

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING:

1.1 Product identifier

Product Name **Epoxy Paint WB – Resin**

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Resin.

1.3 Details of the supplier of the safety data sheet

Supplier Eli-Chem Resins UK Ltd
t/a FixMaster
212 Dunsfold Park
Canada Avenue
Cranleigh
Surrey
GU6 8GA
Tel: 01483 266636
sales@fixmaster.co.uk

1.4 Emergency telephone number

01483 266636 (Office Hours Only)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards	Not classified.
Human health	Skin irrit. 2 – H315; Eye irrit. 2 – H319; Skin Sens. 1 – H317
Environment	Aquatic Chronic 2 – H411

Classification (1999/45/EEC) Xi: R36/38, R43. N; R51/53.

The full text for all R-phrases and Hazard statements are displayed in Section 16.

2.2 Label elements

Contains BISPHENOL F TYPE EPOXY RESIN
EPOXY RESIN (Number average MW <= 700)
OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS

Label In Accordance With (EC) No. 1272/2008



Signal Word
Hazard Statements

Warning
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements

P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+351-338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P313 Get medical advice/attention.
P501 Dispose to licensed waste disposal site in accordance with local Waste Disposal Authority.

Supplemental label information

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash ... thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace. IF ON SKIN: Wash with plenty of soap and water.
P321 Specific treatment (see ... on this label).
P332+313 If skin irritation occurs: Get medical advice/attention.
P333+313 If skin irritation or rash occurs: Get medical advice/attention.
P337 If eye irritation persists:
P362 Take off contaminated clothing and wash before reuse.
P363 Wash contaminated clothing before reuse.
P391 Collect spillage.

Supplemental label information

EUH205 Contains epoxy constituents. May produce an allergic reaction.

2.3 Other hazards

Not Classified as PBT/vPvB by current EU criteria.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

BISPHENOL F TYPE EPOXY RESIN		15 – 17%
CAS-No.: 28064-14-4	EC No:	
Classification (EC 1272/2008) Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411	Classification 67/548/EEC R43 Xi; R36/38 N; R51/53	

--	--

EPOXY RESIN (Number average MW <= 700)		70 - 80%
CAS-No.: 25068-38-6 EC No: 500-033-5		
Classification (EC 1272/2008) Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Anuatic Chronic 2 - H411	Classification 67/548/EEC R43 Xi; R36/38 N; R51/53	

OXIRANE, MONO (C12-14- ALKYLOXY)METHYL) DERIVS		15 - 17%
CAS-No.: 68609-97-2 EC No:		
Classification (EC 1272/2008) Skin Irrit. 2 - H315 Skin Sens. 1 - H317	Classification 67/548/EEC R43 Xi; R36/38	

The full text for all R-phrases and hazard statements are displayed in Section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General information

CAUTION! First aid personnel must be aware of own risk during rescue! Consult a physician for specific advice.

Inhalation

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

Ingestion

DO NOT INDUCE VOMITING! Get medical attention immediately!

Skin contact

Remove contaminated clothing immediately and wash skin with soap and water: Get medical attention if any discomfort continues.

Eye contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention immediately. Continue to rinse.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation

May cause irritation to the respiratory system.

Ingestion

No specific symptoms noted.

Skin contact

Skin irritation. Allergic rash.

Eye contact

Irritating and may cause redness and pain.

4.3 Indication of any immediate medical attention and special treatment needed

Treat Symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Inhalation

May cause irritation to the respiratory system.

Ingestion

No specific symptoms noted.

Skin contact

Skin irritation. Allergic rash.

Eye contact

Irritating and may cause redness and pain.

5.2 Special hazards arising from the substance or mixture

Unusual Fire & Explosion Hazards

Heat may cause the containers to explode.

Specific hazards

In case of fire, toxic gases may be formed. Phenolic. Carbon monoxide (CO). Water.

5.3 Advice for firefighters

Special Fire Fighting Procedures

Move container from fire area if it can be done without risk. Water spray should be used to cool containers. Avoid water in straight hose stream; will scatter and spread fire. Keep run-off water out of sewers and water sources. Dike for water control. Dike and collect extinguishing water.

Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet. Do not smoke, use open fire or other sources of ignition. Avoid inhalation of vapours and contact with skin and eyes.

6.2 Environmental precautions

Avoid discharge into drains, water courses or onto the ground. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

6.3 Methods and material for containment and cleaning up

Absorb with sand or other inert absorbent. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

6.4 Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet. See section 11 for additional information on health hazards. Collect and dispose of spillage as indicated in section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Keep away from heat, sparks and open flame. Wear full protective clothing for prolonged exposure and/or high concentrations. Provide good ventilation. Avoid inhalation of vapours/spray and contact with skin and eyes. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site.

