



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

Identification of the substance or preparation

TIP TOP TOPLINE 505 M

Art.-No.:

590 0360

Use of the substance/preparation

Laminate coat

Company/undertaking identification

TIP TOP Oberflächenschutz Elbe GmbH

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Responsible Department

Emergency telephone : ++49 (0) 6132 / 84463 (GBK Gefahrgut Buero GmbH, Ingelheim)

Responsible for the safety data sheet: sds@gbk-ingelheim.de

2. Hazards identification

Classification

Indications of danger : Irritant, Dangerous for the environment

R-phrases :

Irritating to eyes and skin.

May cause sensitization by skin contact.

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

3. Composition/information on ingredients

Chemical characterization (Mixture)

Epoxy resin based on bisphenol A and epichlorhydrine (number average molecular weight <= 700)

Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity	Classification
500-033-5	25068-38-6	Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)	< 100 %	Xi, N R36/38-43-51-53

Full text of each relevant R phrase can be found in heading 16.

4. First aid measures

General information

Remove contaminated soaked clothing immediately.

In the event of persistent symptoms receive medical treatment.

After inhalation

Move to fresh air in case of accidental inhalation of vapours or decomposition products.

In the event of symptoms refer for medical treatment.

After contact with skin

Wash off immediately with soap and plenty of water.

Consult a doctor if skin irritation persists.



After contact with eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Seek medical treatment by eye specialist.

After ingestion

Induce vomiting only upon the advice of a physician.

Never give anything by mouth to an unconscious person.

Summon a doctor immediately.

5. Fire-fighting measures

Suitable extinguishing media

Foam, carbon dioxide (CO₂), dry chemical, water-spray.

Extinguishing media which must not be used for safety reasons

Full water jet

Special exposure hazards arising from substance or preparation itself, combustion products, resulting gases

Fire may produce:

Carbon monoxide and carbon dioxide.

Phenoles

Special protective equipment for fire-fighters

Use breathing apparatus with independent air supply.

Protective suit

Additional information

Cool containers at risk with water spray jet.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

6. Accidental release measures

Personal precautions

In case of vapour formation use respirator.

Ensure adequate ventilation.

Use personal protective clothing.

Environmental precautions

Clean contaminated surface thoroughly.

Do not discharge into the drains/surface waters/groundwater.

Methods for cleaning up/taking up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).

Shovel into suitable container for disposal.

7. Handling and storage

Handling

Advice on safe handling

Keep container tightly closed.

Use only in thoroughly ventilated areas.

Avoid contact with skin, eyes and clothing.

Advice on protection against fire and explosion

No special protective measures against fire required.

Storage



Requirements for storage rooms and vessels

Keep container tightly closed in a dry, cool and well-ventilated place.
Protect against direct sun radiation.

Advice on storage compatibility

Incompatible with:
Oxidizing agents, Amines, Acids and bases.

Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

Storageclass (VCI) 10

8. Exposure controls/personal protection

Exposure limit values

Exposure controls

Occupational exposure controls

Ensure adequate ventilation, especially in confined areas.

Protective and hygiene measures

Do not inhale vapours.
Wash hands before breaks and immediately after handling the product.
When using, do not eat, drink or smoke.
Avoid contact with skin, eyes and clothing.
Remove and wash contaminated clothes before re-use.

Respiratory protection

No personal respiratory protective equipment normally required.
In case of insufficient ventilation wear suitable respiratory equipment (gas filter type A).

Hand protection

Chemical protective glove made of nitrile, nitrile/cotton, butyl or neoprene, with a minimum thickness of 0.7 mm, permeation time of approx. 480 minutes.
This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.
Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.
Pls. find examples in the protective gloves database under: <http://bestglove.com/site/chemrest/>

Eye protection

Eye wash bottle with pure water.
Tightly fitting goggles

Skin protection

Long sleeved clothing.

9. Physical and chemical properties

General information

Physical state	Liquid
Colour	Colourless - yellowish
Odour	Slight of epoxy

Important health, safety and environmental information

Test method

Changes in the physical state



Melting point	-15 -- 5 °C	
Flash point	252 °C	PMCC
Flammability		
Lower explosion limits	n.d.	
Ignition temperature	> 300 °C	
Density (at 20 °C) :	1,14 - 1,18 g/cm ³	
Water solubility :	Immiscible	
at (20 °C)		
Partition coefficient	2,8 (Calculated)	
Viscosity / dynamic :	1200 - 1800 mPa·s	
at (25 °C)		

10. Stability and reactivity

Conditions to avoid

To avoid thermal decomposition, do not overheat.

