

## SAFETY DATA SHEET

## ARBOFLEX® EPDM Primer Component A

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

SECTION 1: Identification of t	he substance/mixture and of the company/undertaking
1.1. Product identifier	
Product name	ARBOFLEX® EPDM Primer Component A
1.2. Relevant identified uses of	of the substance or mixture and uses advised against
Identified uses	Primer.
Uses advised against	Restricted to professional users.
1.3. Details of the supplier of t	the safety data sheet
Supplier	Carlisle Construction Materials Ltd. Lancaster House, Concorde Way, Millennium Business Park, Mansfield, Nottinghamshire, NG19 7DW United Kingdom 01623 627285 sds.carlisle@ccm-europe.com
1.4. Emergency telephone nu	mber
Emergency telephone	NPIS (National Poisons Information Service): 0344 892 0111 (for medical professionals only). For medical advice, members of the public should contact NHS 111 in England: 111; NHS 24 in Scotland: 111; NHS Direct in Wales: 111 or 0845 4647. In Northern Ireland: contact your local GP or pharmacist.
SECTION 2: Hazards identific	ation
2.1. Classification of the subst	tance or mixture
Classification (EC 1272/2008)	
Physical hazards	Not Classified
Health hazards	Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1A - H317
Environmental hazards	Aquatic Chronic 2 - H411
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	<ul> <li>P261 Avoid breathing vapour/ spray.</li> <li>P273 Avoid release to the environment.</li> <li>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</li> <li>P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.</li> <li>P337+P313 If eye irritation persists: Get medical advice/ attention.</li> <li>P391 Collect spillage.</li> </ul>
Contains	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'- [methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-({2-[4-(oxiran-2- ylmethoxy)benzyl]phenoxy}methyl)oxirane, 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/informa		
3.2. Mixtures		
4,4'-Isopropylidenediphenol, oligo with 1-chloro-2,3-epoxypropane	omeric reaction products	70 - 80%
CAS number: 25068-38-6	EC number: 500-033-5	REACH registration number: 01- 2119456619-26-XXXX
Classification		
Skin Irrit. 2 - H315		
Eye Irrit. 2 - H319		
Skin Sens. 1 - H317		
Aquatic Chronic 2 - H411		
Reaction mass of 2,2'-[methylene	bie(2.1-	10 - <20%
phenyleneoxymethylene)]bis(oxir [methylenebis(4,1-phenyleneoxyl 2-({2-[4-(oxiran-2-ylmethoxy)benz	ane) and 2,2'- methylene)]bis(oxirane) and	10 - 42070
phenyleneoxymethylene)]bis(oxir [methylenebis(4,1-phenyleneoxyr	ane) and 2,2'- methylene)]bis(oxirane) and	10 - 420 /6
phenyleneoxymethylene)]bis(oxir [methylenebis(4,1-phenyleneoxyl 2-({2-[4-(oxiran-2-ylmethoxy)benz	ane) and 2,2'- methylene)]bis(oxirane) and zyl]phenoxy}methyl)oxirane REACH registration number: 01-	10 - 420 /0
phenyleneoxymethylene)]bis(oxir [methylenebis(4,1-phenyleneoxyr 2-({2-[4-(oxiran-2-ylmethoxy)benz CAS number: 9003-36-5	ane) and 2,2'- methylene)]bis(oxirane) and zyl]phenoxy}methyl)oxirane REACH registration number: 01-	10 - 420 /0
phenyleneoxymethylene)]bis(oxir [methylenebis(4,1-phenyleneoxyr 2-({2-[4-(oxiran-2-ylmethoxy)benz CAS number: 9003-36-5 Classification	ane) and 2,2'- methylene)]bis(oxirane) and zyl]phenoxy}methyl)oxirane REACH registration number: 01-	10 - 420 /0
phenyleneoxymethylene)]bis(oxir [methylenebis(4,1-phenyleneoxyr 2-({2-[4-(oxiran-2-ylmethoxy)benz CAS number: 9003-36-5 Classification Skin Irrit. 2 - H315	ane) and 2,2'- methylene)]bis(oxirane) and zyl]phenoxy}methyl)oxirane REACH registration number: 01-	10 - 420 /0
phenyleneoxymethylene)]bis(oxir [methylenebis(4,1-phenyleneoxyr 2-({2-[4-(oxiran-2-ylmethoxy)benz CAS number: 9003-36-5 Classification Skin Irrit. 2 - H315 Skin Sens. 1A - H317	ane) and 2,2'- methylene)]bis(oxirane) and zyl]phenoxy}methyl)oxirane REACH registration number: 01- 2119454392-40-XXXX	5 - 10%
phenyleneoxymethylene)]bis(oxir [methylenebis(4,1-phenyleneoxyr 2-({2-[4-(oxiran-2-ylmethoxy)benz CAS number: 9003-36-5 Classification Skin Irrit. 2 - H315 Skin Sens. 1A - H317 Aquatic Chronic 2 - H411	ane) and 2,2'- methylene)]bis(oxirane) and zyl]phenoxy}methyl)oxirane REACH registration number: 01- 2119454392-40-XXXX	
phenyleneoxymethylene)]bis(oxir [methylenebis(4,1-phenyleneoxyr 2-({2-[4-(oxiran-2-ylmethoxy)benz CAS number: 9003-36-5 Classification Skin Irrit. 2 - H315 Skin Sens. 1A - H317 Aquatic Chronic 2 - H411 Oxirane, mono[(C12-14-alkyloxy)	ane) and 2,2'- methylene)]bis(oxirane) and zyl]phenoxy}methyl)oxirane REACH registration number: 01- 2119454392-40-XXXX	5 - 10% REACH registration number: 01-
phenyleneoxymethylene)]bis(oxir [methylenebis(4,1-phenyleneoxyr 2-({2-[4-(oxiran-2-ylmethoxy)benz CAS number: 9003-36-5 Classification Skin Irrit. 2 - H315 Skin Sens. 1A - H317 Aquatic Chronic 2 - H411 Oxirane, mono[(C12-14-alkyloxy) CAS number: 68609-97-2	ane) and 2,2'- methylene)]bis(oxirane) and zyl]phenoxy}methyl)oxirane REACH registration number: 01- 2119454392-40-XXXX	5 - 10% REACH registration number: 01-

