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SAFETY DATA SHEET EP FASCOL LIGHT ADMIRALTY GREY PIGMENT

SECTION 1: Identification of the substance/mixture and of the company/undertaking			
1.1. Product identifier			
Product name	EP FASCOL LIGHT ADMIRALTY GREY PIGMENT		
Product number	WS20929A		
1.2. Relevant identified uses	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 info@westsenior.co.uk		
1.4. Emergency telephone nu	umber		
Emergency telephone	24 HOUR EMERGENCY TELEPHONE NUMBER : + 44 (0) 7930 595916		
SECTION 2: Hazards identified	cation		
2.1. Classification of the subs	stance or mixture		
Classification (EC 1272/2008	<u>-</u>		
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. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H411 Toxic to aquatic life with long lasting effects.		

Precautionary statements	 P261 Avoid breathing vapour/ spray. P264 Wash contaminated skin thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P302+P352 IF ON SKIN: Wash with plenty of water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P321 Specific treatment (see medical advice on this label). P332+P313 If skin irritation occurs: Get medical advice/ attention. P337+P313 If eye irritation persists: Get medical advice/ attention. P362+P364 Take off contaminated clothing and wash it before reuse. P391 Collect spillage. P501 Dispose of contents/ container in accordance with national regulations.
Supplemental label information	EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
Contains	bis-[4-(2,3-epoxipropoxi)phenyl]propane, Formaldehyde, polymer with (chloromethyl)oxirane and phenol, mw <=700, oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

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		
TITANIUM DIOXIDE		30-60%
CAS number: 13463-67-7	EC number: 236-675-5	REACH registration number: 01- 2119489379-17-0000
Classification Not Classified		
bis-[4-(2,3-epoxipropoxi)phenyl]p	ropane	30-60%
CAS number: 1675-54-3	EC number: 216-823-5	REACH registration number: 01- 2119456619-26
Classification		
Skin Irrit. 2 - H315		
Eye Irrit. 2 - H319		
Skin Sens. 1 - H317		

Formaldehyde, polymer with (chloron phenol, mw <=700	methyl)oxirane and	1	0-30%
CAS number: 9003-36-5	EC number: 500-006-8	REACH registration number: 01- 2119454392-40-0000	
Classification Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411			
oxirane, mono[(C12-14-alkyloxy)met	hyl] derivs.		5-10%
CAS number: 68609-97-2	REACH registration number: 01- 2119485289-22-0000		
Classification Skin Irrit. 2 - H315 Skin Sens. 1 - H317			
C.I. PIGMENT YELLOW 42			1-5%
CAS number: 51274-00-1	EC number: 257-098-5	REACH registration number: 01- 2119457554-33-0000	
Classification Not Classified			
BARIUM SULPHATE			<1%
CAS number: 7727-43-7	EC number: 231-784-4	REACH registration number: 01- 2119491274-35-0001	
Classification Not Classified			
CARBON BLACK			<1%
CAS number: 1333-86-4	EC number: 215-609-9	REACH registration number: 01- 2119384822-32-0000	
Classification Not Classified			
Trimethylolpropane			<1%
CAS number: 77-99-6	EC number: 201-074-9	REACH registration number: 01- 2119486799-10-XXXX	
Classification Repr. 2 - H361fd			

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

Composition commentsThis mixture contains \geq 1% Titanium Dioxide (CAS 13463-67-7) The Annex VI classification of
Titanium Dioxide does not apply to this mixture according to its Note 10.

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	Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Give milk instead of water if readily available. 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 immediat	e 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 meas	ures	
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		
Specific hazards	Fire or high temperatures create: Toxic gases or vapours. Carbon dioxide (CO2). Carbon monoxide (CO). Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours.	
Hazardous combustion products	Carbon dioxide (CO2). Carbon monoxide (CO). Halogenated hydrocarbons.	
5.3. Advice for firefighters		
Protective actions during firefighting	Isolate area. Very toxic to aquatic life. 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.		
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.		
6.3. Methods and material for o	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.		
6.4. Reference to other section	<u>s</u>		
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 stor	age		
7.1. Precautions for safe handl	ing		
Usage precautions	Do not eat, drink or smoke when using this product. Persons susceptible to allergic reactions should not handle this product. Avoid contact with skin and eyes. Avoid inhalation of vapours and spray/mists. Store in tightly-closed, original container. Wear suitable protective clothing as protection against splashing or contamination.		
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.		
SECTION 8: Exposure controls/Personal protection			
	erage (TWA):, Inhalable dust. 10 mg/m3, 8 h		
EH40 WEL, Time Weighted Average (TWA):, Respirable dust. 4 mg/m3, 8 h			

