



SAFETY DATA SHEET

Motorway Blue Epoxy Pigment

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

Product name Motorway Blue Epoxy Pigment
Company Easy Composites Ltd
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 ST3 5XA
 United Kingdom
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2. HAZARDS IDENTIFICATION

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

Hazards

Human health See section 11 for additional information on health hazards.

Environment The product contains a substance which is harmful to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

Label elements

Contains EPOXY RESIN (Number average MW <= 700)
 Formaldehyde, polymer with (chloromethyl)oxirane and phenol, mw<=700
 OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIV



Risk Phrases

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

Safety Phrases

S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37	Wear suitable gloves.
S24/25	Avoid contact with skin and eyes.
S57	Use appropriate containment 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.
P5	Contains epoxy constituents. See information supplied by the manufacturer.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Description	Conc. %	CAS No.	EC No.	Classification (EC 1272/2008)	Classification (67/548/EEC)
EPOXY RESIN	30-40	25068-38-6	500-033-5	Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411	R43 Xi;R36/38 N;R51/53
Formaldehyde, polymer with (chloromethyl)oxirane and phenol	10-20	9003-36-5	500-006-8	Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411	Xi;R38. N;R51/53. R43.
OXIRANE, MONO [(C12-14- ALKYLOXY) METHYL] DERIVS	5-10	68609-97-2		Skin Irrit. 2 - H315 Skin Sens. 1 - H317	R43 Xi;R38

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

4. FIRST AID MEASURES

Description of first aid measures

Inhalation	Move the exposed person to fresh air at once. Perform artificial respiration if breathing has stopped. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Keep the affected person warm and at rest. Get prompt medical attention.
Ingestion	DO NOT INDUCE VOMITING! NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Rinse mouth thoroughly. Drink plenty of water. Get medical attention immediately!
Skin contact	Remove affected person from source of contamination. Promptly wash contaminated skin with soap or mild detergent and water. Promptly remove clothing if soaked through and wash as above. Get medical attention if any discomfort continues.
Eye contact	Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention. Get medical attention promptly if symptoms occur after washing.

Most important symptoms and effects , both acute and delayed

Inhalation	No specific symptoms noted.
Ingestion	No specific symptoms noted.
Skin contact	Prolonged contact may cause redness, irritation and dry skin.
Eye contact	Irritating and may cause redness and pain.

Indication of any immediate medical attention and special treatment needed

No specific first aid measures noted. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient

5. FIRE FIGHTING MEASURES

Extinguishing media

Extinguishing media	Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media	Not known.

Special hazards arising from the substance or mixture

Hazardous combustion products	Carbon dioxide (CO ₂). Carbon monoxide (CO). Halogenated hydrocarbons.
Unusual Fire & Explosion Hazards	Fire causes formation of toxic gases.
Specific hazards	Toxic gases/vapours/fumes of: Carbon dioxide (CO ₂). Carbon monoxide (CO).
Fire or high temperatures create	

Advice for firefighters

Special Fire Fighting Procedures	Isolate area. Very toxic to aquatic organisms. Keep run-off water out of sewers and water sources. Dike for water control.
Protective equipment for fire-fighters	Self contained breathing apparatus and full protective clothing must be worn in case of fire. Face mask, protective gloves and safety helmet.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions , protective equipment and emergency procedures

For personal protection, see section 8. Keep unnecessary and unprotected personnel from entering the area. Avoid inhalation of vapours and aerosol spray. Isolate area.

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.

Methods and material for containment and cleaning up

Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Runoff or release to sewer, waterway or ground is forbidden. For waste disposal, see section 13.

Reference to other sections

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

7. HANDLING AND STORAGE

Precautions for safe handling	Do not eat, drink or smoke when using the product. Persons susceptible to allergic reactions should not handle this product. Pregnant women should not work with the product, if there is the least risk of lead exposure. Avoid inhalation of vapours and spray mists. Keep in original container. Store in tightly closed original container. Wear suitable protective clothing as protection against splashing or contamination.
Conditions for safe storage	Store in tightly closed original container in a dry, cool and well-ventilated place. Store away from: Oxidising material. Storage Class Chemical storage.
Specific end use (s)	The identified uses for this product are detailed in Section 1.2

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

EPOXY RESIN (Number average MW <= 700) (CAS : 25068 - 38 - 6)

DNEL

Industry	Dermal	Short Term	Systemic Effects	8.3 mg/kg/day
Industry	Inhalation.	Short Term	Systemic Effects	12.3 mg/m3
Industry	Dermal	Long Term	Systemic Effects	8.3 mg/kg/day
Industry	Inhalation.	Long Term	Systemic Effects	12.3 mg/m3
Consumer	Dermal	Short Term	Systemic Effects	3.6 mg/kg/day
Consumer	Inhalation.	Short Term	Systemic Effects	0.75 mg/m3
Consumer	Oral	Short Term	Systemic Effects	0.75 mg/kg/day
Consumer	Dermal	Long Term	Systemic Effects	3.6 mg/kg/day
Consumer	Inhalation.	Long Term	Systemic Effects	0.75 mg/m3

PNEC

Freshwater	3	mg/l
Marinewater	0.3	mg/l
Sediment (Freshwater)	0.5	mg/kg
Sediment (Marinewater)	0.5	mg/kg
Intermittent release	0.013	mg/l

Formaldehyde , polymer with (chloromethyl) oxirane and phenol , mw <= 700 (CAS : 9003 - 36 - 5)

DNEL

Industry	Dermal	Short Term	Local Effect	8.3 ppm
Industry	Dermal	Long Term	Systemic Effects	104.15 mg/kg/day
Industry	Inhalation.	Long Term	Systemic Effects	29.39 mg/m3
Consumer	Dermal	Long Term	Systemic Effects	62.5 mg/kg/day
Consumer	Inhalation.	Long Term	Systemic Effects	8.7 mg/m3
Consumer	Oral	Long Term	Systemic Effects	6.25 mg/kg/day

PNEC

Freshwater	0.003	mg/l
Marinewater	0.0003	mg/l
Sediment (Freshwater)	0.294	mg/kg
Sediment (Marinewater)	0.0294	mg/kg

Soil	0.237	mg/kg
Intermittent release	0.0254	mg/l

Exposure controls**Protective equipment****Process conditions**

Provide eyewash station.