Solvent naphtha (petroleum)	), light arom. < 0.3%
CAS number: 64742-95-6	EC number: 265-199-0
Classification Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 STOT SE 3 - H335 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411	
The full text for all hazard sta	tements is displayed in Section 16.
Ingredient notes	Solvent naphtha (petroleum), light arom. Substance classified in accordance with Note P, Annex VI of EC Regulation (EC) 1272/2008. The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EC No. 200-753-7).
SECTION 4: First aid measur	es
4.1. Description of first aid me	easures
General information	Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel.
Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if symptoms are severe or persist.
Ingestion	Rinse mouth thoroughly with water. Get medical advice/attention if you feel unwell. Do not induce vomiting.
Skin contact	It is important to remove the substance from the skin immediately. In the event of any sensitisation symptoms developing, ensure further exposure is avoided. Remove contamination with soap and water or recognised skin cleansing agent. Get medical attention if symptoms are severe or persist after washing.
Eye contact	Rinse with water. Do not rub eye. Remove any contact lenses and open eyelids wide apart. Get medical attention if any discomfort continues.
Protection of first aiders	First aid personnel should wear appropriate protective equipment during any rescue.
4.2. Most important symptom	s and effects, both acute and delayed
General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	No specific symptoms known.
Ingestion	May cause sensitisation or allergic reactions in sensitive individuals. May cause irritation.
Skin contact	May cause skin sensitisation or allergic reactions in sensitive individuals. Redness. Causes skin irritation.
Eye contact	Causes serious eye irritation.
4.3. Indication of any immedia	ate medical attention and special treatment needed
Notes for the doctor	Treat symptomatically. May cause sensitisation or allergic reactions in sensitive individuals.
SECTION 5: Firefighting mea	sures