C.I. PIGMENT YELLOW 42

Long-term exposure limit (8-hour TWA): 5 mg/m³, Iron. fume Short-term exposure limit (15-minute): 10 mg/m³, Iron. fume

BARIUM SULPHATE

Long-term exposure limit (8-hour TWA): 4 mg/m³ respirable dust Long-term exposure limit (8-hour TWA): 10 mg/m³ inhalable dust

CARBON BLACK

Argentina 3.5, TWA Australia 3.0, TWA, inhalable Belgium 3.6, TWA Brazil 3.5, TWA Canada (Ontario) 3.0 TWA, inhalable China 4.0, TWA 8.0, TWA, STEL (15 min) Colombia 3.0, TWA, inhalable Czech Republic 2.0, TWA Egypt 3.5, TWA Finland 3.5, TWA; 7.0, STEL France - INRS 3.5, TWA/VME inhalable Germany - BeKGS527 0.5, TWA, respirable; 2.0, TWA, inhalable (DNEL values) Hong Kong 3.5, TWA Indonesia 3.5, TWA/NABs Ireland 3.5, TWA; 7.0, STEL Italy 3.5, TWA, inhalable Japan - MHLW 3.0 Japan - SOH 4.0, TWA; 1.0, TWA, respirable Korea 3.5, TWA Malaysia 3.5, TWA Mexico 3.5, TWA Russia 4.0, TWA Spain 3.5, TWA (VLA-ED) Sweden 3.0, TWA United Kingdom 3.5, TWA, inhalable; 7.0, STEL, inhalable EU REACH DNEL 2.0, TWA, inhalable; 0.5, TWA respirable United States 3.5, TWA, OSHA-PEL 3.0, TWA, ACGIH-TLV®, inhalable 3.5, TWA, NIOSH-REL

TITANIUM DIOXIDE (CAS: 13463-67-7)

DNEL	Workers - Inhalation; Long term local effects: 10 mg/m³ Professional - Inhalation; Long term local effects: 10 mg/m³ Consumer - Oral; Long term systemic effects: 700 mg/kg/day
PNEC	marine water; 0.0184 mg/l Fresh water; 0.184 mg/l Intermittent release; 0.193 mg/l STP; 100 mg/l Sediment, marine water; 100 mg/kg Sediment, Fresh water; 1000 mg/kg Soil; 100 mg/kg

bis-[4-(2,3-epoxipropoxi)phenyl]propane (CAS: 1675-54-3)

DNEL	Workers - Dermal; Short term systemic effects: 8.3 mg/kg, bw/day Workers - Inhalation; Short term systemic effects: 12.3 mg/m ³ Workers - Dermal; Long term systemic effects: 8.3 mg/kg, bw/day Workers - Inhalation; Long term systemic effects: 12.3 mg/m ³ General population - Dermal; Short term systemic effects: 3.6 mg/kg, bw/day General population - Inhalation; Short term systemic effects: 0.75 mg/m ³ General population - Oral; Short term systemic effects: 0.75 mg/kg, bw/day General population - Dermal; Long term systemic effects: 0.75 mg/kg, bw/day General population - Inhalation; Long term systemic effects: 0.75 mg/m ³ General population - Oral; Long term systemic effects: 0.75 mg/m ³
PNEC	Fresh water; 3 µg/l marine water; 0.3 µg/l STP; 10 mg/l Sediment (Freshwater); 0.5 mg/kg Sediment (Marinewater); 0.5 mg/kg Sediment; 0.05 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/m³ Workers - Dermal; Long term systemic effects: 1 mg/kg/day General population - Inhalation; Long term systemic effects: 0.87 mg/m³ 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 <u>C.I. PIGMENT YELLOW 42 (CAS: 51274-00-1)</u>
DNEL	Workers - Inhalation; Long term local effects: 10 mg/cm ²
	BARIUM SULPHATE (CAS: 7727-43-7)

