



Identification of the substance:

Product information

Trade name : Elgood Epoxy Floor Coating.
Company : Elgood Industrial Flooring Ltd
29 Mulberry Court
Bourne Road Industrial Park
Crayford
DA1 4BF
Telephone : 01322 552 030
Fax : 01322 552 033

2. Composition / Information on Ingredients

Chemical nature

Modified epoxy resin preparation.

Hazardous components

Chemical name	CAS – No	Symbol(s):	R-phrase(s)	Concentration %
Glycidylether of C12-C14 alcohols	68609-97-2	Xi, N	R36/38 R43 R51/53	5.00 – 15.00
Reaction product: bisphenol A- (epichlorhydrin); epoxy resin (number average molecular weight < 700)	25068-38-6	Xi, N	R36/38 R43 R51/53	50.00 – 75.00
Bisphenol F-epoxy resin	9003-36-5	Xi, N	R36/38 R43 R51/53	– 20.00

3. Hazards Identification

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.

4. First Aid Measures

Inhalation : Move to fresh air. If symptoms persist, call a physician
Eye Contact : Rinse Immediately with plenty of water for at least 15 minutes. If eye irritation persists, consult a specialist.
Skin Contact : Wash off with soap and plenty of water. If Skin irritation persists, call a physician
Ingestion : Immediately give plenty of water (if possible charcoal slurry). If a person vomits when lying on his back, place him in the recovery position. Oxygen or artificial respiration if needed. Do not induce vomiting.

5. Fire-Fighting Measures

Suitable extinguishing media : Water Spray, Carbon dioxide (CO₂), Foam, Dry Powder.
Extinguishing media which must not be used for safety reasons : High volume water jet.
Special protective Equipment for fire-fighters : Wear self- contained breathing apparatus and protective suit.
Further information : Burning produces obnoxious and toxic fumes. Carbon oxides.



6. Accidental Release Measures.

- Personal precautions : Keep away from sources of ignition – No smoking. Avoid contact with skin, eyes and clothing. Do not breathe vapours/dust.
- Environmental precautions : Prevent product from entering drains. Do not contaminate surface water. Avoid subsoil penetration.
- Methods for cleaning up : Soak up with inert absorbent material and dispose of as hazardous waste.

7. Handling and Storage

Handling

- Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms. Ensure adequate ventilation. Handle and open the container with care.

Storage

Further information on storage conditions:

- Keep away from food, drink and animal feeding stuffs.
Keep container tightly closed.
Keep at temperatures between 2 and 40°C
Storage hazard class: Environmentally hazardous liquids.

8. Exposure controls / Personal Protection

Components with workplace control parameters.

Components	CAS-No	Control parameters	Update	Basis
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Personal Protective Equipment

- Eye protection : Tightly fitting safety goggles or safety glasses.
- Hand protection : rubber or plastic gloves
- Skin and body protection : Protective work clothing and safety shoes.
- Protective measures : Keep away from sources of ignition – No smoking. Avoid contact with skin, eyes and clothing.

9. Physical and Chemical Properties

- Form : liquid
- Colour : colourless
- Odour : slight
- Boiling point : >200°C at 1,013 hPa
- Thermal decomposition : >200°C
- Flash Point: APPROX. 130°C. Method : DIN 51758 (Pensky-Martens Closed Cup)
- Vapour pressure : <0.001 Pa at 20°C
- Density : 1.13 g/cm³ at 20°C. Method : DIN 51757
- Water Solubility : at 20°C. Note: practically insoluble.
- Miscibility with Water : immiscible
- Viscosity, dynamic : 800 – 1,100 mPa.s at 25°C

10. Stability and Reactivity

Conditions to avoid:

- Note : Take necessary precautions to avoid static electricity discharge.
- Materials to avoid : Strong acids and strong bases. Strong oxidising agents.
- Hazardous decomposition products : Carbon oxides. Burning produces obnoxious and toxic fumes.