7.2 Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep away from food, drink and animal feeding stuffs. Keep away from heat, sparks and open flame.

7.2 Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Keep away from heat, sparks and open flame. Wear full protective clothing for prolonged exposure and/or high concentrations. Provide good ventilation. Avoid inhalation of vapours/spray and contact with skin and eyes. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site.

7.2 Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep away from food, drink and animal feeding stuffs.

Keep away from heat, sparks and open flame.

7.3 Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Ingredient Comments

No exposure limits noted for ingredient(s).

8.2 Exposure controls

Protective equipment



Engineering measures

Provide adequate general and local exhaust ventilation.

Respiratory equipment

In case of inadequate ventilation use suitable respirator.

Hand protection

Protective gloves are recommended. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

Eye protection

Wear goggles/face shield.

Other Protection

Provide eyewash station and safety shower.

Hygiene measures

Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash hands after contact.

Wash hands after handling.

Skin protection

Wear apron or protective clothing in case of contact.

Environmental Exposure Controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Liquid
Colour	Various colours
Odour	Mild
Solubility	Insoluble in water
Initial boiling point and boiling range (°C)	>200
Relative density	1.12 g/cm ³ 20°C
Evaporation rate	Not available
Viscosity	1200 mPa.s 20° C
Decomposition temperature (°C)	Not available
Odour threshold, lower	Not available
Odour threshold, upper	Not available
Flashpoint (°C)	> 150 CC (Closed cup)
Auto ignition temperature (°C)	Not determined
Flammability Limit – lower (%)	Not determined
Flammability Limit – upper (%)	Not determined
Partition Coefficient (N-Octanol/Water)	log Pow - 3.242 (CAS 25068-38-6) 3-5 (CAS 28064-14-4) 3.77 (CAS 68609-97-2)
Explosive properties	No data available

Oxidising properties Not available

9.2 Other Information

Not available. Not determined.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No specific reactivity hazards associated with this product.

10.2 Chemical stability

Stable under normal temperature conditions and recommended use.

10.3 Possibility of hazardous reactions

Hazardous Polymerisation

May polymerise.

Polymerisation Description

Avoid heat. Avoid contact with: Amines.

10.4 Conditions to avoid

Avoid heat, flames and other sources of ignition.

10.5 Incompatible materials

Material to avoid

Strong acids. Strong oxidizing substances. Amines. Strong alkalis.

10.6 Hazardous decomposition products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Phenolic. Water. Carbon monoxide (CO).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Toxic Dose 1 - LD 50

>2000 mg/kg (oral rat)

Other Health Effects

This substance has no evidence of carcinogenic properties.

Acute toxicity:

Acute Toxicity (Dermal LD50)

> 2000 mg/kg Rabbit
Acute Toxicity (Inhalation LC50)
Not determined.

Respiratory or skin sensitisation:

Skin sensitisation

Guinea Pig

Sensitising.

Germ cell mutagenicity:

Genotoxicity - In Vitro

Not available.

Genotoxicity - In Vivo

Not available.

Reproductive Toxicity:

Reproductive Toxicity - Fertility

Not available.

Does not contain any substances known to be toxic to reproduction.

Specific target organ toxicity - single exposure:

STOT - Single exposure

Not available.

Specific target organ toxicity - repeated exposure:

STOT - Repeated exposure

Not available.

Inhalation

May cause irritation to the respiratory system.

Ingestion

No specific health warnings noted.

Skin contact

Irritating to skin. May cause sensitization by skin contact.

Eye contact

Irritating to eyes.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

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

12.1 Toxicity

LG 50, 96 Hrs, Fish mg/l

(GAS 25068-38-6) 2 mg/l (GAS 68609-97-2) >5000 mg/l

EC 50, 48 Hrs. Daphnia, mg/l

(GAS 25068-38-6) 2 mg/l (GAS 68609-97-2) >5000 mg/l

Acute Toxicity - Aquatic Plants Not available.
Acute Toxicity – Microorganisms Not available.
Chronic Toxicity - Fish Early life Stage Not available.
Chronic Toxicity - Aquatic Invertebrates NOEC 21 days (GAS 25068-38-6) 0.3 mg/l Daphnia magna
Acute Toxicity – Terrestrial Not available.

12.2 Persistence and degradability

Degradability

The product is not readily biodegradable.

