

SAFETY DATA SHEET **Emerald Epoxy Pigment**

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

Product name Emerald Epoxy Pigment Company Easy Composites Ltd

Unit 39

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United Kingdom

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2. HAZARDS IDENTIFICATION

Classification (EC1272/2008) Skin Irrit. 2 - H315; Eye Irrit. 2 - H319; Skin Sens. 1 - H317; Carc. 1B - H350; Repr. 1A -

H360Df;STOT RE 2 - H373 Aquatic Chronic 2 - H411

Classification (1999/45/EEC) Carc. Cat. 2;R45, Repr. Cat. 1;R61. Repr. Cat. 3;R62. Xi;R36/38. R43. N;R50/53, R33

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

Hazards

The product is irritating to eyes and skin. Contains lead which can accumulate in the Human health

body. Lead is absorbed into the body through inhalation of spray mist or by

ingestion.

Environment The product contains a substance which may cause long term adverse effects in the

aquatic environment.

Physical and Chemical

Hazards

Label elements Contains

EPOXY RESIN (Number average MW <= 700)

Formaldehyde, polymer with (chloromethyl)oxirane and phenol, mw<=700

When handled correctly, undamaged units represent no danger.

OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS

C.I.PIGMENT YELLOW 34 (C.I. 77603)

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



Signal Word	Danger	
Hazard Statements	H315	Causes skin irritation.

H317 May cause an allergic skin reaction. Causes serious eye irritation. H319

H350. May cause cancer

H360Df May damage the unborn child and suspected of damaging

fertility.

H373 May cause damage to organs through prolonged or repeated

exposure.

H411 Toxic to aquatic life with long lasting effects. P201 Obtain special instructions before use.

Precautionary Statements P273 Avoid release to the environment.

> P280 Wear protective gloves/protective clothing/eye protection/face

> > protection.

	P281	Use personal protective equipment as required.
	P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes.
		Remove contact lenses, if present and easy to do. Continue
		rinsing.
	P308+313	IF exposed or concerned: Get medical advice/attention.
	P313	Get medical advice/attention.
	P314	Get medical advice/attention if you feel unwell.
	P501	Dispose of contents/container to Local Authority
		according to official regulations.
Supplementary	P202	Do not handle until all safety precautions have been read and
Precautionary Statements		understood.
	P272	Contaminated work clothing should not be allowed out of the
		workplace.
	P260	Do not breathe vapour/spray.
	P261	Avoid breathing vapour/spray.
	P264	Wash contaminated skin thoroughly after handling.
	P321	Specific treatment (see medical advice on this label).
	P302+352	IF ON SKIN: Wash with plenty of soap and water.
	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.
	P405	Store locked up.
Supplemental label	EUH205	Contains epoxy constituents. May produce an allergic reaction.
information	RCH002	Restricted to professional users.

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	R43
				Eye Irrit. 2 - H319	Xi;R36/38
				Skin Sens. 1 - H317	N;R51/53
				Aquatic Chronic 2 - H411	
Formaldehyde,	10-20	9003-36-5	500-006-8	Skin Irrit. 2 - H315	Xi;R38.
polymer with				Skin Sens. 1 - H317	N;R51/53.
(chloromethyl)oxirane and phenol				Aquatic Chronic 2 - H411	R43.
OXIRANE, MONO	5-10	68609-97-2		Skin Irrit. 2 - H315	R43
[(C12-14- ALKYLOXY) METHYL] DERIVS				Skin Sens. 1 - H317	Xi;R38
C.I.PIGMENT YELLOW	5-10	1344-37-2	215-693-7	Carc. 1B - H350	Carc. Cat. 2;R45
34 (C.I. 77603)				Repr. 1A - H360Df	Repr. Cat. 1;R61
				STOT RE 2 - H373	Repr. Cat. 3;R62
				Aquatic Acute 1 - H400	R33
				Aquatic Chronic 1 - H410	N;R50/53

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.

Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least Eye contact

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 Get medical attention immediately!

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

Treatment: The presence of lead in the body can be detected by determining the amount of this substance in the body and/or urine.