	Consumer - Oral; Long term systemic effects: 13000 mg/kg	
PNEC	Fresh water; 115 μg/l STP; 62.2 mg/l Sediment (Freshwater); 600.4 mg/kg Soil; 207.7 mg/kg	
	CARBON BLACK (CAS: 1333-86-4)	
DNEL	Workers - Inhalation; Long term : 0.5 mg/m³, respirable fraction Workers - Inhalation; Long term : 2 mg/m³, inhalable fraction	
	Trimethylolpropane (CAS: 77-99-6)	
DNEL	Workers - Inhalation; Long term systemic effects: 3.3 mg/m ³ Workers - Dermal; Long term systemic effects: 0.94 mg/kg Consumer - Inhalation; Long term systemic effects: 0.58 mg/m ³ Consumer - Dermal; Long term systemic effects: 0.34 mg/kg Consumer - Oral; Long term systemic effects: 0.34 mg/kg	
8.2. Exposure controls		
Protective equipment		
Appropriate engineering controls	Provide adequate general and local exhaust ventilation.	
Eye/face protection	Unless the assessment indicates a higher degree of protection is required, 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.	
Other skin and body protection	Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.	
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 che	emical properties	

9.1. Information on basic physical and chemical properties

Appearance	Liquid. or Coloured paste.
Colour	Variable

Odour	Slight.
Odour threshold	Not available.
рН	Not available.
Melting point	Not determined.
Initial boiling point and range	Not determined.
Flash point	150°C
Evaporation rate	Not determined.
Evaporation factor	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	Not determined.
Other flammability	Not available.
Vapour pressure	Not determined.
Vapour density	Not determined.
Relative density	Not available.
Bulk density	Not available.
Solubility(ies)	Not available.
Partition coefficient	Not available.
Auto-ignition temperature	(ASTM D 1929) 400°C
Decomposition Temperature	Not available.
Viscosity	Not determined.
Explosive properties	Not applicable.
Explosive under the influence of a flame	No
Oxidising properties	Not available.
Comments	Information given is applicable to the product as supplied.
9.2. Other information	
Other information	No information required.
SECTION 10: Stability and rea	activity
10.1. Reactivity	
Reactivity	Stable at normal ambient temperatures and when used as recommended.
10.2. Chemical stability	
Stability	No particular stability concerns.
10.3. Possibility of hazardous	
Possibility of hazardous reactions	Hazardous reactions or instabillity may occur under certain conditions of storage or use.
10.4. Conditions to avoid	

Conditions f	o avoid Avo	pid releasing into the environment.	
10.5. Incom	patible materials		
Materials to	avoid No	data recorded.	
10.6. Hazar	dous decomposition pro	oducts	
Hazardous products	decomposition Doo	es not decompose when used and stored as recommended.	
SECTION 1	1: Toxicological informa	ation	
11.1. Information on toxicological effects			
Toxicologica	al information on ingred	ients.	
		bis-[4-(2,3-epoxipropoxi)phenyl]propane	
	Acute toxicity - oral		
	Notes (oral LD₅₀)	LD₅₀ 11400 mg/kg, Oral, Rat	
	Acute toxicity - derma	<u> </u>	
	Notes (dermal LD₅₀)	LD₅₀ >2000 mg/kg, Dermal, Rabbit	
	Acute toxicity - inhalat	lion	
	Notes (inhalation LC₅	Unlikely to be hazardous by inhalation because of the low vapour pressure of the product at ambient temperature.	
	Skin corrosion/irritatio	<u>n</u>	
	Skin corrosion/irritatio	n Irritating to skin.	
	Serious eye damage/i	rritation	
	Serious eye damage/irritation	Causes eye irritation.	
	Respiratory sensitisat	ion	
	Respiratory sensitisat	ion May cause sensitisation or allergic reactions in sensitive individuals.	
	Skin sensitisation		
	Skin sensitisation	May cause an allergic skin reaction.	
	Germ cell mutagenicit	<u>y</u>	
	Genotoxicity - in vitro	Based on available data the classification criteria are not met.	
	Genotoxicity - in vivo	Based on available data the classification criteria are not met.	
	Carcinogenicity		
	IARC carcinogenicity	IARC Group 3 Not classifiable as to its carcinogenicity to humans.	
	Reproductive toxicity		
	Reproductive toxicity	- Based on available data the classification criteria are not met.	
	Specific target organ t	oxicity - repeated exposure	
	STOT - repeated expo	osure Based on available data the classification criteria are not met.	
	Aspiration hazard		
	Aspiration hazard	Based on available data the classification criteria are not met.	