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11. Toxicological Information

Acute oral toxicity : LD50 rat. Dose: >5,000 mg/kg
Acute dermal toxicity : LD50 rat. Dose: >2,000 mg/kg
Eye irritation : irritating. Dermal test.
Sensitization : Causes sensitization. Dermal test.

12. Ecological Information

Ecotoxicity effects

Further information on ecology

Additional ecological information: Avoid subsoil preparation. Prevent product from entering drains. Do not contaminate surface water.

13. Disposal considerations.

Product : Waste Key Number: 070208 Must be incinerated, when in compliance with local regulations.
Container : Empty containers can be land filled after cleaning, when in compliance with the Environmental protection (Duty of Care) Regulations 1991.

14. Transport Information

Land transport

ADR:
UN-No : 3082
Class : 9
Item : 11c
Risk No. : 90
ADR/RID-Labels : Environmentally Hazardous substance, liquid, NOS
Contains : Pigmented Bisphenol A Epoxy Resin
RID:
UN-No : 3082
Class : 9
Item : 11c
Risk No : 90
ADR/RID-Labels : 9
Proper shipping name : Environmentally Hazardous Substance, Liquid, NOS
Contains : Pigmented Bisphenol A Epoxy Resin

Sea Transport

IMDG:
Regulation: Not dangerous goods

Air Transport

IATA-DGR:
UN/ID No. : UN 3082
Class : 9
Packaging Group : III
Packing instruction (cargo aircraft):
ADR/RID – Labels : 9
Proper Shipping name: Environmentally Hazardous substance, liquid, N.O.S.
Contains : (Bisphenol A Epoxy Resin.

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15. Regulatory Information

Labelling according to EEC Directive

Labelling required

Symbol(s)

Xi

Irritant

N

Dangerous for the environment.

R- phrase(s)

: 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- Phrase(s):

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

S28 After contact with skin, wash immediately with plenty of soap and water

S37/39 Wear suitable gloves and eye/face protection

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

Exceptional labelling of special preparations: Contains Epoxy constituents.

Hazardous components which must be listed on the label: glycidylether of C12-C14 alcohols.

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

National legislation

Notification status

TSCA yes

EINECS yes

DSL yes

AICS yes

JEX (JP) yes

KECI (KR) yes

16. Other Information.

The provision of Safety Data Sheets comes under Regulation 6 CHIP (CHIP is the recognised abbreviation for the chemicals Hazard Information and Packaging Regulations). This is an addition to the Health and Safety at Work Act 1974,

Users of the Epoxy resin coating should take appropriate measures to ensure working practises are in accordance with the Control of Substances Hazardous to Health Regulations (COSHH).

All information is based on results gained from experience and tests and is believed to be accurate but is given without acceptance of liability for loss or damage attributable to reliance thereon as conditions of use lie outside our control.

Identification of the substance:

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Product information

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Company : Elgood Industrial Flooring Ltd
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DA1 4BF
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2. Composition / Information on Ingredients

Chemical nature

Aliphatic Amines

1.247-134-825620-58-0	Trimethylhexamethylenediamine	>25%
Classification	: C; R22 R35 R43 R52/53	
2.202-679-098-54-4	Paratertiarybutylphenol	<50%
Classification	: XI; R36/37/38	
3.216-032-51477-55-0	Benzene-1, 3-Dimethanamine	<30%
Classification	: C;R20/22 R35	

3. Hazards Identification

Harmful to aquatic organisms; may cause long-term adverse effects in the aquatic environment (R52/53). May cause sensitization by skin contact (R43). Causes burns(R34). Harmful by inhalation and if swallowed(R20/22).

Signs and Symptoms of Exposure (Acute effects)

Product vapour in low concentrations can cause lacrimation, conjunctivitis and corneal edema when absorbed into the tissue of the eye from the atmosphere. Burns of the eye may cause blindness. Contact of undiluted product with the eyes or skin quickly causes severe irritation and pain and may cause burns, necrosis and permanent injury.

Inhalation of vapours may severely damage contacted tissue and produce scarring. Inhalation of vapours may cause cyanosis, lethargy, loss of consciousness and death. Inhalation of aerosols and mists may severely damage contacted tissue and produce scarring.