### 5.1. Extinguishing media

Suitable extinguishing media	The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
5.2. Special hazards arising fr	om the substance or mixture
Hazardous combustion	Thermal decomposition or combustion products may include the following substances:
products	Harmful gases or vapours.
5.3. Advice for firefighters	
Protective actions during firefighting	Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.
SECTION 6: Accidental release	se measures
6.1. Personal precautions, pro	stective equipment and emergency procedures
Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Do not touch or walk into spilled material. Avoid contact with skin and eyes. Contaminated work clothing should not be allowed out of the workplace.
6.2. Environmental precaution	IS
Environmental precautions	Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment.
6.3. Methods and material for	containment and cleaning up
Methods for cleaning up	Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Small Spillages: Collect spillage. Large Spillages: Absorb spillage with non-combustible, absorbent material. The contaminated absorbent may pose the same hazard as the spilled material. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dangerous for the environment. Do not empty into drains. For waste disposal, see Section 13.
6.4. Reference to other sectio	ns
Reference to other sections	For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.
SECTION 7: Handling and sto	prage

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Usage precautions	Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimise spills. Keep container tightly sealed when not in use. Avoid the formation of mists. Avoid discharge to the aquatic environment. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.
Advice on general occupational hygiene	Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse.
7.2. Conditions for safe storag	e, including any incompatibilities
Storage precautions	Store away from incompatible materials (see Section 10). Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage.
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 control	s/Personal protection

### 8.1. Control parameters

phenyleneoxymet	hylene)]bis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane (CAS
	9003-36-5)
ONEL	Workers - Inhalation; Long term systemic effects: 29.39 mg/m <sup>3</sup>
	Workers - Dermal; Long term systemic effects: 104.15 mg/kg/day
	Workers - Dermal; Short term local effects: 8.3 µg/cm <sup>2</sup>
PNEC	Fresh water; 0.003 mg/l
	Intermittent release; 0.025 mg/l
	marine water; 0.0003 mg/l
	STP; 10 mg/l
	Sediment (Freshwater); 0.294 mg/kg
	Sediment (Marinewater); 0.029 mg/kg
	Soil; 0.237 mg/kg
DNEL	Oxirane, mono[(C12-14-alkyloxy)methyl] derivs. (CAS: 68609-97-2) Workers - Inhalation; Long term systemic effects: 3.6 mg/m³ Workers - Dermal; Long term systemic effects: 1 mg/kg/day
DNEL	Workers - Inhalation; Long term systemic effects: 3.6 mg/m <sup>3</sup> Workers - Dermal; Long term systemic effects: 1 mg/kg/day
	Workers - Inhalation; Long term systemic effects: 3.6 mg/m <sup>3</sup>
	Workers - Inhalation; Long term systemic effects: 3.6 mg/m³ Workers - Dermal; Long term systemic effects: 1 mg/kg/day Fresh water; 0.106 mg/l
	Workers - Inhalation; Long term systemic effects: 3.6 mg/m³ Workers - Dermal; Long term systemic effects: 1 mg/kg/day Fresh water; 0.106 mg/l marine water; 0.011 mg/l STP; 10 mg/l
	Workers - Inhalation; Long term systemic effects: 3.6 mg/m³ Workers - Dermal; Long term systemic effects: 1 mg/kg/day Fresh water; 0.106 mg/l marine water; 0.011 mg/l
	Workers - Inhalation; Long term systemic effects: 3.6 mg/m³ Workers - Dermal; Long term systemic effects: 1 mg/kg/day Fresh water; 0.106 mg/l marine water; 0.011 mg/l STP; 10 mg/l Sediment (Freshwater); 307.16 mg/kg
	Workers - Inhalation; Long term systemic effects: 3.6 mg/m <sup>3</sup> Workers - Dermal; Long term systemic effects: 1 mg/kg/day Fresh water; 0.106 mg/l marine water; 0.011 mg/l STP; 10 mg/l Sediment (Freshwater); 307.16 mg/kg Sediment (Marinewater); 30.72 mg/kg
	Workers - Inhalation; Long term systemic effects: 3.6 mg/m³ Workers - Dermal; Long term systemic effects: 1 mg/kg/day Fresh water; 0.106 mg/l marine water; 0.011 mg/l STP; 10 mg/l Sediment (Freshwater); 307.16 mg/kg Sediment (Marinewater); 30.72 mg/kg Soil; 1.234 mg/l