Biodegradation

Degradation (12%) (GAS 25068-38-6) 28 days

Degradation (87%) (GAS 68609-97-2) 28 days

12.3 Bioaccumulative potential

Bioaccumulation factor

BCF 160 (GAS 68609-97-2)

Partition coefficient

log Pow - 3.242 (CAS 25068-38-6) 3-5 (GAS 28064-14-4) 3.77 (GAS 68609-97-2)

12.4 Mobility in soil

Mobility:

No data available.

Absorption/desorption Coefficient

Soil Koc - 1, 800-4, 400 (GAS 25068-38-6) >5000 (GAS 68609-97-2)

12.5 Results of PBT and vPvB assessment

Not classified as PBT/vPvB by current EU criteria.

12.6 Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

General information

Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.

13.1 Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

SECTION 14: TRANSPORT INFORMATION

14.1 UN Number

UN No. (ADR/RID/ADN)	3082
UN No. (IMDG)	3082
UN No. (ICAO)	3082

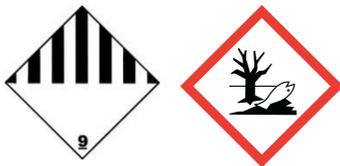
14.2 UN proper shipping name

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin)

14.3 Transport hazard class(es)

ADR/RID/ADN Class	9
ADR/RID/ADN Class	Class 9: Miscellaneous dangerous substances and articles.
ADR Label No.	9
IMDG Class	9
ICAO Class/Division	9

Transport labels



14.4 Packing group

ADR/RID/ADN Packing group	III
IMDG Packing group	III
ICAO Packing group	III

14.5 Environmental hazards

Environmentally Hazardous substance/marine pollutant



14.6 Special precautions for user

EMS F-A, S-F

Emergency Action Code 3Z
Hazard No. (ADR) 90
Tunnel Restriction Code (E)

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Uk Regulatory References

Health and Safety at Work Act 1974. The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments. Chemicals (Hazard Information & Packaging) Regulations.

Environmental Listing

Control of Pollution Act 1974. Rivers (Prevention of Pollution) Act 1961. Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.1 2009 No. 716). Control of Substances Hazardous to Health.

Approved Code Of Practice

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

Guidance Notes

CHIP for everyone HSG(108). Introduction to Local Exhaust Ventilation HS(G)37. Workplace Exposure Limits EH40.

EU Legislation

Dangerous Preparations Directive 1999/45/EC.

National Regulations

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. No. 1689. Workplace Exposure Limits 2005 (EH40)

Health and Safety at Work Act (As Amended) 1974

Control of Substances Hazardous to Health Regulations 2002 (as amended)

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Issued By HS & E Manager
Revision Date 21.11.13
Revision 10
Supersedes date 06.03.12
SDS No. 10013
Safety Data Sheet Status Approved

Risk Phrases In Full

R36/38	Irritating to eyes and skin.
R38	Irritating to skin.
R43	May cause sensitization by skin contact.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Hazard Statements In Full

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.

Disclaimer: This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING:

1.1 Product identifier

Product Name **Epoxy Paint WB – Curing Agent**

1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

Application of the substance / the mixture Hardening agent/ Curing agent

1.3 Details of the supplier of the safety data sheet

Supplier FixMaster
 212 Dunsfold Park
 Canada Avenue
 Cranleigh
 GU6 8GA
 Tel: 01483 266636
 sales@fixmaster.co.uk

1.4 Emergency telephone

Number 01483 266636 (Office hours only)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (EC 1272/2008)



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.

2.2 Label elements

Label In Accordance With (EC) No. 1272/2008

The product is classified according to the CLP regulation.

Hazard pictograms



GHS05

Signal word Danger

Hazard statements

H318 Causes serious eye damage.

Precautionary statements

P280a Wear protective gloves and eye/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTRE/doctor.

2.3 Other hazards

Severe eye irritant.

Mild respiratory tract irritant.

Mild skin irritant.

Risk of serious damage to eyes.

Corrosive to eyes.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture : Mixture

Components	EINECS/ELINCS Number	CAS Number	Concentration
Decanedioic acid, compds. w/1,3-benzeneimethanamine-bis a-deta glyc ph et rx prod-epic-form-propylene-oxide-teta pol	Not available	260549-92-6	40% - 70%

Components	Classification (CLP)	REACH Reg. #
Decanedioic acid, compds. w/1,3-benzeneimethanamine-bis a-deta glyc ph et rx prod-epic-form-propylene-oxide-teta pol	Eye Da. 1 ; H318	

If REACH registration numbers do not appear the substance is either exempt from registration, does not meet the minimum volume threshold for registration, or the registration date has not yet come due.

The full text for all R-phrases and hazard statements are displayed in Section 16.