Product is absorbed through the skin and may cause nausea, headache and general discomfort.

Signs and Symptoms of Exposure (Possible Longer Term Effects)

Repeated and/or prolonged exposure may cause allergic reaction/sensitization. Repeated and/or prolonged exposures may result in: adverse respiratory effects (such as cough, tightness of chest or shortness of breath), adverse eye effects (such as conjunctivitis or corneal damage), adverse skin effects (such as rash, irritation or corrosion).

Effects from inhalation of vapours may be delayed. Repeated and/or prolonged exposure to low concentrations of vapour may cause: sore throat, loss of consciousness which are transient.

Repeated and/or prolonged exposure to low concentrations of vapour may cause: death.

4. First Aid Measures

Inhalation: Move patient to fresh air. If breathing has stopped or is labored give assisted respiration (e.g. mouth-to-mouth). Supplemental oxygen may be indicated. Seek medical advice. Prevent aspiration of vomit. Turn victim's head to the side.

Eye Contact: Hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Seek medical advice.

Skin Contact: Remove contaminated clothing and shoes. Remove product and immediately

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flush affected area with water for at least 15 minutes. Destroy contaminated leather apparel. Cover the affected area with a sterile dressing or clean sheeting and transport for medical care. Do not apply greases or ointments. Control shock, if present. Launder contaminated clothing prior to use.

Ingestion: In the event of ingestion, administer 3-4 glasses of milk or water. Do not induce vomiting! Seek medical advice.

5. Fire-Fighting Measures

Ignition will give rise to a Class B fire. In case of large fire use: water spray, alcohol foam. In case of small fire use: carbon dioxide (CO2), dry chemical, dry sand or limestone.

Special Exposure Hazards (Fire Fighting)

May generate toxic, irritating or flammable combustion products.
 Contact of liquid with skin must be prevented.
 Sudden reaction and fire may result if product is mixed with an oxidising agent.
 May generate carbon monoxide gas. May generate toxic nitrogen oxide gases. May generate ammonia gas. Personnel in vicinity and downwind should be evacuated.

Special Fire Fighting Procedures.

A face shield should be worn. Fire fighters should wear butyl rubber boots, gloves, and body suit and a self-contained breathing apparatus
 Retain expended liquids from fire fighting for later disposal.

6. Accidental Release Measures.

Precautions
 Open enclosed spaces to outside atmosphere. Wear protective clothing, boots, gloves, and eye protection.

Methods for Cleaning Up

If recovery is not feasible, admix with dry soil, sand or non-reactive absorbent and place in an appropriate chemical waste container. Transfer to containers by suction, preparatory for later disposal. Flush area with water spray. Clean-up personnel must be equipped with self contained breathing apparatus and butyl rubber protective clothing. For large spills, recover spilled material with a vacuum truck.

7. Handling and Storage

Handling

Avoid contact with skin or eyes. Avoid breathing of vapours. Handle in well ventilated work space. When handling, do not eat, drink, or smoke. Avoid using in any spray application without strictly conformance to all applicable electrical codes and the exposure limits for maximum allowable airborne concentrations.

Storage.

Keep away from: acids, oxidisers. Keep in cool, dry, ventilated storage and in closed containers. Store in steel containers preferably located outdoors, above ground, and surrounded by dikes to contain spills or leaks. Do not store in reactive metal containers.

8. Exposure Limits.

	TWA			STEL	CEILING	
	PPM	MG/M3	PPM	MG/M3	PPM	MG/M3
1. ACGIH	NE	NE	NE	NE	NE	NE
DK-TLV	NE	NE	NE	NE	NE	NE
EU-ILV	NE	NE	NE	NE	NE	NE
F-HTP	NE	NE	NE	NE	NE	NE
G-MAK	NE	NE	NE	NE	NE	NE
G-TRK	NE	NE	NE	NE	NE	NE
N-AN	NE	NE	NE	NE	NE	NE
SW-LLV	NE	NE	NE	NE	NE	NE
UK-MEL	NE	NE	NE	NE	NE	NE
UK-OES	NE	NE	NE	NE	NE	NE
2.ACGIH	NE	NE		NE	NE	NE