Engineering measures

Provide adequate general and local exhaust ventilation.

Respiratory equipment

Wear suitable respiratory protection. Check that mask fits tight and change filter regularly.

Hand protection

Chemical resistant gloves required for prolonged or repeated contact. Use suitable protective gloves if risk of skin contact.

Eye protection

Wear approved safety goggles.

Other Protection

AVOID ALL SKIN AND RESPIRATORY CONTACT! Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures

Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid or Coloured paste.
Colour	Variable
Odour	Slight odour.
Flash point (°C)	>150

10. STABILITY AND REACTIVITY

Reactivity	Stable under normal temperature conditions and recommended use.
Chemical stability	No particular stability concerns.
Possibility of hazardous reactions	Hazardous reactions or instability may occur under certain conditions of storage or use.
Conditions to avoid	Avoid releasing to the environment.
Incompatible materials	Materials To Avoid No data recorded.
Hazardous decomposition products	None under normal conditions

11. TOXICOLOGICAL INFORMATION**EPOXY RESIN (Number average MW <= 700) (CAS : 25068 - 38 - 6)**

Toxic Dose 1 - LD 50	30, 000 mg/kg (oral rat)		
Toxic Dose 2 - LD 50	2, 000 mg/kg (dermal rabbit)		
Acute toxicity	Inhalation LC50	Not applicable	
Respiratory	sensitisation	Not applicable	Severe skin irritation
Carcinogenicity :	Not applicable		
Reproductive	Not applicable		
Toxicity			
Specific target organ toxicity - single exposure	Not applicable		

Specific target organ toxicity - repeated exposure	NOAEL 100 mg/kg Dermal Ra			
Aspiration hazard	Skin contact	Not a skin sensitiser.	Eye contact	No specific health warnings noted

OXIRANE , MONO [(C 12 - 14 - ALKYLOXY) METHYL] DERIVS (CAS : 68609 - 97 - 2)

Toxic Dose 1 - LD 50	17, 100 mg/kg (oral rat)			
Acute toxicity	Inhalation LC50	Not applicable	Dermal LD50	Not applicable
Skin Corrosion / Irritation	Moderately Irritating			
Serious eye damage / irritation	Slightly Irritating			
Respiratory or skin sensitisation	Severe skin irritation			

Formaldehyde , polymer with (chloromethyl) oxirane and phenol , mw < = 700 (CAS : 9003 - 36 - 5)

Toxic Dose 1 - LD 50	2, 000 mg/kg (oral rat)		
Toxic Dose 2 - LD 50	2, 000 mg/kg (dermal rabbit)		
Acute toxicity	Inhalation LC50	Not applicable	
Respiratory or skin sensitisation	Respiratory sensitisation	Not available	
Specific target organ toxicity - single exposure	Not available		

12. ECOLOGICAL INFORMATION

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

Toxicity

EPOXY RESIN (Number average MW < = 700) (CAS : 25068 - 38 - 6)

Acute Toxicity - Fish	LC50 96 hours 1.3 mg/l Onchorhynchus mykiss (Rainbow trout)
Acute Toxicity - Aquatic Invertebrates	EC50 48 hours 2.1 mg/l Daphnia magna

OXIRANE , MONO [(C 12 - 14 - ALKYLOXY) METHYL] DERIVS (CAS : 68609 - 97 - 2)

Acute Toxicity - Fish	LC50 96 hours > 1.8 mg/l Onchorhynchus mykiss (Rainbow trout)
Acute Toxicity - Aquatic Invertebrates	EC50 48 hours 7.2 mg/l Daphnia magna
Acute Toxicity - Aquatic Plants	EC50 72 hours ~ 844 mg/l Freshwater algae
Persistence and degradability	There are no data on the degradability of this product
Bio accumulative potential	No data available on bioaccumulation.
Mobility in soil	No data available
Results of PBT and vPvB assessment	Not Classified as PBT/vPvB by current EU criteria.
Other adverse effects	Not known.

13. DISPOSAL CONSIDERATIONS

General information	Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.
Waste treatment methods	Dispose of waste and residues in accordance with local authority requirements. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions. Do not allow runoff to sewer, waterway or ground.
EWC NUMBER	Allocation of a waste code number in accordance with the European Waste Catalogue, should be carried out in agreement with an EA authorised waste disposal company.

14. TRANSPORT INFORMATION

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

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol F - epichlorohydrin resin with Number Average Molecular < 700,EPOXY RESIN (Number average MW <= 700)

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

**Packing group**

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

Environmental hazards

Environmentally Hazardous substance/Marine Pollutant

**Special precautions for user**

EMS F-A, S-F
 Emergency Action Code 3Z
 Hazard No. (ADR) 90
 Tunnel Restriction Code (E)

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

Not applicable.

15. REGULATORY INFORMATION**Safety , health and environmental regulations / legislation specific for the substance or mixture**

Uk Regulatory References Chemicals (Hazard Information & Packaging) Regulations.
Approved Code Of Practice Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.
EU Legislation 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. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures,

amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

Chemical Safety Assessment

Not applicable.

16. OTHER INFORMATION

Risk Phrases In Full

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

Hazard Statements

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.

Further information

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. 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 other process.