### 8.2. Exposure controls

## Protective equipment

(III)

Appropriate engineering controls	Provide adequate ventilation. Observe any occupational exposure limits for the product or ingredients.
Eye/face protection	Wear tight-fitting, chemical splash goggles or face shield.
Hand protection	Wear protective gloves. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with European Standard EN374. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended. Recommendations for gloves: Polychloroprene - CR: thickness >= 0.5 mm; breakthrough time >= 480 min. Nitrile rubber - NBR: thickness >= 0.5 mm; breakthrough time >= 480 min. Fluorinated rubber - FKM: thickness >= 0.4 mm; breakthrough time >= 480 min.
Other skin and body protection	May cause skin sensitisation or allergic reactions in sensitive individuals. Wear appropriate clothing to prevent repeated or prolonged skin contact.
Hygiene measures	Wash after use and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.
Respiratory protection	Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with European Standard EN14387. Full face mask respirators with replaceable filter cartridges should comply with European Standard EN136. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN136.
Environmental exposure controls	Keep container tightly sealed when not in use. 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	White.
Odour	Characteristic.
Odour threshold	No information available.
рН	No information available.
Melting point	No information available.
Initial boiling point and range	No information available.
Flash point	> 100°C
Evaporation rate	No information available.
Evaporation factor	No information available.

Flammability (solid, gas)Not applicable.Upper/lower flammability or explosive limitsNo information available.Vapour pressureNo information available.Vapour densityNo information available.Relative density1.8Solubility(ies)No information available.Partition coefficientNo information available.Auto-ignition temperatureNo information available.Decomposition TemperatureNo information available.Viscosity1100 cP	
explosive limitsVapour pressureNo information available.Vapour densityNo information available.Relative density1.8Solubility(ies)No information available.Partition coefficientNo information available.Auto-ignition temperatureNo information available.Decomposition TemperatureNo information available.	
Vapour densityNo information available.Relative density1.8Solubility(ies)No information available.Partition coefficientNo information available.Auto-ignition temperatureNo information available.Decomposition TemperatureNo information available.	
Relative density1.8Solubility(ies)No information available.Partition coefficientNo information available.Auto-ignition temperatureNo information available.Decomposition TemperatureNo information available.	
Solubility(ies)No information available.Partition coefficientNo information available.Auto-ignition temperatureNo information available.Decomposition TemperatureNo information available.	
Partition coefficientNo information available.Auto-ignition temperatureNo information available.Decomposition TemperatureNo information available.	
Auto-ignition temperatureNo information available.Decomposition TemperatureNo information available.	
Decomposition Temperature No information available.	
Viscosity 1100 cP	
Explosive properties Not considered explosive.	
Oxidising properties There are no chemical groups present in the product that are associated with oxidising properties.	
9.2. Other information	
Other information Not known.	
SECTION 10: Stability and reactivity	
10.1. Reactivity	
<b>Reactivity</b> See the other subsections of this section for further details.	
10.2. Chemical stability	
StabilityStable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.	
10.3. Possibility of hazardous reactions	
Possibility of hazardous         No potentially hazardous reactions known.           reactions         Possibility of hazardous reactions known.	
10.4. Conditions to avoid	
<b>Conditions to avoid</b> There are no known conditions that are likely to result in a hazardous situation.	
10.5. Incompatible materials	
Materials to avoidNo specific material or group of materials is likely to react with the product to produce a hazardous situation.	
10.6. Hazardous decomposition products	
Hazardous decompositionDoes not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.	
SECTION 11: Toxicological information	
11.1. Information on toxicological effects	
Toxicological effects There are no data available on this product.	
Toxicological ellects There are no data available on this product.	