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 Lead. Chromium. Antimony, Carbon dioxide (CO2). Carbon monoxide (CO).

Halogenated hydrocarbons.

Unusual Fire & Explosion Hazards Fire causes formation of toxic gases.

Toxic gases/vapours/fumes of: Carbon dioxide (CO2). Carbon monoxide Specific hazards Fire or high

temperatures create (CO). Oxides of: Lead. Chromium.

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-Self contained breathing apparatus and full protective clothing must be worn

fighters 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 Do not eat, drink or smoke when using the product. Persons susceptible to allergic handling

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

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

storage away from: Oxidising material. Storage Class Chemical storage. The identified uses for this product are detailed in Section 1.2

Specific end use (s)

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Name STD TWA - 8 Hrs STEL - 15 Min Notes

C.I.PIGMENT YELLOW 34 (C.I. 77603) WEL 0.15 mg/m3

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

DNEL	
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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)	n 294	mg/kg		

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 Emissions from ventilation or work process equipment should be checked to ensure they

Controls 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 Toxic gases/vapours/fumes of: Carbon dioxide (CO2). Carbon monoxide (CO).

Oxides of: Lead. Chromium.

11. TOXICOLOGICAL INFORMATION

General information Possible reproductive impact. Known or suspected carcinogen for humans. Lead is

accumulated in the body and may cause damage to the brain and nervous system after

prolonged exposure. Known or suspected teratogen.

Inhalation Vapour may irritate respiratory system or lungs.

Ingestion Toxic if swallowed. Toxic: danger of very serious irreversible effects if swallowed.

Skin contact Irritating to skin. Prolonged or repeated exposure may cause severe irritation.

Eye contact Irritation of eyes and mucous membranes.

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 Not applicable

toxicity - single

exposure

Aspiration hazard Skin contact Not a skin sensitiser. Eye contact No specific health warnings noted

C.I. PIGMENT YELLOW 34 (C.I. 77603) (CAS: 1344 - 37 - 2)

Toxic Dose 1 - LD 50 >2, 000 mg/kg (oral rat)

Specific target organ STOT - Repeated exposure LOAEL 70 mg/kg Oral Ra

exposure

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 / Moderately Irritating

Irritation

Serious eye damage Slightly Irritating

/ irritation

Respiratory or skin Severe skin irritation

sensitisation

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 toxicityInhalation LC50Not applicableRespiratory or skinRespiratoryNot available

sensitisationsensitisationSpecific target organNot available

toxicity - single exposure

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)

C.I. PIGMENT YELLOW 34 (C.I. 77603) (CAS: 1344 - 37 - 2)

Acute Toxicity - Fish LC50 96 hours > 10, 000 mg/
Acute Toxicity - Aquatic Invertebrates EC50 48 hours > 100 mg/

Acute Toxicity - Aquatic Plants EC50 72 hours > 100 mg/l Scenedesmus subspicatu

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)

Persistence and degradability Not applicable as the pigment is an inorganic substance and insoluble in

water

Bio accumulative potential Low bioaccumulation potential. Due to the very low solubility of

C.I.Pigment's in water, the bioavailability of the substance is expected to be low. Therefore, the bioaccumulation of the substance is expected to be low

Mobility in soil No data available

Results of PBT and vPvB assessment

Other adverse effects

Not Classified as PBT/vPvB by current EU criteria.

Due to extreme insolubility in water, this product is not toxic to aquatic life. Because of their chemical stability they do not degrade in water. However, the European Commission stated that all products containing lead and

the European Commission stated that all products containing lead a hexavalent chromium must be considered toxic to the environment

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.

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. (EPOXY

RESIN MIXTURE)

Transport hazard class (es)

ADR/RID/ADN Class

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

R33 Danger of cumulative effects R36/38 Irritating to eyes and skin. R38 Irritating to skin. R43 May cause sensitisation by skin contact.

R45 May cause cancer.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

Environment

R61 May cause harm to the unborn child. R62 Possible risk of impaired fertility.

Hazard Statements

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

H350 May cause cancer.

H360Df May damage the unborn child and suspected of damaging fertility.

H373 May cause damage to organs << Organs>> through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effectsH411 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.