SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR PREPARATION AND THE COMPANY

1.1 Product Identifier

Product Name: Cretex EP - Base Part A

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

Material uses: Civil Engineering
Composites

1.3 Details of the supplier of the safety data sheet

Company Name: Polycote UK LLP
Centre Point
Wolseley Road
Woburn Road Industrial Estate
Kempston
Beds
MK42 7EF

Telephone Number: 01234 846400

Emergency Contact Number: 111 (NHS England)

Email address: uksales@polycote.com

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

Skin corrosion/irritation Category 2 - (H315)
Serious eye damage/eye irritation Category 2 - (H319)
Skin sensitisation Category 1 - (H317)
Reproductive toxicity Category 1B - (H360F)
Chronic aquatic toxicity Category 2 - (H411)

2.2 Label elements

Contains 2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE; OXIRANE, MONO [(C12-14-ALKYLOXY)METHYL] DERIVS; 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

Signal word: Danger

Hazard pictograms:

Hazard statements:
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H360F - May damage fertility
H411 - Toxic to aquatic life with long lasting effects

Precautionary statements:
P201 - Obtain special instructions before use
P261 - Avoid breathing mist/vapours/spray
P273 - Avoid release to the environment
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P308 + P313 - IF exposed or concerned: Get medical advice/attention
P391 - Collect spillage

Unknown aquatic toxicity Contains 0 % of components with unknown hazards to the aquatic environment.

2.3 Other hazards: No information available.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substance:
Non-applicable

3.2 Mixture:

Chemical name	Weight-%	EC No (EU Index No)	UK REACH registration number	Classification according to GB CLP (SI 2020/1567 as amended)	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE 1675-54-3	>= 50 - <75%	216-823-5 (603-073-00-2)	-	Skin Irrit. 2 (H315) Skin Sens. 1B (H317) Eye Irrit. 2 (H319) Aquatic Chronic 2 (H411)	Skin Irrit. 2, H315 ::C>=5% Eye Irrit. 2, H319 ::C>=5%		

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS (continue)

Chemical name	Weight-%	EC No (EU Index No)	UK REACH registration number	Classification according to GB CLP (SI 2020/1567 as amended)	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
REACTION MASS OF 2,2'-[METHYLENEBIS(2,1-PHENYLENE OXYMETHYLENE)] BIS(OXIRANE) AND 2,2'-[METHYLENEBIS(4,1-PHENYLENE OXYMETHYLENE)] BIS(OXIRANE) AND 2-({ 2-[4-(OXIRAN-2-YL METHOXY)BENZYL]PHENOXY} METHYL)OXIRANE -	>= 10 - < 20%	701-263-0	-	Skin Irrit. 2 (H315) Skin Sens. 1A (H317) Aquatic Chronic 2 (H411)	-	-	-
OXIRANE, MONO [(C12-14-ALKYLOXY)METHYL] DERIVS 68609-97-2	>= 10 - < 20%	271-846-8 (603-103-00-4)	-	Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Repr. 1B (H360F)	-	-	-

Full text of H- and EUH-phrases: see section 16

This product does not contain candidate substances of very high concern at a concentration >= 0.1% (UK REACH Article 59)

SECTION 4: FIRST-AID MEASURES

4.1 Description of first aid measures:

General advice: First aid personnel should wear appropriate protective equipment during any rescue. Use personal protection recommended in Section 8.

Inhalation: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Rinse mouth thoroughly with water. Get medical attention if symptoms occur.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if symptoms occur.

Skin contact: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Discard items which cannot be decontaminated, including leather articles such as shoes, belts and watchbands. Get medical attention if symptoms occur.

Ingestion: Rinse mouth thoroughly with water. Do not induce vomiting without medical advice. Get medical attention if symptoms occur.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: May damage fertility.

Eyes: Causes serious eye irritation.

Dermal: Causes skin irritation. May cause an allergic skin reaction.

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

Note to doctors: Treat symptomatically. Treat any burns as thermal burns, after decontamination. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media: Dry chemical, CO2, alcohol-resistant foam or water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Large Fire: CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

5.2 Special hazards arising from the substance or mixture:

Specific hazards arising from the chemical: When heated and in case of fire, toxic vapours/gases may be formed. Containers can burst violently when heated, due to excess pressure build-up. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids.

Hazardous combustion products: Carbon oxides.

5.3 Advice for firefighters:

Special protective equipment and precautions for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Personal precautions: Ensure adequate ventilation. Use personal protection recommended in Section 8. Avoid contact with skin, eyes and inhalation of vapours. Evacuate personnel to safe areas. Keep unnecessary and unprotected personnel from entering.

Other information: Refer to protective measures listed in Sections 7 and 8.

