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SAFETY DATA SHEET VARIOUS EP DISPERSIONS (INCLUDING FASCOL, FASPAK AND FT)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name VARIOUS EP DISPERSIONS (INCLUDING FASCOL, FASPAK AND FT)

Product number VARIOUS EP

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

Identified uses COLOURING OF EPOXIDE COMPOUNDS & SYSTEMS

1.3. Details of the supplier of the safety data sheet

Supplier WEST AND SENIOR LIMITED.
MILLTOWN STREET
RADCLIFFE
MANCHESTER. M26 1WE.
TEL + 44 01617247131
FAX + 44 01617249519
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1.4. Emergency telephone number

Emergency telephone 24 HOUR EMERGENCY TELEPHONE NUMBER : + 44 (0) 7930 595916

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317

Environmental hazards Aquatic Chronic 2 - H411

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

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

2.2. Label elements

Hazard pictograms



Signal word Warning

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.

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Precautionary statements	<p>P261 Avoid breathing vapour/ spray.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P272 Contaminated work clothing should not be allowed out of the workplace.</p> <p>P273 Avoid release to the environment.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P321 Specific treatment (see medical advice on this label).</p> <p>P332+P313 If skin irritation occurs: Get medical advice/ attention.</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.</p> <p>P337+P313 If eye irritation persists: Get medical advice/ attention.</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse.</p> <p>P391 Collect spillage.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>
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Contains	BISPHENOL A-(EPICHLORHYDRIN) {REACTION PRODUCT}, Formaldehyde, polymer with (chloromethyl)oxirane and phenol, mw <=700, oxirane, mono[(C12-14-alkyloxy)methyl] derivs.
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2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

BISPHENOL A-(EPICHLORHYDRIN) {REACTION PRODUCT}	40-60%
CAS number: 25068-38-6	EC number: 500-033-5
	REACH registration number: 01-2119456619-26-0000
Classification	
Skin Irrit. 2 - H315	
Eye Irrit. 2 - H319	
Skin Sens. 1 - H317	
Aquatic Chronic 2 - H411	
Formaldehyde, polymer with (chloromethyl)oxirane and phenol, mw <=700	30-60%
CAS number: 9003-36-5	EC number: 500-006-8
	REACH registration number: 01-2119454392-40-0000
Classification	
Skin Irrit. 2 - H315	
Eye Irrit. 2 - H319	
Skin Sens. 1 - H317	
Aquatic Chronic 2 - H411	

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oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	10-30%
CAS number: 68609-97-2	REACH registration number: 01-2119485289-22-0000
Classification Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411	

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move affected person to fresh air at once. If breathing stops, provide artificial respiration. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Keep affected person warm and at rest. Get medical attention immediately.
Ingestion	Do not induce vomiting. Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention immediately.
Skin contact	Remove affected person from source of contamination. Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.
Eye contact	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention. Get medical attention promptly if symptoms occur after washing.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation	Vapours may irritate throat/respiratory system.
Ingestion	There may be soreness and redness of the mouth and throat.
Skin contact	Prolonged contact may cause redness, irritation and dry skin.
Eye contact	Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor	No specific recommendations. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.
Specific treatments	Provide eyewash station.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use fire-extinguishing media suitable for the surrounding fire.
Unsuitable extinguishing media	Not known.

5.2. Special hazards arising from the substance or mixture

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Specific hazards	Fire or high temperatures create: Toxic gases/vapours/fumes of: Carbon dioxide (CO ₂). Carbon monoxide (CO). Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours.
Hazardous combustion products	Carbon dioxide (CO ₂). Carbon monoxide (CO). Halogenated hydrocarbons.
5.3. Advice for firefighters	
Protective actions during firefighting	Isolate area. Very toxic to aquatic organisms. Control run-off water by containing and keeping it out of sewers and watercourses.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Use air-supplied respirator, gloves and protective goggles.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	For personal protection, see Section 8. Keep unnecessary and unprotected personnel from entering the area. Avoid inhalation of vapours. Isolate area.
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6.2. Environmental precautions

Environmental precautions	Avoid discharge into drains or watercourses or onto the ground. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.
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6.3. Methods and material for containment and cleaning up