Acute toxicity - dermal Notes (dermal LD₅₀)	Based on available data the classification criteria are not met.
Acute toxicity - inhalation Notes (inhalation LC₅₀)	Based on available data the classification criteria are not met.
Skin corrosion/irritation Skin corrosion/irritation	Skin Irrit. 2 Causes skin irritation.
Serious eye damage/irritation Serious eye damage/irritation	Eye Irrit. 2 Causes serious eye irritation.
Respiratory sensitisation Respiratory sensitisation	Based on available data the classification criteria are not met.
Skin sensitisation Skin sensitisation	Skin Sens. 1A May cause an allergic skin reaction.
Germ cell mutagenicity Genotoxicity - in vitro	Based on available data the classification criteria are not met.
Carcinogenicity Carcinogenicity	Based on available data the classification criteria are not met.
Reproductive toxicity Reproductive toxicity - fertility	Based on available data the classification criteria are not met.
Reproductive toxicity - development	Based on available data the classification criteria are not met.
Specific target organ toxicity -	single exposure
STOT - single exposure	Not classified as a specific target organ toxicant after a single exposure.
Specific target organ toxicity -	repeated exposure
STOT - repeated exposure	Not classified as a specific target organ toxicant after repeated exposure.
Aspiration hazard Aspiration hazard	Based on available data the classification criteria are not met.
General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	No specific symptoms known.
Ingestion	May cause sensitisation or allergic reactions in sensitive individuals. May cause irritation.
Skin contact	May cause skin sensitisation or allergic reactions in sensitive individuals. Redness. Causes skin irritation.
Eye contact	Causes serious eye irritation.
Route of exposure	Ingestion Inhalation Skin and/or eye contact
Target organs	No specific target organs known.
Medical considerations	Skin disorders and allergies.
Toxicological information on in	gredients.

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane

Acute toxicity - oral	
Notes (oral LD₅₀)	LD₅₀ >2000 mg/kg, Oral, Rat
Acute toxicity - dermal	
Notes (dermal LD₅₀)	LD₅₀ >2000 mg/kg, Dermal, Rat
Skin corrosion/irritation	
Animal data	OECD 404 Acute dermal irritation / corrosion: Mildly irritating (rabbit)
Serious eye damage/irritati	on
Serious eye damage/irritation	OECD 405 Acute eye irritation / corrosion: Mildly irritating (rabbit)
Skin sensitisation	
Skin sensitisation	Local Lymph Node Assay (LLNA) - : Sensitising.
	nethylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1- ne)]bis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane
Acute toxicity - oral	
Acute toxicity oral (LD₅₀ mg/kg)	5,000.0
Species	Rat
ATE oral (mg/kg)	5,000.0
Skin corrosion/irritation	
Skin corrosion/irritation	Causes skin irritation.
Animal data	Skin irritant (rabbit, OECD Guideline 404 (Acute Dermal Irritation / Corrosion))
Skin sensitisation	
Skin sensitisation	May cause an allergic skin reaction. Local Lymph Node Assay (LLNA) - Mouse: Sensitising.
	Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.
Acute toxicity - oral	
Acute toxicity oral (LD₅₀ mg/kg)	26,800.0
Species	Rat
ATE oral (mg/kg)	26,800.0
Acute toxicity - dermal	
Acute toxicity dermal (LD₅₀ mg/kg)	4,000.0
Species	Rabbit
Skin corrosion/irritation	
Skin corrosion/irritation	Causes skin irritation.
Animal data	Moderately irritating. Rabbit
Serious eye damage/irritati	on

Serious eye damage/irritation	Slightly irritating. Rabbit
Skin sensitisation	
Summary	May cause an allergic skin reaction.
Skin sensitisation	Guinea pig maximization test (GPMT) - Guinea pig: Sensitising.
	Solvent naphtha (petroleum), light arom.
Acute toxicity - oral	
Acute toxicity oral (LD₅₀ mg/kg)	5,000.0
Species	Rat
ATE oral (mg/kg)	5,000.0
Acute toxicity - inhalation	
Acute toxicity inhalation (LC∞ dust/mist mg/l)	5.61
Species	Rat
ATE inhalation (dusts/mists mg/l)	5.61
Skin corrosion/irritation	
Summary	Causes skin irritation.
Animal data	Skin irritant (rabbit, OECD Guideline 404 (Acute Dermal Irritation / Corrosion))
Serious eye damage/irritat	ion
Summary	Conclusive data but not sufficient for classification.
Serious eye damage/irritation	OECD 405 Acute Eye Irritation / Corrosion: Non-irritant (rabbit).
Skin sensitisation	
Summary	Conclusive data but not sufficient for classification.
Skin sensitisation	Not sensitising (OECD 406, Guinea Pig Buehler test)
Germ cell mutagenicity	
Summary	Conclusive data but not sufficient for classification.
Genotoxicity - in vitro	Bacterial reverse mutation test: Negative. Gene mutation: Negative.
Genotoxicity - in vivo	Mammalian erythrocyte micronucleus test: Negative.
Specific target organ toxici	ty - single exposure
STOT - single exposure	May cause drowsiness or dizziness.
Aspiration hazard	
Summary	May be fatal if swallowed and enters airways.
12: Ecological information	

