26	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = < 700) Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	≥2.5-<5%
CAS: 12001-26-2	potassium aluminium silicate substance with a Community workplace exposure limit	2.5-<10%
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%

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CAS: 78-83-1	isobutanol	≥1-<2.5%
EINECS: 201-148-0	🚸 Flam. Liq. 3, H226; 🔶 Eye Dam. 1, H318; 🚸 Skin Irrit. 2,	
Reg.nr.: 01-2119484609-23	H315; STOT SE 3, H335-H336	
CAS: 162627-17-0	Fatty acids, C18-unsatd., dimers, reaction products with N, N-	≥0.1-<1%
EC number: 605-296-0	dimethyl-1,3-propanediamine and1,3-propanediamine	
Reg.nr.: 01-2119970640-38	🚯 Skin Sens. 1A, H317	
• Additional information: For	r the wording of the listed hazard phrases refer to section 16.	

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· 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: Generally the product does not irritate the skin.
- · 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.
- · 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: No special measures required.

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.
- \cdot 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). 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.

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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

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

1330-20-7 Xylene

WEL Short-term value: 441 mg/m³, 100 ppm Long-term value: 220 mg/m³, 50 ppm Sk; BMGV

107-98-2 1-methoxy-2-propanol

WEL Short-term value: 560 mg/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm Sk

78-93-3 methyl ethyl ketone

WEL Short-term value: 899 mg/m³, 300 ppm Long-term value: 600 mg/m³, 200 ppm Sk, BMGV

12001-26-2 potassium aluminium silicate

WEL Long-term value: 10* 0.8** mg/m³ *total inhalable **respirable

78-83-1 isobutanol

WEL Short-term value: 231 mg/m³, 75 ppm Long-term value: 154 mg/m³, 50 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 78-93-3 methyl ethyl ketone

BMGV 70 µmol/L

Medium: urine

Sampling time: post shift

Parameter: butan-2-one

• 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.

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Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. 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:

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.



Protective gloves (EN 374)

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· 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

9.1 Information on basic physical a General Information Appearance:	nd chemical properties	
Form:	Fluid	
Colour:	According to product specification	
Odour:	Characteristic	
Odour threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition Melting point/freezing point: Initial boiling point and boiling re	Undetermined. ange: 79-80.5 °C	
Flash point:	24 °C (DIN EN ISO 1523:2002)	
Flammability (solid, gas):	Not applicable.	
Ignition temperature:	270 °C (DIN 51794)	
Decomposition temperature:	Not determined.	

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• Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air vapour mixtures are possible.
· Explosion limits:	
Lower:	1.1 Vol %
Upper:	7 Vol %
· Vapour pressure at 20 °C:	105 hPa
· Density at 20 °C:	1.453 g/cm ³ (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:	210 s (DIN 53211/4)
· Solvent content:	
VOC (EC)	28.03 %
Solids content (weight-%):	72.0 %
· 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

2

- 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 (HCl) 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.

· LD/LC50 values relevant for classification:			
1330-20-7	Xylene		
Oral	LD50	5,251 mg/kg (rat)	
Dermal	LD50	>5,000 mg/kg (rabbit)	
Inhalative	LC50/4 h	29 mg/l (rat)	
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Dermal I 7779-90-0 I Oral I Primary irri Skin corrosi Causes skin Serious eye Causes seric Respiratory May cause a CMR effects Germ cell m Carcinogeni Reproductiv STOT-repea Aspiration h SECTION 12.1 Toxicit	D50 >2,000 rizinc bis(orthopi D50 >5,000 tant effect: on/irritation irritation. damage/irritation or skin sensitisation. or skin sensitisation. or skin sensitisation. (carcinogenity, for utagenicity Based icity Based on avail e toxicity Based of e exposure Based ted exposure Based	on ction. outagenicity and toxicity for re on available data, the classific ilable data, the classification cu n available data, the classificat on available data, the classificat on available data, the classificat ou available data, the classificat vailable data, the classification	ation criteria are not met. riteria are not met. ion criteria are not met. ution criteria are not met. fication criteria are not met.
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Skin corrosi Causes skin Serious eye Causes serio Respiratory May cause a CMR effects Germ cell m Carcinogem Reproductiv STOT-singla STOT-repea Aspiration h SECTION 12.1 Toxicit	on/irritation irritation. damage/irritation ous eye irritation. or skin sensitisata in allergic skin rea (carcinogenity, r utagenicity Based icity Based on ava e toxicity Based of e exposure Based oted exposure Based oted exposure Based oted asposure Based	ction. Dutagenicity and toxicity for re on available data, the classific ilable data, the classification cr n available data, the classificat on available data, the classificat ed on available data, the classification vailable data, the classification	ation criteria are not met. riteria are not met. ion criteria are not met. ution criteria are not met. fication criteria are not met.
SECTION			
12.1 Toxicit	12: Ecologica		
		l information	
12.2 Persista 12.3 Bioacca 12.4 Mobilit Ecotoxical e Remark: To	city: No further r. ence and degrada umulative potenti y in soil No furthe ffects: xic for fish	levant information available. bility No further relevant inforn Il No further relevant informati r relevant information availabl	on available.
Additional e General not	cological inform es:	tion:	
Do not allov Danger to d Also poisono	v product to reach rinking water if ev	Regulation) : hazardous for wa ground water, water course or en small quantities leak into the unkton in water bodies.	sewage system.

- · **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

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

14.1 UN-Number	
ADR, IMDG, IATA	UN1263
14.2 UN proper shipping name	
ADR	UN1263 PAINT, ENVIRONMENTALLY HAZARDOUS
IMDG	PAINT (bisphenolresins, Trizinc bis(orthophosphate) MARINE POLLUTANT
IATA	PAINT
14.3 Transport hazard class(es)	
ADR	
- Class	3 (F1) Flammable liquids.
Label	3
IMDG	
Class Label	3 Flammable liquids. 3
IATA	,
Class	3 Flammable liquids.
Label	3
14.4 Packing group ADR, IMDG, IATA	III
14.5 Environmental hazards:	Product contains environmentally hazardous substance Trizinc bis(orthophosphate)
Marine pollutant:	No
Special marking (ADR):	Symbol (fish and tree) Symbol (fish and tree)
14.6 Special precautions for user Danger code (Kemler):	Warning: Flammable liquids. 30
EMS Number:	50 F-E,S-E
Stowage Category	A A
14.7 Transport in bulk according to And Marpol and the IBC Code	nex II of Not applicable.

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· Transport/Additional information:	
$\cdot ADR$	
· Transport category	3
· Tunnel restriction code	D/E
· Remarks:	$\leq 5 l: 2.2.3.1.5 ADR$
· 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
- \cdot 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	25-50	

· 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. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. · Classification according to Regulation (EC) No 1272/2008 The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

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(Contd. of page 9) · 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) ICAO: International Civil Aviation Organisation ADR: Accord européen sur le transport 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 GHS: Globally Harmonised System of Classification and Labelling of Chemicals 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 Irrit. 2: Skin corrosion/irritation - Category 2 Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Skin Sens. 1: Skin sensitisation – Category 1 Skin Sens. 1A: Skin sensitisation - Category 1A STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2 Asp. Tox. 1: Aspiration hazard - 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 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2 • * Data compared to the previous version altered. GB