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

Acute toxicity - oral	
Notes (oral LD₅₀)	LD₅₀ >2000 mg/kg, Oral, Rat
Acute toxicity - inhalation	
Notes (inhalation LC₅₀)	Not applicable.
Specific target organ toxici	ty - single exposure
STOT - single exposure	Not available.
	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.
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/irritat	ion
Serious eye damage/irritation	Causes serious eye irritation.
Skin sensitisation	
Skin sensitisation	Severe skin irritation.
	CARBON BLACK
Acute toxicity - oral	
Notes (oral LD₅₀)	LD₅₀ >8000 mg/kg, Oral, Rat
Germ cell mutagenicity	
Summary	In vivo mutagenicity in rats occurs by mechanisms secondary to a threshold effect and is a consequence of "lung overload," which chronic inflammation and the release of genotoxic oxygen species. T mechanism is considered to be a secondary genotoxic effect and, th carbon black itself would not be considered to be mutagenic.
Genotoxicity - in vitro	Carbon black is not suitable to be tested directly in bacterial (Ames test) and other in vitro systems because of its insolubility. However, y organic solvent extracts of carbon black have been tested, results sh mutagenic effects. Organic solvent extracts of carbon black can cont traces of polycyclic aromatic hydrocarbons (PAHs). A study to exam bioavailability of these PAHs showed that they are very tightly bound carbon black and are not bioavailable (Borm, 2005).

	Genotoxicity - in vivo	In an experimental investigation, mutational changes in the hprt ene were reported in alveolar epithelial cells in the rat following inhalation exposure to carbon black (Driscoll, 1997). This observation is considered to be rat-specific and a consequence of "lung overload," which leads to chronic inflammation and release of reactive oxygen species. This is considered to be a secondary genotoxic effect and, thus, carbon black itself would not be considered to be mutagenic.
	Carcinogenicity	
	IARC carcinogenicity	IARC Group 2B Possibly carcinogenic to humans.
		Trimethylolpropane
	Acute toxicity - oral	
	Acute toxicity oral (LD₅₀ mg/kg)	14,700.0
	Species	Rat
	ATE oral (mg/kg)	14,700.0
	Acute toxicity - dermal	
	Acute toxicity dermal (LD₅ mg/kg)	10,000.0
	Species	Rabbit
	ATE dermal (mg/kg)	10,000.0
	Reproductive toxicity	
	Reproductive toxicity - fertility	Suspected of damaging fertility. Suspected of damaging the unborn child.
SECTION 12: Ecological information		
Ecotoxicity	toxicity Dangerous for the environment. May cause long-term adverse effects in the aquatic environment.	
Ecological i	nformation on ingredients.	
		bis-[4-(2,3-epoxipropoxi)phenyl]propane
	Ecotoxicity	Toxic to aquatic life.
12.1. Toxici	-	
Ecological information on ingredients.		
bis-[4-(2,3-epoxipropoxi)phenyl]propane		
	Toxicity	WGK 2
	Acute aquatic toxicity	
	Acute toxicity - fish	LC₅₀, 96 hours: 1.3 mg/l, Fish
	Acute toxicity - aquatic invertebrates	EC₅₀, 48 hours: 2.1 mg/l, Ceriodaphnia dubia (water flea)
	Acute toxicity - aquatic plants	EC₅₀, 72 hours: 11 mg/l, Algae

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

Acute aquatic	toxicity
Acute toxicity -	- fish LC₅₀, 96 hours: 2.54 mg/l, Fish
Acute toxicity - invertebrates	- aquatic EC₅₀, 48 hours: 2.55 mg/l, Daphnia magna
Acute toxicity - plants	- aquatic EC₅₀, 72 hours: >1000 mg/l, Algae
	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 - invertebrates	- aquatic EC₅₀, 48 hours: 7.2 mg/l, Daphnia magna
Acute toxicity - plants	- aquatic EC₅₀, 72 hours: ~ 844 mg/l, Freshwater algae
	Trimethylolpropane
Acute aquatic	toxicity
Acute toxicity -	- fish LC₅₀, 96 hours: >1,000 mg/l, Alburnus alburnus (bleak)
Acute toxicity - invertebrates	- aquatic EC₅₀, 48 hours: 13,000 mg/l, Daphnia magna NOEC, 21 days: >1,000 mg/l, Daphnia magna
Acute toxicity - plants	- aquatic EC₀, 48 hours: >102 mg/l, Daphnia magna EC₅₀, 72 days: >1,000 mg/l, Pseudokirchneriella subcapitata
12.2. Persistence and degra	adability
Persistence and degradabili	ity There are no data on the degradability of this product.
Ecological information on in	gredients.
	bis-[4-(2,3-epoxipropoxi)phenyl]propane
Biodegradatior	n Not readily biodegradable.
	Formaldehyde, polymer with (chloromethyl)oxirane and phenol, mw <=700
Persistence ar degradability	nd Not readily biodegradable.
	Trimethylolpropane
Biodegradatior	n Activated sludge - Degradation 100%: 28 days
12.3. Bioaccumulative poter	
Bioaccumulative potential	No data available on bioaccumulation.
Partition coefficient	Not available.
Farmon coencient	
Ecological information on in	

