TIP TOP Oberflaechenschutz Elbe GmbH

Revision date: 21.05.2010
TIP TOP COROGARD 615 A

00359-1054

Revision no.: 1,02



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

Identification of the substance or preparation

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Art.-No.:

590 1049, 590 1094, 590 1100, 590 1111, 590 1190, 590 1290, 590 1610, 590 1630, 590 1660, 590 1670, 590 1680

Use of the substance/preparation

Coating material

Company/undertaking identification

TIP TOP Oberflaechenschutz Elbe GmbH

Heuweg 4

D-06886 Wittenberg

Telephone ++49(0)3491/635-50 Telefax ++49(0)3491/635-552

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: Highly flammable, Irritant, Dangerous for the environment

R-phrases:

Highly flammable.

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 formulation, contains solvents

Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity	Classification
500-108-2		Reaction product: bisphenol-F-epichlorine hydrine resins with average molecular weight <= 700	< 75 %	Xi, N R36/38-43-51-53
203-550-1	108-10-1	4-Methylpentan-2-one	< 10 %	F, Xn, Xi R11-20-36/37-66

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.

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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.

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Seek medical treatment by eye specialist.

After ingestion

Induce vomiting only upon the advice of a physician.

Immediately give plenty of water (if possible charcoal slurry).

Never give anything by mouth to an unconscious person.

Summon a doctor immediately.

5. Fire-fighting measures

Suitable extinguishing media

Alcohol-resistant foam, dry chemical, carbon dioxide (CO2), 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.

Special protective equipment for fire-fighters

Use breathing apparatus with independent air supply.

Protective suit.

Additional information

Vapours are heavier than air and spread along ground.

The vapour/air mixture is explosive, even in empty, uncleaned receptacles.

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

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Keep container tightly closed.

Use only in thoroughly ventilated areas.

Avoid contact with skin, eyes and clothing.

Advice on protection against fire and explosion

Do not smoke - volatile.

Keep away from open flames, hot surfaces and sources of ignition.

The product is easy combustible.

Take precautionary measures against static discharges.

Storage

Requirements for storage rooms and vessels

Keep container tightly closed in a dry, cool and well-ventilated place.

Pay attention to anti-explosion rules.

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.

8. Exposure controls/personal protection

Exposure limit values

Exposure limits (EH40)

CAS-No.	Chemical name	ml/m³	mg/m³	F/ml	Category	Origin
108-10-1	4-Methylpentan-2-one	50	208		TWA (8 h)	WEL
	4-Methylpentan-2-one	100	416		STEL (15 min)	WEL

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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

In case of insufficient ventilation wear suitable respiratory equipment (gas filter type A).

Hand protection

Chemical protective gloves 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.

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REMA INTP

Skin protection

Long sleeved clothing.

9. Physical and chemical properties

General information

Physical state Viscous liquid Colour Various
Odour Like ketone

Important health, safety and environmental information

Test method

Changes in the physical state

Flash point 17 °C

Flammability

Lower explosion limits n.d.

Ignition temperature n.d.

Density (at 20 °C): 1,1 - 1,2 g/cm³

Water solubility: Immiscible

at (20 °C)

Viscosity / dynamic: 4300 - 5300 mPa·s

at (25 °C)

Flow time : > 40 s 6 DIN/ISO 2431

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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

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.

Inhalation of vapours in high concentration can cause narcotic effects.

12. Ecological information

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Further information

Do not flush into surface water or sanitary sewer system.

Hazardous water pollutant.

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

Not readily biodegradable.

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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
 3

 Classification code :
 F1

 Hazard-no.
 33

 UN number
 1866

 Hazard label
 3

 ADR/RID packing group
 III

 Limited quantity
 LQ 7

Description of the goods

Resin solution

Other applicable information (land transport)

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

Tunnel restriction code: D/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, transition period ends 31.12.2010.

Inland waterways transport

Marine transport

 IMDG code
 3

 UN number
 1866

 Marine pollutant
 No

 EmS
 F-E; S-E

 IMDG packing group
 III

Limited quantity: 5 L / 30 kg

Hazard label 3

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Description of the goods

RESIN SOLUTION

Other applicable information (marine transport)

Receptacle max. 30 L, IMDG Code subsection 2.3.2.3

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.

Air transport

ICAO/IATA-DGR 3 UN/ID number 1866 Hazard label 3 IATA-packing instructions - Passenger 309 IATA-max. quantity - Passenger 30 L IATA-packing instructions - Cargo 310 IATA-max. quantity - Cargo 30 L ICAO packing group Ш

Limited quantity Passenger Y 309 / 10 L

Description of the goods

RESIN SOLUTION

Other applicable information (air transport)

*) [3.3.3.1 IATA DGR]

15. Regulatory information

Labelling

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

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

Hazardous components which must be listed on the label

Reaction product: bisphenol-F-epichlorine hydrine resins with average molecular weight <= 700

R phrases

11 Highly flammable.

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

16 Keep away from sources of ignition - No smoking.

After contact with skin, wash immediately with plenty of water and soap.

This material and its container must be disposed of in a safe way.

1111s material and its container must be disposed of in a safe

37/39 Wear suitable gloves and eye/face protection.

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) < 9 %; < 106 g/l

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16. Other information

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

Highly flammable.Harmful by inhalation.

36/37 Irritating to eyes and respiratory system.

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.

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May cause long-term adverse effects in the aquatic environment.

66 Repeated exposure may cause skin dryness or cracking.

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.)

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