CHEMICAL FAMILY: Polyamine Epoxy Resin Adduct Emulsion.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Seek medical advice. If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately.

Eye contact

Immediate medical attention is required. Rinse immediately with plenty of water also under the eyelids for at least 20 minutes. Remove contact lenses. Care should be taken not to rinse contaminated water into the unaffected eye. Rinse immediately with plenty of water also under the eyelids for at least 20 minutes. Remove contact lenses.

Skin contact

Take off contaminated clothing and shoes immediately. Wash contaminated clothing before re-use. Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Wash off immediately with plenty of water for at least 20 minutes. Immediately remove contaminated clothing, and any extraneous chemical, if possible without delay.

Ingestion

Never give anything by mouth to an unconscious person. If a person vomits when lying on his back, place him in the recovery position. Prevent aspiration of vomit. Turn victim's head to the side.

Inhalation

If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately. Move to fresh air.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms Repeated and/or prolonged exposure to low concentrations of vapours and/or aerosols may cause: Sore throat.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing agents: Alcohol-resistant foam. Carbon dioxide (CO₂), Dry Chemical, Dry Sand, Limestone Powder.

Extinguishing media which must not be used for safety reasons: No data available.

5.2 Special hazards arising from the substance or mixture

Incomplete combustion may form carbon monoxide. May generate ammonia gas. May generate toxic nitrogen oxide gases. Burning produces noxious and toxic fumes. Downwind personnel must be evacuated.

5.3 Advice for firefighters

Avoid contact with the skin. A face shield should be worn. Use personal protective equipment. Wear self-contained breathing apparatus for firefighting if necessary.

Additional information

Do not allow run-off from firefighting to enter drains or water courses. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear suitable protective clothing, gloves and eye/face protection. Use self-contained breathing apparatus and chemically protective clothing. Evacuate personnel to safe areas.

6.2 Environmental precautions

Try to prevent the material from entering drains or water courses. Do not flush into surface water or sanitary sewer system. Construct a dike to prevent spreading.

6.3 Methods and material for containment and cleaning up

Collect run-off water and transfer to drums or tanks for later disposal. Full face shield with goggles underneath. Contact Eli-Chem Resins UK Ltd for advice. Approach suspected leak areas with caution. Place in appropriate chemical waste container. Full face shield with goggles underneath. Open enclosed spaces to outside atmosphere. If possible, stop flow of product.

6.4 Reference to other sections

For more information refer to Sections 8 & 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Emergency showers and eye wash stations should be readily accessible. Adhere to work practice rules established by government regulations. Use only in well-ventilated areas. Avoid contact with eyes. Avoid breathing vapours and/or aerosols. Use personal protective equipment. When using, do not eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities

Product may partially freeze with extended exposure to cold temperatures, resulting in crystallization, haziness or separation. If this occurs, product should be warmed to 100 – 140°F (38 - 60°C) for one hour and stirred until clear. Do not store near acids. Keep containers tightly closed in a dry, cool and well-ventilated place.

7.3 Specific end use(s)

Refer to Section 1.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.2 Exposure controls

Engineering measures:

Provide readily accessible eye wash stations and safety showers.

Provide natural or explosion-proof ventilation adequate to ensure concentrations are kept below exposure limits.

Personal protective equipment

Respiratory protection

Keep self-contained breathing apparatus readily available for emergency use. In atmospheres where the material is sprayed, workers should avoid contact with aerosols containing the Curing Agent through proper engineering controls such as exhaust ventilation and/or proper protective equipment such as full-face air-supplied respirators, gloves and full body protective clothing. Wear appropriate respirator when ventilation is inadequate.

Hand protection

Chemical resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Nitrile rubber. In emergency situations, wear impermeable gloves with cuffs to prevent spread of material to area above the wrists. Butyl-rubber. Nitrile rubber. Neoprene gloves.

Eye/face protection

Where there is potential for exposure, chemical splash-proof goggles and a face shield must be worn. Other individuals working in the vicinity of this material where exposure can occur should also be fitted with chemical splash goggles. Workers should not contact their eyes or skin with hands contaminated with the Curing Agent.

Skin and body protection

Long sleeve shirts and trousers without cuffs.

Environmental exposure controls

Try to prevent the material from entering drains or water courses. Do not flush into surface water or sanitary sewer system.

