

Safety Data Sheet

EpoxyLite TSA 220

Safety Data Sheet dated 5/3/2008, version 1, #3350



1. DESIGNATION OF PRODUCT AND COMPANY

Trade name	EpoxyLite TSA 220
Chemical description:	One component epoxy resin.
Supplier:	Elantas Camattini spa - Via Antolini 1 - 43044 Collecchio (PR) www.elantas.com ; info.elantas.camattini@altana.com
Emergency telephone number:	0039/521/304711 fax 0039/521/804679 - 804410
Competent person responsible for the safety data sheet:	MSDS.elantas.camattini@altana.com

2. HAZARDS IDENTIFICATION

When brought into contact with the eyes, the product causes irritation that may last for over 24 hours, and upon brought into contact with the skin it causes inflammation if it is not removed immediately.

If brought into contact with the skin, the product may cause sensitisation of the skin.

This product is a threat to the environment; it is toxic for aquatic organisms following acute exposure.

In the long term this product may have negative effects on the aquatic environment, because it is not easily biodegradable and/or bioaccumulable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components under the EEC directive 67/548 or components for which European Community exposure values exists:

50% - 75% Epoxy resin. Reaction product from Bisphenol F-Epichlorohydrin.

CAS: 9003-36-5

Xi,N; R36/38-43-51-53

20% - 30% Epoxy resin. Reaction product from Bisphenol F-Epichlorohydrin.

CAS: 28064-14-4

Xi,N; R51-53-36/38-43

10% - 20% 1,4-bis(2,3 epoxypropoxy)butane

N.67/548/EEC: 603-072-00-7 CAS: 2425-79-8 EC: 219-371-7

Xn,Xi; R20/21-36/38-43

4. FIRST-AID MEASURES

Contact with skin:

Immediately take off all contaminated clothing.

Remove the product with a cloth or absorbent paper. Do not use solvents.

Wash with plenty of water and soap.

Contact with eyes:

Wash immediately and thoroughly with running water, keeping eyelids raised, for at least 10 minutes. Following this, protect the eyes with sterile gauze or a clean, dry, handkerchief. Seek medical advice.

Swallowing:

The induction of vomiting and the administration of oral drugs must be carried out only upon medical council.

Inhalation:

Ventilate the premises. The patient is to be removed immediately from the premises contaminated and made to rest in a well ventilated area. Should the patient feel unwell, consult a physician.

5. FIRE FIGHTING MEASURES

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Recommended extinguishers:

CO₂, Foam, Chemical powders or sand. Use water based extinguishing media with caution.

Extinguishers not to be used:

None in particular.

Risks arising from combustion:

Avoid inhaling the fumes. Incomplete combustion releases toxic gases.

Protective equipment:

Use protection for the airways.

6. MEASURES IN CASE OF ACCIDENTAL RELEASE

Measures for personal safety:

Use a mask, gloves and protective clothing.

Environmental measures:

Limit leakages with earth or sand.

If the product has flown off into a water course, into the drainage system, or has contaminated the ground or vegetation, notify the responsible authorities.

Cleaning methods:

Rapidly collect the product. To do so, wear a mask and protective clothing.

If the product is in a liquid form, stop it from entering the drainage system.

Recover the product for re-use if possible, or for elimination in compliance with waste disposal regulations in force. The product might, where appropriate, be absorbed by inert material.

After the product has been removed, rinse the involved area and materials with water that must be disposed in compliance with regulations in force.

7. HANDLING AND STORAGE

Handling precautions:

Avoid contact with and inhalation of vapours and/or dusts. See also paragraph 8 below.

Do not eat or drink or smoke while working. Wash hands before breaks and at the end of work. Maintain a sufficient personal care.

Incompatible materials:

Keep away from amines, strong bases, acids and strong oxidants.

Storage conditions:

Keep in a dry place, in the original containers tightly closed and avoid heat sources.

Instructions regarding storage facilities:

Stock at controlled temperature ($T < 25^{\circ}\text{C}$)

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Precautionary measures:

Provide adequate ventilation to the areas where the product is stored and/or handled.

Respiratory protection:

Required where ventilation/aspiration is insufficient or exposure is prolonged, or for applications in which the product is sprayed or heated.

Protection for hands:

Use protective gloves.

For an extended exposure of the product, wear nitrile/neoprene gloves.

Eye protection:

Safety goggles.

Protection for skin:

Use clothing that provides complete protection to the skin.