For emergency responders: Use personal protection recommended in Section 8.

6.2 Environmental precautions: Prevent further leakage or spillage if safe to do so.

6.3 Methods and material for containment and cleaning up:

Methods for containment: Prevent further leakage or spillage if safe to do so.

Methods for cleaning up: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Pick up and transfer to properly labelled containers.

Prevention of secondary hazards: Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4 Reference to other sections: See section 8 for more information. See section 13 for more information.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

Advice on safe handling: Ensure adequate ventilation. Use personal protection recommended in Section 8. Avoid contact with skin, eyes and inhalation of vapours. Wash skin thoroughly after handling. Spills of these organic materials on hot fibrous insulations may lead to lowering of the autoignition temperatures possibly resulting in spontaneous combustion.

General hygiene considerations: Wash hands before breaks and immediately after handling the product.

7.2 Conditions for safe storage, including any Incompatibilities:

Storage Conditions: Keep container tightly closed in a dry and well-ventilated place. Keep at temperatures between 5 and 30 °C.

7.3 Specific end use(s)

Specific use(s): See section 1 for more information.

Risk Management Methods (RMM): The information required is contained in this Safety Data Sheet.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Exposure Limits: This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Biological occupational exposure limits: This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE 1675-54-3	-	0.75 mg/kg bw/day [4] [6]	4.93 mg/m3 [4] [6]
OXIRANE, MONO [(C12-14-ALKYLOXY)METHYL] DERIVS 68609-97-2	-	1 mg/kg bw/day [4] [6]	3.6 mg/m3 [4] [6]

[4] Systemic health effects.
[5] Local health effects.
[6] Long term

Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE 1675-54-3	0.5 mg/kg bw/day [4] [6]	-	0.87 mg/m3 [4] [6]
OXIRANE, MONO [(C12-14-ALKYLOXY)METHYL] DERIVS 68609-97-2	0.5 mg/kg bw/day [4] [6]	-	0.87 mg/m3 [4] [6]

[4] Systemic health effects.
[5] Local health effects.
[6] Long term

Predicted No Effect Concentration (PNEC)

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE 1675-54-3	0.006 mg/L	0.018 mg/L	0.0006 mg/L	0.0018 mg/L	-

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continue)

Predicted No Effect Concentration (PNEC)

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
OXIRANE, MONO [(C12-14-ALKYLOXY)METHYL] DERIVS 68609-97-2	0.1058 mg/L	0.072 mg/L	0.00072 mg/L	-	-

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE 1675-54-3	0.341 mg/kg sediment dw	0.0341 mg/kg sediment dw	10 mg/L	0.0647 mg/kg soil dw	11 mg/kg food
OXIRANE, MONO [(C12-14-ALKYLOXY)METHYL] DERIVS 68609-97-2	66.77 mg/kg	6.677 mg/kg	10 mg/L	80.12 mg/kg	10 mg/L

8.2 Exposure controls

Engineering controls: No information available.

Personal protective equipment

Eye/face protection: Wear safety glasses with side shields (or goggles). Use eye protection according to EN 166.

Hand protection: Wear suitable gloves. Gloves must conform to standard EN 374.

Duration of contact	PPE - Glove material	Glove thickness	Break through time
-	Polyvinyl alcohol (PVA)	> 0.35 mm	>= 480 minutes
-	Wear protective butyl rubber gloves	> 0.35 mm	>= 480 minutes
-	Wear protective Viton™ gloves	> 0.35 mm	>= 480 minutes

Skin and body protection: Wear appropriate clothing to prevent reasonably probable skin contact.

Respiratory protection: Use appropriate respiratory protection.

Recommended filter type: Organic gases and vapours filter conforming to EN 14387. Type A.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state:	Liquid
Appearance:	Liquid
Colour:	Colourless to pale yellow
Odour:	Characteristic
Odour threshold:	Not applicable

Property	Values	Remarks • Method
Melting point / freezing point:		Not applicable
Initial boiling point and boiling range:	> 100 °C	Read-across
Flammability:		Not applicable
Flammability Limit in Air:		No information available.
Upper flammability or explosive limits:		
Lower flammability or explosive limits:		
Flash point:	> 100 °C	Closed cup.
Autoignition temperature:		No information available.
Decomposition temperature:		No information available.
pH:		Not applicable.
pH (as aqueous solution):		No information available.
Kinematic viscosity:		No information available.
Dynamic viscosity:	1300 mPa s	@ 20 °C. Calculation method.
Water solubility:	Insoluble in water	
Solubility(ies):		No information available.
Partition coefficient:		No information available.
Vapour pressure:	< 5 hPa	@ 50 °C. Read-across.
Relative density:	1.12	@ 25 °C. Calculation method.
Bulk density:		No information available
Liquid Density:	No information available	No information available
Relative vapour density:		No information available.
Particle characteristics:		No information available.
Particle Size:	No information available	
Particle Size Distribution:	Distribution No information available	
Explosive properties:	Not considered to be explosive.	
Oxidising properties:	Does not meet the criteria for classification as oxidising	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continue)

9.2 Other information	-

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity: No information available.