Protect against direct sun radiation.

Materials to avoid

Strong oxidizing agents., Amines, Acids and bases

Hazardous decomposition products

Carbon monoxide and carbon dioxide.

Phenol

Additional information

No decomposition if stored and applied as directed.

11. Toxicological information

Empirical data on effects on humans

Sensitization through skin contact possible.

Irritating to eyes and skin.

12. Ecological information

Further information

Do not flush into surface water or sanitary sewer system.

Hazard to waters

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

Not readily biodegradable.

13. Disposal considerations

Advice on disposal

Can be incinerated, when in compliance with local regulations.

Where possible recycling is preferred to disposal.

Waste disposal number of waste from residues/unused products



080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other dangerous substances
Classified as hazardous waste.

Contaminated packaging

Contaminated packagings are to be treated like the product itself.

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Packaging that cannot be cleaned should be disposed of like the product.

14. Transport information

Land transport (ADR/RID)

ADR/RID class	9
Classification code :	M6
Hazard-no.	90
UN number	3082
Hazard label	9
ADR/RID packing group	III
Limited quantity	LQ 7

Description of the goods

Environmentally hazardous substance, liquid, n.o.s. (Epoxy resin)

Other applicable information (land transport)

LQ 7: combination packaging: 5 l / 30 kg (total gross mass); trays: 5 l / 20 kg (total gross mass).

Tunnel restriction code: E

Transport category: 3

Additional label with symbol "fish and tree" according to subsection 5.2.1.8.3. ADR for single packagings and inner packagings with > 5 kg or 5 L.

Inland waterways transport

Marine transport

IMDG code	9
UN number	3082
Marine pollutant	No
EmS	F-A, S-F
IMDG packing group	III
Limited quantity :	5 L / 30 kg
Hazard label	9

Description of the goods

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin)

Other applicable information (marine transport)

Limited quantities (section 3.4): combination packaging: 5 l / 30 kg (total gross mass); trays: 5 l / 20 kg (total gross mass).

Additional label with symbol "fish and tree" according to subsection 5.2.1. IMDG Code for single packagings and inner packagings with > 5 kg or 5 L, transition period ends 31.12.2009.

Air transport

ICAO/IATA-DGR	9
UN/ID number	3082
Hazard label	9



IATA-packing instructions - Passenger	914
IATA-max. quantity - Passenger	450 L
IATA-packing instructions - Cargo	914
IATA-max. quantity - Cargo	450 L
ICAO packing group	III
Limited quantity Passenger	Y914 / 30 kg

Description of the goods

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin)

Other applicable information (air transport)

Additional label with symbol "fish and tree" according to subsection 7.1.6.3. IATA/DGR for single packagings and inner packagings with > 5 kg or 5 L.

15. Regulatory information

Labelling

Additional advice on labelling According to EC-regulations the product is to be labelled as follows:

Indication of danger Xi - Irritant; N - Dangerous for the environment

Hazardous component(s) to be indicated on label

Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)

R phrases

- 36/38 Irritating to eyes and skin.
43 May cause sensitization by skin contact.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S phrases

- 24/25 Avoid contact with skin and eyes.
28 After contact with skin, wash immediately with plenty of water and soap.
35 This material and its container must be disposed of in a safe way.
37/39 Wear suitable gloves and eye/face protection.
61 Avoid release to the environment. Refer to special instructions / Safety data sheets.

Special labelling for certain preparations

Contains epoxy constituents. See information supplied by the manufacturer.

National regulatory information

Employment restrictions Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing.
Water contaminating class (D) 2 - water contaminating
1999/13/EC (VOC) 0 %

16. Other information

Full text of R-phrases referred to under sections 2 and 3

- 36/38 Irritating to eyes and skin.
43 May cause sensitization by skin contact.
51 Toxic to aquatic organisms.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
53 May cause long-term adverse effects in the aquatic environment.



Further Information

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product (s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

"(n.a. = not applicable; n.d. = not determined)"

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)