Methods for cleaning up	Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Avoid the spillage or runoff entering drains, sewers or watercourses. For waste disposal, see Section 13.
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6.4. Reference to other sections

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.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions	Do not eat, drink or smoke when using the product. Persons susceptible to allergic reactions should not handle this product. Avoid contact with skin and eyes. Avoid inhalation of vapours and spray/mists. Keep only in the original container. Store in tightly-closed, original container. Wear suitable protective clothing as protection against splashing or contamination.
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7.2. Conditions for safe storage, including any incompatibilities

Storage precautions	Store in tightly-closed, original container in a dry, cool and well-ventilated place.
Storage class	Chemical storage.

7.3. Specific end use(s)

Specific end use(s)	The identified uses for this product are detailed in Section 1.2.
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SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

BISPHENOL A-(EPICHLORHYDRIN) {REACTION PRODUCT} (CAS: 25068-38-6)

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DNEL	Industry - Dermal; Short term systemic effects: 8.3 mg/kg/day
	Industry - Inhalation; Short term systemic effects: 12.3 mg/m ³
	Industry - Dermal; Long term systemic effects: 8.3 mg/kg/day
	Industry - Inhalation; Long term systemic effects: 12.3 mg/m ³
	Consumer - Dermal; Short term systemic effects: 3.6 mg/kg/day
	Consumer - Inhalation; Short term systemic effects: 0.75 mg/m ³
	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/m ³
PNEC	- Fresh water; 3 mg/l
	- marine water; 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 effects: 8.3 ppm
	Industry - Dermal; Long term systemic effects: 104.15 mg/kg/day
	Industry - Inhalation; Long term systemic effects: 29.39 mg/m ³
	Consumer - Dermal; Long term systemic effects: 62.5 mg/kg/day
	Consumer - Inhalation; Long term systemic effects: 8.7 mg/m ³
	Consumer - Oral; Long term systemic effects: 6.25 mg/kg/day
PNEC	- Fresh water; 0.003 mg/l
	- marine water; 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

oxirane, mono[(C12-14-alkyloxy)methyl] derivs. (CAS: 68609-97-2)

DNEL	Workers - Inhalation; Long term systemic effects: 3.6 mg/m ³
	Workers - Dermal; Long term systemic effects: 1 mg/kg/day
	General population - Inhalation; Long term systemic effects: 0.87 mg/m ³
	General population - Dermal; Long term systemic effects: 0.5 mg/kg/day
	General population - Oral; Long term systemic effects: 0.5 mg/kg/day
PNEC	Fresh water; 0.106 mg/l
	Fresh water, Intermittent release; 0.072 mg/l
	marine water; 0.011 mg/l
	STP; 10 mg/l
	Sediment (Freshwater), dw; 307.16 mg/kg
	Sediment (Marinewater), dw; 30.72 mg/kg
Soil, dw; 1.234 mg/kg	

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

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Eye/face protection	The following protection should be worn: Chemical splash goggles.
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.
Other skin and body protection	AVOID ALL SKIN AND RESPIRATORY CONTACT! Wear appropriate clothing to prevent any possibility of skin contact. Wear apron or protective clothing in case of contact.
Hygiene measures	Provide eyewash station. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.
Respiratory protection	If ventilation is inadequate, suitable respiratory protection must be worn. Check that the respirator fits tightly and the filter is changed regularly.
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. or Coloured paste.
Colour	Variable
Odour	Slight.
Melting point	Not determined.
Initial boiling point and range	Not determined.
Flash point	>150°C
Evaporation rate	Not determined.
Upper/lower flammability or explosive limits	Not determined.
Vapour pressure	Not determined.
Vapour density	Not determined.
Viscosity	Not determined.

9.2. Other information

Other information	No information required.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	Stable at normal ambient temperatures and when used as recommended.
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10.2. Chemical stability

Stability	No particular stability concerns.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Hazardous reactions or instability may occur under certain conditions of storage or use.
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VARIOUS EP DISPERSIONS (INCLUDING FASCOL, FASPAK AND FT)

10.4. Conditions to avoid

Conditions to avoid Avoid releasing into the environment.