10.2 Chemical stability:

Stability: Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact: None

Sensitivity to static discharge: None

10.3 Possibility of hazardous reactions: Will not occur by itself. Masses of more than one pound (0.5 kg) of product plus an aliphatic amine will cause irreversible polymerization with considerable heat build-up.

10.4 Conditions to avoid: Avoid short term exposures to temperatures above 300°C (572°F). Potentially violent decomposition can occur above 350°C (662°). Avoid prolonged exposure to temperatures above 250°C (482°F). Generation of gas during decomposition can cause pressure in closed systems. Pressure build-up can be rapid.

10.5 Incompatible materials: Acids. Bases. Avoid unintended contact with:. Amines.

10.6 Hazardous decomposition products: Carbon oxides. Phenolic. Uncontrolled exothermic reaction of epoxy resins release phenolics, carbon monoxide, and water.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects:

Information on likely routes of exposure

Product Information

Inhalation: Inhalation of vapours in high concentration may cause irritation of respiratory system.

Eye contact: Corneal injury is unlikely.

Skin contact: Causes skin irritation. Brief contact may cause moderate skin irritation with local redness. May cause an allergic skin reaction.

Ingestion: May cause discomfort if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms: May damage fertility.

Acute toxicity

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

Oral LD50: Oral LD50 > 10000 mg/kg

Dermal LD50: Dermal LD50 > 5000 mg/kg

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
2,2'-[(1-METHYLETHYLIDENE) BIS(4,1-PHENYLENEOXYMET HYLENE)]BISOXIRANE	> 15000 mg/kg (Rat)	= 23000 mg/kg (Rabbit)	-
REACTION MASS OF 2,2'-[METHYLENEBIS(2,1-PHE NYLENEOXYMETHYLENE)]BI S(OXIRANE) AND 2,2'-[METHYLENEBIS(4,1-PHE NYLENEOXYMETHYLENE)]BI S(OXIRANE) AND 2-({ 2-[4-(OXIRAN-2-YLMETHOXY) BENZYL]PHENOXY} METHYL)OXIRANE	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
OXIRANE, MONO [(C12-14-ALKYLOXY)METHYL] DERIVS	26000 mg/kg (Rat)	> 3987 mg/kg (Rabbit)	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation: Causes skin irritation. Brief contact may cause moderate skin irritation with local redness.

2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE (1675-54-3)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Causes skin irritation
					Prolonged contact may cause redness and irritation

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 (-)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Causes skin irritation
					Brief contact may cause moderate skin irritation with local redness. Effects may be slow to heal. Repeated exposure may cause irritation, even a burn May cause more severe response if skin is abraded (scratched or cut).

SECTION 11: TOXICOLOGICAL INFORMATION (continue)

11.1. Information on toxicological effects:

Information on likely routes of exposure

Product Information

Inhalation: Inhalation of vapours in high concentration may cause irritation of respiratory system.

Eye contact: Corneal injury is unlikely.

Skin contact: Causes skin irritation. Brief contact may cause moderate skin irritation with local redness. May cause an allergic skin reaction.

Ingestion: May cause discomfort if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms: May damage fertility.

Acute toxicity

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

Oral LD50: Oral LD50 > 10000 mg/kg

Dermal LD50: Dermal LD50 > 5000 mg/kg

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
2,2'-[(1-METHYLETHYLIDENE) BIS(4,1-PHENYLENEOXYMET HYLENE)]BISOXIRANE	> 15000 mg/kg (Rat)	= 23000 mg/kg (Rabbit)	-
REACTION MASS OF 2,2'-[METHYLENEBIS(2,1-PHE NYLENEOXYMETHYLENE)]BI S(OXIRANE) AND 2,2'-[METHYLENEBIS(4,1-PHE NYLENEOXYMETHYLENE)]BI S(OXIRANE) AND 2-({ 2-[4-(OXIRAN-2-YLMETHOXY) BENZYL]PHENOXY} METHYL)OXIRANE	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
OXIRANE, MONO [(C12-14-ALKYLOXY)METHYL] DERIVS	26000 mg/kg (Rat)	> 3987 mg/kg (Rabbit)	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation: Causes skin irritation. Brief contact may cause moderate skin irritation with local redness.

