

SAFETY DATA SHEET

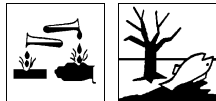
according to Regulation (EU) No. 1907/2006

S&P Resin Epoxy 55 (Comp. B)

1. Identification of the substance/preparation and of the company/undertaking

Use of the Substance/Preparation	Hardener for epoxy resin
Company/Undertaking Identification	S&P Reinforcement International AG Seewernstrasse 127 CH-6423 Seewen/SZ Switzerland +41 41 825 00 70 / info@sp-reinforcement.eu (8 – 17 h)
Emergency telephone number	145 / +41 44 251 51 51 (Swiss Toxicological Info Center - 24h)
Revision Date	14.04.2011
Version	1

2. Hazards identification



C - Corrosive.
N - Dangerous for the environment.

Causes burns. May cause sensitisation by skin contact. Harmful by inhalation, in contact with skin and if swallowed. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. Composition/information on ingredients

Chemical characterization Adhesive.

Components		Symbol(s)	R-phrase(s)	CAS	EINECS
Benzyl alcohol	25% - 50%	Xn	R-20/22	100-51-6	202-859-9
3-aminomethyl-3,5,5-trimethylcyclohexylamine	25% - 50%	C	R-21/22-34-43-52/53	2855-13-2	220-666-8
m-Xylene-a-a'-diamine	15% - 20%	C	R-34-43-20/22-52/53	1477-55-0	216-032-5
nonylphenol	2.5% - 5%	C,N	R-22-34-62-63-	25154-52-3	246-672-0

		50/53		
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4. First aid measures

Inhalation	Move to fresh air.
Skin contact	Wash off immediately with soap and plenty of water. Remove contaminated clothes and shoes. Consult a physician for severe cases.
Eye contact	Rinse immediately with plenty of water, also under the eyelids. Consult an ophthalmologist.
Ingestion	Rinse mouth. Do not induce vomiting without medical advice. Consult a physician for severe cases.

5. Fire-fighting measures

Suitable extinguishing media	Use dry chemical, CO ₂ , water spray or alcohol foam.
Special protective equipment for firefighters	Standard procedure for chemical fires.
Specific methods	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

6. Accidental release measures

Personal precautions	Avoid contact with skin and eyes. Ensure adequate ventilation.
Environmental precautions	Do not flush into surface water or sanitary sewer system.
Methods for cleaning up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal.

7. Handling and storage

Handling	Avoid contact with skin and eyes.
Storage	Keep tightly closed in a dry and cool place.

8. Exposure controls / personal protection

Switzerland	m-Xylylenediamine Exposure Limit Value 0,1 mg/m ³ Poisoning by resorption through skin possible
Occupational exposure controls	Handle in accordance with good industrial hygiene and safety practice.
Personal protection equipment	
Respiratory protection	Breathing apparatus needed only when aerosol or mist is formed. Respirator with A/P2 filter.
Hand protection	Gloves made of Nitril. Protective gloves complying with EN 374. Break through time: 1 h.
Eye protection	Safety glasses with side-shields conforming to EN 166. Eye wash bottle with pure water.
Skin and body protection	Long sleeved clothing.

9. Physical and chemical properties

Form	Viscous.
Colour	Light yellow.
Odour	Amine-like.
Physical and chemical properties	pH > 10 . Flash point: > 110 °C. Water solubility: partly soluble Fat solubility: partly soluble Melting point/range – not determined. Boiling point/range – not determined. Density 1.1 g/ml. Explosion limits: not applicable.

10. Stability and reactivity

Stability	Stable at normal conditions. No decomposition if used as directed.
Conditions to avoid	Direct sources of heat.
Materials to avoid	Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.
Hazardous decomposition products	None reasonably foreseeable.

11. Toxicological information

Acute toxicity	Benzyl alcohol LD50/oral/rat = 1230 mg/kg. 3-aminomethyl-3,5,5-trimethylcyclohexylamine LD50/oral/rat = 1030 mg/kg.
Local effects	Causes burns.
Long term toxicity	No data is available on the product itself.
Sensitization	May cause sensitisation by skin contact.

12. Ecological information

Ecotoxicity	No data is available on the product itself.
Results of PBT assessment	This preparation contains substances considered to be persistent, bioaccumulating and toxic (PBT).
Other adverse effects	highly water contaminating (WGK-D : 3 – self estimation).

13. Disposal considerations

Waste from residues / unused products	European Waste catalogue code (EWC-code): 08 01 11. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.
Contaminated packaging	Empty containers should be taken for local recycling, recovery or waste disposal.

14. Transport information

ADR/RID	<p>Proper shipping name POLYAMINES, LIQUID, CORROSIVE, N.O.S. (3-aminomethyl-3,5,5-trimethylcyclohexylamine, m-Xylene-a-a'-diamine) UN No 2735. Class 8. Packing group III. ADR/RID-Labels 8. Classification code C7. Risk No. 80. Limited quantities LQ7. Tunnel code 3 (E)</p>
IMO	<p>Proper shipping name Polyamines, liquid, corrosive, n.o.s. (3-aminomethyl-3,5,5-trimethylcyclohexylamine, m-Xylene-a-a'-diamine) UN No 2735. Class 8. Packing group III. ADR/RID-Labels 8. Limited quantities 5 L. EmS F-E, S-B.</p>
ICAO	<p>Proper shipping name Polyamines, liquid, corrosive, n.o.s. * (3-aminomethyl-3,5,5-trimethylcyclohexylamine, m-Xylene-a-a'-diamine) UN No 2735. Class 8. Packing group III. Packing instruction (passenger aircraft): 818 (5 L). Packing instruction (LQ): Y818 (1 L). Packing instruction (cargo aircraft): 820 (60 L).</p>

15. Regulatory information

Symbol(s)	<p>C - Corrosive. N - Dangerous for the environment.</p>
R-phrases(s)	<p>R34: Causes burns. R43: May cause sensitisation by skin contact. R20/21/22: Harmful by inhalation, in contact with skin and if swallowed. R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</p>
S-phrases(s)	<p>S1/2: Keep locked up and out of the reach of children. S24: Avoid contact with skin. S36/37/39: Wear suitable protective clothing, gloves and eye / face protection. S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S60: This material and its container must be disposed of as hazardous waste.</p>

Hazardous components which must be listed on the label

Benzyl alcohol, CAS-No. 100-51-6, EC-No. 202-859-9
3-aminomethyl-3,5,5-trimethylcyclohexylamine, CAS-No. 2855-13-2, EC-No. 220-666-8
nonylphenol, CAS-No. 25154-52-3, EC-No. 246-672-0
m-Xylene-a-a'-diamine, CAS-No. 1477-55-0, EC-No. 216-032-5

Regulatory Information

Classification according to EC directive.
VOC (CH) = 0%

16. Other information**Recommended use**

For industrial application only.

Text of R phrases mentioned in Section 3

R22: Harmful if swallowed.
R34: Causes burns.
R43: May cause sensitisation by skin contact.
R62: Possible risk of impaired fertility.
R63: Possible risk of harm to the unborn child.
R21/22: Harmful in contact with skin and if swallowed.
R20/22: Harmful by inhalation and if swallowed.
R50/53: Very toxic to aquatic organisms, may cause long-term effects in the aquatic environment.
R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Further information

Take notice of the directions of use on the label.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.