Special instructions for protection and hygiene

Discard contaminated leather articles. Wash hands at the end of each workshift and before eating, smoking or using the toilet. Provide readily accessible eye wash stations and safety showers.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Viscous
Colour	Yellow
Odour	Amine-like
Density	1.15 g/ cm ³ at at 21 °C
Relative density	1.1 (water = 1)
Melting point/freezing point	<0 °C
Solubility	Insoluble in water
Boiling point and boiling range (°C)	>100 °C
Vapour pressure	No data available.
Water solubility	No data available.
Partition coefficient (n-octanol/water)	No data available.
pH	9.2
Viscosity	7,500 mPa.s at 20 °C
Particle characteristics	No data available.
Lower and upper explosion/ Flammability limits	Not applicable.
Autoignition temperature	No data available.
Decomposition temperature	No data available.

9.2 Other Information

Explosion properties	No data available.
Oxidizing properties	No data available.
Odour threshold	No data available.
Evaporation rate	No data available.
Flammability	Not applicability.
Relative vapour density	Not applicable.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Refer to possibility of hazardous reactions and/or incompatible materials sections.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

No data available.

10.5 Incompatible materials

Organic acids (i.e. acetic acid, citric acid etc). Mineral acids. Sodium hypochlorite. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion. Oxidizing agents.

10.6 Hazardous decomposition products

Nitric acid. Ammonia. Nitrogen oxides (NOx). Nitrogen oxide can react with water vapours to form corrosive nitric acid. Carbon monoxide. Carbon dioxide (CO2).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Likely routes of exposure

Effects on eye

Severe eye irritation. Causes eye burns.

Effects on skin

Mild skin irritation.

Inhalation effects

Harmful if inhaled and may cause delayed lung injury. May cause nose, throat, and lung irritation. Inhalation of vapours and/or aerosols in high concentration may cause irritation of respiratory system.

Ingestion effects

No data available.

Symptoms

Repeated and/or prolonged exposure to low concentrations of vapours and/or aerosols may cause: Sore throat.

Acute toxicity

Acute oral toxicity

LD50 : > 2,000mg/kg Species : Rat

Acute inhalation toxicity Inhalation of aerosols of a chemically similar material resulted in the deaths of

Rats during administration and in transient central nervous system symptoms including lethargy, ataxia, tremors and convulsions.

Acute dermal toxicity

LD50 : > 2,000mg/kg Species : Rat

Skin corrosion/irritation	Mild skin irritation. Irritation data from similar products.
Serious eye damage/eye Irritation	Severe eye irritation. Corrosive to eyes.
Sensitization	No data available.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Acute toxicity	No data available on the product itself.
Toxicity to other organisms	No data available on the product itself.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No further relevant information available.

12.4 Mobility in soil

No further relevant information available.

12.5 Results of PBT and vPvB assessment

No further relevant information available.

12.6 Other adverse effects

No further relevant information available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Recommendation Hand over to disposers of hazardous waste.

Uncleaned packagings:

Recommendation Disposal must be made according to official regulations.

SECTION 14: TRANSPORT INFORMATION

14.1 UN Number

UN No. ADR, IMDG, IATA, RID Not dangerous goods.

Further information

Not dangerous goods. The transportation information is not intended to convey all specific regulatory data relating

to the material.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Country	Regulatory List	Notification
EU	EINECS	Included on EINECS inventory or polymer substance, monomers included on EINECS inventory or no longer polymer.

WGK Identificaiton Number : 2 – water endangering

15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

The information contained herein is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Hazard statements:

R318 Causes serious eye damage.

Indication of method:

Serious eye damage category 1 causes serious eye damage. Calculation method.

Abbreviations and acronyms:

ATE – Acute Toxicity Estimate

CLP – Classification Labelling Packaging Regulation ; Regulatio (EC) No 1272/2008

REACH – Registration, Evaluation, Autorisation and Restriction of Chemicals Regulation (EC) No 1907/2006

EINECS - European Inventory of Existing Commercial Chemical Substances

ELINCS - European List of Notified Chemical Substances

CAS# - Chemical Abstract Service Number

PPE – Personal Protection Equipment

Kow – octanol-water partition coefficient

DNEL - Derived No-Effect Level

LC50 – Lethal Concentration to 50% of a test population

LD50 – Lethal Dose to 50% of a test population (Median Lethal Dose)

NOEC – No Observed Effect Concentration

PNEC – Predicted No Effect Concentration

RMM – Risk Management Measure

OEL – Occupational Exposure Limit

PBT – Persistent, Bioaccumulative and Toxic

vPvB – Very Persistent and Very Bioaccumulative

STOT – Specific Target Organ Toxicity

CSA – Chemical Safety Assessment

EN – European Standard

UN – United Nations

ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road

IATA – International Air Transport Association

IMDG – International Maritime Dangerous Goods

RID – Regulations concerning the International Carriage of Dangerous Goods by Rail

WGK – Water Hazard Class

Disclaimer: This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.