Bioaccumulative potential log Pow: 2.65 - 3.78, BCF: 3 - 31 31.00,

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

Bioaccumulative potential log Pow: 3.3, BCF: 150 150.00,

Trimethylolpropane			
Bioaccumulativ	e potential	BCF: < 17, Cyprinus carpio (Common carp)	
Partition coeffic	ient	log Pow: -0.47 (26°C)	
12.4. Mobility in soil			
Mobility	No data	available.	
12.5. Results of PBT and vP	vB assessn	nent	
Results of PBT and vPvB assessment	This sub	This substance is not classified as PBT or vPvB according to current EU criteria.	
12.6. Other adverse effects			
Other adverse effects	Not kno	wn.	
SECTION 13: Disposal cons	iderations		
13.1. Waste treatment metho	ods		
General information		hould be treated as controlled waste. Dispose of waste to licensed waste disposal site dance with the requirements of the local Waste Disposal Authority.	
Disposal methods	local Wa hazardo	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		UMBER : Allocation of a waste code number in accordance with the European Waste ue, should be carried out in agreement with an EA authorised waste disposal y.	
SECTION 14: Transport info	rmation		
Road transport notes	net Qty or inner	- These substances when carried in Single or Combination packaging's containing a per single or inner packaging of 5ltr or less for liquids or having a net mass per single packaging of 5kg or less for solids, are not subject to any provisions of ADR provided kaging's meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8	
Sea transport notes	Chapter 2.10 – 2.10.2.7 – Marine Pollutants packaged in Single or Combination packaging's containing a net Qty per single or inner packaging of 5ltr or less for liquids or having a net mass per single or inner packaging of 5kg or less for solids, are not subject to any other provisions of this code relevant to Marine Pollutants, provided the packaging's meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. In the case of Marine Pollutants also meeting the Criteria for inclusion in another class, all provisions of this code relevant to apply		
Air transport notes	Qty per	These substances when carried in Single or Combination packaging's containing a net single or inner packaging of 5ltr or less for liquids or having a net mass per single or ickaging of 5kg or less for solids, are not subject to any other provisions of these	

5.0.2.8

regulations provided the packaging's meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and

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. (Bisphenol A Bisphenol F Mixture)	
Proper shipping name (IMDG)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol A Bisphenol F Mixture)	
Proper shipping name (ICAO)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol A Bisphenol F Mixture)	
Proper shipping name (ADN)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol A Bisphenol F Mixture)	
14.3. Transport hazard class(es)		
ADR/RID class	9	
ADR/RID classification code	M6	

IVIO
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9

Transport labels

14.4. Packing group	
ADR/RID packing group	Ш
IMDG packing group	Ш
ADN packing group	III
ICAO packing group	Ш

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 90 (ADR/RID)

Tunnel restriction code (E)

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

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

SECTION 15: Regulatory information

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

National regulations	Control of Substances Hazardous to Health Regulations 2002 (as amended).
EU legislation	Commission Regulation (EU) 2015/830 of 28 May 2015 amending 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.
Guidance	A guide to local exhaust ventilation (LEV) HSG258 (as ammended) Workplace Exposure Limits EH40.

15.2. Chemical safety assessment

Not applicable.

SECTION 16: Other information

Revision date	07/12/2021
Revision	8
Supersedes date	28/11/2017
Hazard statements in full	 H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H361fd Suspected of damaging fertility. Suspected of damaging the unborn child. H411 Toxic to aquatic life with long lasting effects.

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