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DK-TLV	0.0800	0.5000	NE	NE	NE	NE Skin
EU-ILV	NE	NE	NE	NE	NE	NE
F-HTP	NE	NE	NE	NE	NE	NE
G-MAK	0.0800	0.5000	0.4000	2.5000	NE	NE
G-TRK	NE	NE	NE	NE	NE	NE
N-AN	NE	NE	NE	NE	NE	NE
SW-LLV	NE	NE	NE	NE	NE	NE
UK-MEL	NE	NE	NE	NE	NE	NE
UK-OES	NE	NE	NE	NE	NE	NE
3.ACGIH	NE	NE	NE	NE	NE	0.1000 skin
DK-TLV	NE	NE	NE	NE	0.0200	0.1000 skin
EU-ILV	NE	NE	NE	NE	NE	NE
F-HTP	NE	0.1000	NE	NE	NE	NE skin
G-MAK	NE	NE	NE	NE	NE	NE
G-TRK	NE	NE	NE	NE	NE	NE
N-AN	NE	NE	NE	NE	NE	0.1000
SW-LLV	NE	NE	NE	NE	NE	NE
UK-MEL	NE	NE	NE	NE	NE	NE
UK-OES	NE	NE	NE	NE	NE	NE

NE = Not Established.

Respiratory Protection.

Not required under normal conditions in a well ventilated work place. Under the following conditions a respirator may be required: when product vapour concentration exceeds the limits listed in Section 8, during repair and cleaning of equipment, during transfer or discharge of the product, sampling, spray applications. Types of respirators that may be used include the following: Chemical Cartridge Respirator with face piece to protect against the organic vapour, Supplied air respirator with full face piece (NIOSH Approved), Self-contained breathing apparatus in pressure demand mode. In emergency conditions use a self-contained breathing apparatus in pressure demand mode.

Hand Protection:

Neoprene rubber gloves. Impermeable gloves. Cuffed butyl rubber gloves. Nitrile rubber gloves. Polyvinyl Chloride Gloves (PVC). The breakthrough time of the selected glove(s) must be greater than the intended use period.

Eye Protection:

Safety goggles or glasses are recommended for mixing.

Skin Protection:

Impervious gloves, protective work clothing and shoes when mixing and applying the coating.

9. Physical and Chemical Properties.

Appearance:	Mobile liquid
Colour:	Amber
Odour:	Fishy
PH:	Alkaline
Boiling Point / Range:	230.00c (446.00 f)
Melting Point:	No data
Flash Point (closed cup):	>93.33 C (>199.99F)
Autoflammability:	No data
Upper Explosion Limit (UEL):	No data
Lower Explosion Limit (LEL):	No data
Vapour Pressure (mm Hg at 21C (70F)):	<10.34
Vapour density (Air = 1):	No data
Water solubility	<1.00%
Solubility in Ethanol	Completely (100%)

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Solubility in n-Octanol	>90.00%
Partition Coefficient: n-Octanol/water	No data
Viscosity (CPS)	
Relative Density	0.99

10. Stability and Reactivity.

Conditions to avoid.

Not applicable.

Incompatibility (Materials to avoid)

Mineral acids (i.e. sulfuric, phosphoric, etc.). Organic acids (i.e. acetic acid, citric acid etc.) Oxidising Agents (i.e. perchlorates, nitrates etc.) Reactive metals (i.e. sodium, calcium, zinc etc.). Sodium or Calcium Hypochlorite. CAUTION! N-Nitrosamines, many of which are known to be potent carcinogens, may be formed when the product comes into contact with nitrous acid, nitrites or atmosphere with high nitrous oxide concentrations. Product slowly corrodes copper, aluminium, zinc and galvanized surfaces. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion. Materials reactive with hydroxyl compounds. Nitrites, nitrosating agents. A reaction accompanied by large heat release occurs when the product is mixed with acids. Heat generated may be sufficient to cause vigorous boiling creating a hazard due to splashing or splattering of hot material.