10.5. Incompatible materials

Materials to avoid No data recorded.

10.6. Hazardous decomposition products

Hazardous decomposition products Does not decompose when used and stored as recommended.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological information on ingredients.

BISPHENOL A-(EPICHLORHYDRIN) {REACTION PRODUCT}

Acute toxicity - oral

Acute toxicity oral (LD₅₀) 11,400.0
mg/kg)

Species Rat

ATE oral (mg/kg) 11,400.0

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Not applicable.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye irritation.

Skin sensitisation

Skin sensitisation Severe skin irritation.

Carcinogenicity

Carcinogenicity Not applicable.

Reproductive toxicity

Reproductive toxicity - fertility Not applicable.

Specific target organ toxicity - single exposure

STOT - single exposure Not applicable.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 100 mg/kg, Dermal, Rat

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

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Not applicable.

Specific target organ toxicity - single exposure

STOT - single exposure Not available.

oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

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Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 17,100.0

Species Rat

ATE oral (mg/kg) 17,100.0

Acute toxicity - dermal

Notes (dermal LD₅₀) Not applicable.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Not applicable.

Skin corrosion/irritation

Animal data Moderately irritating.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye irritation.

Skin sensitisation

Skin sensitisation Severe skin irritation.

SECTION 12: Ecological information

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

12.1. Toxicity

Ecological information on ingredients.

BISPHENOL A-(EPICHLORHYDRIN) {REACTION PRODUCT}

Acute aquatic toxicity

Acute toxicity - fish LC50, 96 hours: 1.3 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 2.1 mg/l, Daphnia magna

oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

Acute aquatic toxicity

Acute toxicity - fish LC50, 96 hours: > 1.8 mg/l, Oncorhynchus 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

12.2. Persistence and degradability

Persistence and degradability There are no data on the degradability of this product.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

12.4. Mobility in soil

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Mobility No data available.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Other adverse effects Not known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions. Avoid the spillage or runoff entering drains, sewers or watercourses.

Waste class 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.

SECTION 14: Transport information

14.1. UN number

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

14.2. UN proper shipping name

Proper shipping name (ADR/RID) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS BISPHENOL A-(EPICHLORHYDRIN) {REACTION PRODUCT}, Formaldehyde, polymer with (chloromethyl)oxirane and phenol, mw <=700)

Proper shipping name (IMDG) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS BISPHENOL A-(EPICHLORHYDRIN) {REACTION PRODUCT}, Formaldehyde, polymer with (chloromethyl)oxirane and phenol, mw <=700)

Proper shipping name (ICAO) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS BISPHENOL A-(EPICHLORHYDRIN) {REACTION PRODUCT}, Formaldehyde, polymer with (chloromethyl)oxirane and phenol, mw <=700)

Proper shipping name (ADN) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS BISPHENOL A-(EPICHLORHYDRIN) {REACTION PRODUCT}, Formaldehyde, polymer with (chloromethyl)oxirane and phenol, mw <=700)

14.3. Transport hazard class(es)

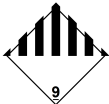
ADR/RID class	9
ADR/RID classification code	M6
ADR/RID label	9
IMDG class	9

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ICAO class/division 9

ADN class 9

Transport labels



14.4. Packing group

ADR/RID packing group III

IMDG packing group III

ICAO packing group III

ADN packing group III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



14.6. Special precautions for user

EmS F-A, S-F

ADR transport category 3

Emergency Action Code •3Z

Hazard Identification Number (ADR/RID) 90

Tunnel restriction code (-)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

Not applicable.

SECTION 15: Regulatory information

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

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) (as amended).
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 (as amended).

Guidance Safety Data Sheets for Substances and Preparations.
Approved Classification and Labelling Guide (Sixth edition) L131.

15.2. Chemical safety assessment

Not applicable.

SECTION 16: Other information

VARIOUS EP DISPERSIONS (INCLUDING FASCOL, FASPAK AND FT)

Revision date	21/08/2018
Revision	10
Supersedes date	16/05/2018
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.