SECTION 12: Ecological information

There are no data on the ecotoxicity of this product.

### 12.1. Toxicity

Toxicity

Aquatic Chronic 2 Toxic to aquatic life with long lasting effects.

### Ecological information on ingredients.

#### 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane

Acute aquatic toxicity	
Acute toxicity - fish	LC₅₀, 96 hours: 1.5 mg/l, Fish
Acute toxicity - aquatic invertebrates	EC₅₀, 48 hours: 1.7 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC₅₀, 72 hours: 9.4 mg/l, Algae
Acute toxicity - microorganisms	IC₅₀, 3 hours: >100 mg/l, Bacteria

Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane

#### Acute aquatic toxicity

plants

Chronic aquatic toxicity

<b>`</b>		
Acute toxicity - fish	LC₅₀, 96 hours: 2.54 mg/l, Fish	
Acute toxicity - aquatic invertebrates	EC₅₀, 48 hours: 2.55 mg/l, Daphnia magna	
Acute toxicity - aquatic plants	EC₅₀, 72 hours: >1000 mg/l, Algae	
	Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	
Acute aquatic toxicity		
Acute toxicity - fish	$LC_{50}$ , 96 hours: >100 mg/l, Oncorhynchus mykiss (Rainbow trout)	
Acute toxicity - aquatic invertebrates	EL50, 48 hours: 7.2 mg/l, Daphnia magna	
Acute toxicity - aquatic plants	IC₅₀, 72 hours: 843.75 mg/l, Pseudokirchneriella subcapitata	
Chronic aquatic toxicity		
Chronic toxicity - aquatic invertebrates	NOELR, 21 days: 56 mg/l, Daphnia magna	
	Solvent naphtha (petroleum), light arom.	
Acute aquatic toxicity		
Acute toxicity - fish	$LL_{50}$ , 96 hours: 10 mg/l, Oncorhynchus mykiss (Rainbow trout)	
Acute toxicity - aquatic invertebrates	EL50, 48 hours: 4.5 mg/l, Daphnia magna	
Acute toxicity - aquatic	EL50, 72 hours: 3.1 mg/l, Pseudokirchneriella subcapitata	

Chronic toxicity - aquatic NOELR, 21 days: 2.6 mg/l, Daphnia magna invertebrates

### 12.2. Persistence and degradability

Persistence and degradability The degradability of the product is not known.

### Ecological information on ingredients.

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane
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	Persistence and degradability	The product is not readily biodegradable.
	Biodegradation	- Degradation 5%: 28 days
		2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1- nethylene)]bis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane
	Persistence and degradability	Not readily biodegradable.
	Biodegradation	- Degradation 16: 28 days
		Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.
	Persistence and degradability	The substance is readily biodegradable.
	Biodegradation	- Degradation 87%: 28 days
12.3. Bioaccu	imulative potential	
Bioaccumulat	Bioaccumulative potential No data available on bioaccumulation.	
Partition coef	ficient N	o information available.
Ecological inf	ormation on ingred	ents.
	4,4'-lso	ropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane
	Bioaccumulative po	ential BCF: 31,
Partition coefficient log		log Pow: 3.242
Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1- phenyleneoxymethylene)]bis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane		
	Bioaccumulative po	ential BCF: 150 L/kg ww, QSAR
12.4. Mobility	' in soil	
Mobility	1	o data available.
Ecological inf	ormation on ingred	ents.
		Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.
	Adsorption/desorpticon/desorpticon/desorpticon/desorpticont	on - Log Koc: > 5.63 @ 20°C