11. Hazardous Decomposition Products

Nitrogen Oxide can react with water vapours to form corrosive nitric acid. Carbon Monoxide in a fire. Carbon Dioxide in a fire. Ammonia when heated. Nitrogen Oxides in a fire. Irritating and toxic fumes at elevated temperatures. Nitric acid in a fire. Nitrosamines. Aldehydes. The oxides of nitrogen gases (except nitrous oxide) EMITTED ON DECOMPOSITION ARE HIGHLY TOXIC.

Hazardous Polymerisation

Will not occur.

12. Toxicological Information.

Acute Oral Toxicity (LD50, RAT)	1750.00 mg/kg
Acute Dermal Toxicity (LD50 Rabbit)	>2000.00 mg/kg (No deaths) (Estimate)
Acute Inhalation Toxicity (LC50 Rabbit)	>700.00 ppm/ 1hr (No deaths) (Estimate)
Other data	No data
Irritation Effects Data	Corrosive to the skin of a rabbit
Chronic/Subchronic Data	No delayed, subchronic or chronic test data are known

Ecological Information

No data

13. Disposal Considerations

Dispose of in accordance with local and national regulations. For example, in the UK regulations made under the Control of Pollution Act 1974, and the Environmental Protection Act, 1990. Wear protective clothing during disposal operations. If disposal is by a waste contractor, make sure that he has sufficient information and that waste containers are properly labelled.

14. Transport Information

ADR/RID Shipping Data

2735 Amines, liquid, corrosive, n.o.s. (Benzene-1,3Dimethanamine/Trimethylhexamerhylenediamines), 8, 53(b)

IMO Shipping Data

Amines, liquid, corrosive, n.o.s. (Benzene-1,3Dimethanamine(MXDA)/Trimethylhexamerhylenediamines) // 8 // UN2735 // II // Marine Pollutant (Alkylphenols) // HazMat STCC =4935601 // EmS No: 8-05 // NAERG Guide No: 153

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ICAO/IATA Shipping Data

Amines, liquid, corrosive, n.o.s. (Benzene-1,3-Dimethanamine (MXDA) / Trimethylhexamethylenediamines) // 8 // UN2735 // II // Shipment per 49 CFR 171.11 // NAERG Guide No: 153

15. Regulatory Information

EEC Symbol Corrosive (C)

EEC Council Directives relating to the classification, packaging and labelling of dangerous substances and preparations Risk (R) and Safety (S) phrases.

Harmful to aquatic organisms; may cause long-term adverse effects in the aquatic environment (R52/53). May cause sensitization by skin contact (R43). Causes burns (R43). Harmful by inhalation and if swallowed (R20/22).

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice (S26). Wear suitable protective clothing, gloves and eye/face protection (S35/37/39). Avoid release to the environment. Refer to special instructions/Safety data sheet (S61). In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) (S45).

16. Other Regulatory Information

VbF = AIII

WGK = 3

EINECS/ELINCS Master Inventory Included on EINECS inventory or polymer substance; monomers included on EINECS inventory or no longer polymer.

CANADA Included on Inventory

TSCA All components are included in the EPA Toxic Substances Control. Act (TSCA) Chemical Substance Inventory.

AICS Included on inventory.

PHILIPPINES-PICCS Included on inventory.

JAPAN-MITI Included on inventory.

KOREA-ECL Included on inventory.

CHINA-SEPA Included on inventory.

Other Information.

Harmful by inhalation and if swallowed (R20/22).

Harmful if swallowed (R22).

Causes burns (R34).

Causes sever burns (R35).

Irritating to the eyes, respiratory system and skin (R36/37/38).

May cause sensitization by skin contact (R43).

Harmful to aquatic organisms; may cause long-term adverse effects in the aquatic environment (R52/53)

This Safety Data Sheet has been written to comply with Directives 2001/58/EC 9th the “Safety Data Sheet Directive” and 1999/45/EC (the “General Preparations Directive”).

Date Printed 31/05/2003

Revision Date May 2004

Reference 5

Product Code C2089U

Revision Notes None