Available Exposure Limits (ACGIH) for substances of section 2:

None

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and colour: Pale yellow liquid

Odour: Light

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pH:	n.d.
Melting point:	N.A.
Boiling point:	> 200 °C
Flash point:	> 150 °C (DIN 51758)
Explosive properties:	n.a.
Combustion-related properties:	n.a.
Vapour pressure:	N.A.
Specific gravity ASTM D 1475:	1.18 gr/ml (25°C)
Solubility in water:	Insoluble
Lipid solubility:	N.A.
Partition coefficient (n-octanol/H ₂ O) :	n.d.
Dynamic viscosity EN13702-2:	750 - 1750 mPa.s (25°C)
Vapour density:	N.A.

10. STABILITY AND REACTIVITY

Conditions to avoid:

Stable under normal conditions.

Substances to avoid:

The product reacts exothermically with amines, Lewis acids and mercaptanes.

Hazardous decomposition products:

It may catch fire on contact with powerful oxidising agents.

11. TOXICOLOGICAL INFORMATION

No toxicological data related to the preparation are available.

When available, the toxicological information relating to the main components are listed below.

Epoxy resin. Reaction product from Bisphenol F-Epichlorohydrin.

LD50 (oral): > 2.000 mg/kg (rat)

LD50 (dermal): > 2.000 mg/kg (rabbit)

12. ECOLOGICAL INFORMATION

Adopt sound working practices, so that the product is not released into the environment.

When available, the toxicological information relating to the main components are listed below.

Epoxy resin. Reaction product from Bisphenol F-Epichlorohydrin.

Sinks in water. Expected to be not readily biodegradable. Has the potential to bioaccumulate.

If product enters soil, it will be mobile and may contaminate groundwater.

Acute toxicity LC/EC/IC 50 = 1-10 mg/l

13. DISPOSAL CONSIDERATIONS

Recover if possible. In doing so, comply with the local and national regulations currently in force.

14. TRANSPORT INFORMATION

UN number:	3082
Proper shipping name:	SOSTANZA PERICOLOSA PER L'AMBIENTE, LIQUIDA, NAS (Resina epossidica)/ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, NOS (Epoxy resin)
Road/Rail (ADR/RID):	9 III
Sea (IMDG):	9 III
Sea (EmS):	F-A , S-F
Air (ICAO/IATA):	9-III

15. REGULATORY INFORMATION

Council Directive 67/548/EEC (Classification, packaging and labelling of dangerous substances) and subsequent amendments. Commission Directive 1999/45/EC (Classification, packaging and labelling of dangerous preparation) and subsequent amendments. Commission Directive 98/24/EC (Protection of the health and safety of workers from the risk related to chemical agent). Commission

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Directive 2000/39/EC (Occupational exposure limit values). Regulation (EC) No 1907/2006 (REACH).

Symbols:

Xi Irritant

N Dangerous for the environment

R Phrases:

R36/38 Irritating to eyes and skin.

R43 May cause sensitization by skin contact.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S Phrases:

S24/25 Avoid contact with skin and eyes.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37 Wear suitable gloves.

S57 Use appropriate container to avoid environmental contamination.

S60 This material and its container must be disposed of as hazardous waste.

S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

Contents:

Epoxy resin. Reaction product from Bisphenol F-Epichlorohydrin.

Epoxy resin. Reaction product from Bisphenol F-Epichlorohydrin.

1,4-bis(2,3 epoxypropoxy)butane

Where applicable, refer to the following regulatory provisions :

Directive 98/24/CE

Directive 91/156/EC; 91/689/EC; 94/62/EC (waste disposal).

Activities linked to risks of serious accidents

16. OTHER INFORMATION

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

R36/38 Irritating to eyes and skin.

R43 May cause sensitization by skin contact.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Main bibliographic sources:

NIOSH - Registry of toxic effects of chemical substances

I.N.R.S. - Fiche Toxicologique

ACGIH - Threshold Limit Values

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific intended use.

This MSDS cancels and replaces any previous releases.

The information contained herein is based on what we believe to be reliable data, but it is presented without guarantee or warranty by our part and Elantas Camattini spa disclaims any liability incurred from the use thereof.

Nothing contained herein is to be construed as recommendations for use in violation of any existing patent, foreign or domestic, or of applicable laws and regulations.

Please contact Elantas Camattini spa for further information about the product and its use.

It is recommended to give this MSDS to customers and handlers.