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	This product does not contain any substances classified as PBT or vPvB.
12.6. Other adverse effects	
Other adverse effects	None known.
SECTION 13: Disposal consid	erations
13.1. Waste treatment method	<u>s</u>
General information	The generation of waste should be minimised or avoided wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.
Disposal methods	Do not empty into drains. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Dispose of waste via a licensed waste disposal contractor.
SECTION 14: Transport inform	nation
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	e
Proper shipping name (ADR/RID)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (4,4'- Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane)
Proper shipping name (IMDG)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (4,4'- Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane)
Proper shipping name (ICAO)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (4,4'- Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane)
Proper shipping name (ADN)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (4,4'- Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane)
14.3. Transport hazard class(e	<u>es)</u>
ADR/RID class	9
ADR/RID classification code	M6
ADR/RID label	9
IMDG class	9
ICAO class/division	9
ADN class	9
Transport labels	
e	

#### 14.4. Packing group

ADR/RID packing group	Ш
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<br/>Annex II of MARPOL 73/78<br/>and the IBC CodeNot applicable. When carried in single or combination packagings containing a net quantity<br/>per single or inner packaging of 5 I or less, this product is not subject to provisions of ADR,<br/>IMDG and IATA.

SECTION 15: Regulatory information

15.1. Safety, health and env	rironmental regulations/legislation specific for the substance or mixture
National regulations	<ul> <li>Control of Substances Hazardous to Health Regulations 2002 (as amended).</li> <li>Health and Safety at Work etc. Act 1974 (as amended).</li> <li>The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment</li> <li>Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].</li> <li>The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use)</li> <li>(Amendment etc.) (EU Exit) Regulations 2019, UK SI 2019/720. The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2020, UK SI 2020/1567.</li> <li>The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, UK SI 2019/758, UK SI 2019/858 and UK SI 2019/1144. The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020, UK SI 2020/1577.</li> </ul>
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). Commission Regulation (EU) No 2015/830 of 28 May 2015. 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	Workplace Exposure Limits EH40.
Restrictions (Annex XVII Regulation 1907/2006)	No relevant restrictions.

Seveso Directive - Control of E2 Lower-tier 200 tonnes Upper-tier 500 tonnes. major accident hazards

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information	n
Abbreviations and acronyms	ADR: European Agreement concerning the International Carriage of Dangerous Goods by
used in the safety data sheet	Road. ADN: European Agreement concerning the International Carriage of Dangerous Goods by
	Inland Waterways.
	RID: European Agreement concerning the International Carriage of Dangerous Goods by
	Rail.
	IATA: International Air Transport Association.
	ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air. IMDG: International Maritime Dangerous Goods.
	CAS: Chemical Abstracts Service.
	ATE: Acute Toxicity Estimate.
	$LC_{50}$ : Lethal Concentration to 50 % of a test population.
	LD <sub>50</sub> : Lethal Dose to 50% of a test population (Median Lethal Dose). EC <sub>50</sub> : 50% of maximal Effective Concentration.
	PBT: Persistent, Bioaccumulative and Toxic substance.
	vPvB: Very Persistent and Very Bioaccumulative.
Classification abbreviations	Eye Irrit. = Eye irritation
and acronyms	Skin Irrit. = Skin irritation
	Skin Sens. = Skin sensitisation
	Aquatic Chronic = Hazardous to the aquatic environment (chronic)
Key literature references and sources for data	Raw material suppliers SDS. Source: European Chemicals Agency, http://echa.europa.eu/
Classification procedures	Skin Irrit. 2 - H315: Eye Irrit. 2 - H319: Skin Sens. 1A - H317: : Calculation method. Aquatic
according to Regulation (EC) 1272/2008	Chronic 2 - H411: : Calculation method.
Training advice	Only trained personnel should use this material.
Revision comments	This is the first issue.
Revision date	13/05/2022
Revision	1
SDS number	20566
SDS status	Approved.
Hazard statements in full	<ul> <li>H226 Flammable liquid and vapour.</li> <li>H304 May be fatal if swallowed and enters airways.</li> <li>H315 Causes skin irritation.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H319 Causes serious eye irritation.</li> <li>H335 May cause respiratory irritation.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> </ul>

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.