2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE (1675-54-3)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Causes skin irritation
					Prolonged contact may cause redness and irritation

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 (-)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Causes skin irritation
					Brief contact may cause moderate skin irritation with local redness. Effects may be slow to heal. Repeated exposure may cause irritation, even a burn May cause more severe response if skin is abraded (scratched or cut).

OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS (68609-97-2)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Causes skin irritation
					Prolonged contact may cause redness and irritation. Repeated contact may cause skin burns. Symptoms may include pain, severe local redness, swelling, and tissue damage

Serious eye damage/eye irritation: Causes serious eye irritation. Corneal injury is unlikely. Vapor may cause eye irritation experienced as mild discomfort and redness.

2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE (1675-54-3)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Causes serious eye irritation

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 (-)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					May cause slight eye irritation

SECTION 11: TOXICOLOGICAL INFORMATION (continue)

OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS (68609-97-2)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					May cause slight eye irritation Corneal injury is unlikely .Vapor may cause eye irritation experienced as mild discomfort and redness.

Respiratory or skin sensitisation: May cause an allergic skin reaction.

2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE (1675-54-3)

Method	Species	Exposure route	Results
	Human evidence Mouse	Dermal	May cause an allergic skin reaction

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 (-)

Method	Species	Exposure route	Results
	Guinea pig Mouse	Dermal	May cause an allergic skin reaction

OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS (68609-97-2)

Method	Species	Exposure route	Results
	Guinea pig	Dermal	May cause an allergic skin reaction

Germ cell mutagenicity: No information available.

2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE (1675-54-3)

Method	Species	Results
	in vitro	In vitro genetic toxicity studies were negative in some cases and positive in other cases.
		Negative Did not show mutagenic effects in animal experiments

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 (-)

Method	Species	Results
	in vitro	Positive
		Negative Did not show mutagenic effects in animal experiments

OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS (68609-97-2)

Method	Species	Results
	in vitro	In vitro genetic toxicity studies were negative in some cases and positive in other cases.
		Negative Did not show mutagenic effects in animal experiments

Carcinogenicity: Many studies have been conducted to assess the potential carcinogenicity of diglycidyl ether of bisphenol A (DGEBPA). Indeed, the most recent review of the available data by the International Agency for Research on Cancer (IARC) has concluded that DGEBPA is not classified as a carcinogen. Although some weak evidence of carcinogenicity has been reported in animals, when all of the data are considered, the weight of evidence does notshow that DGEBPA is carcinogenic.

2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE (1675-54-3)

Method	Species	Results
		Many studies have been conducted to assess the potential carcinogenicity of diglycidyl ether of bisphenol A (DGEBPA). Indeed, the most recent review of the available data by the International Agency for Research on Cancer (IARC) has concluded that DGEBPA is not classified as a carcinogen. Although some weak evidence of carcinogenicity has been reported in animals, when all of the data are considered, the weight of evidence does not show that DGEBPA is carcinogenic.

Reproductive toxicity: May damage fertility. Resins based on the diglycidyl ether of bisphenol A (DGEBPA) did not cause birth defects or other adverse effects on the foetus when pregnant rabbits were exposed by skin contact, the most likely route of exposure, or when pregnant rats or rabbits were exposed orally.

SECTION 11: TOXICOLOGICAL INFORMATION (continue)

2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE (1675-54-3)

Method	Species	Results
		Did not cause birth defects or any other foetal effects in laboratory animals.
		Resins based on the diglycidyl ether of bisphenol A (DGEBPA) did not cause birth defects or other adverse effects on the foetus when pregnant rabbits were exposed by skin contact, the most likely route of exposure, or when pregnant rats or rabbits were exposed orally.

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 (-)

Method	Species	Results
		In animal studies, did not interfere with reproduction
		Did not cause birth defects or any other foetal effects in laboratory animals.

OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS (68609-97-2)

Method	Species	Results
		May damage fertility
		Did not cause birth defects or any other foetal effects in laboratory animals.

STOT - single exposure: Evaluation of available data suggests that this material is not an STOT-SE toxicant.

2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE (1675-54-3)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Evaluation of available data suggests that this material is not an STOT-SE toxicant

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 (-)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					The substance or mixture is not classified as specific target organ toxicant, single exposure.

OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS (68609-97-2)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Evaluation of available data suggests that this material is not an STOT-SE toxicant

STOT - repeated exposure: Data is for major component in product. Except for skin sensitization, repeated exposures to low molecular weight epoxy resins of this type are not anticipated to cause any significant adverse effects.

2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE (1675-54-3)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Except for skin sensitization, repeated exposures to low molecular weight epoxy resins of this type are not anticipated to cause any significant adverse effects.

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 (-)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Based on available data, repeated exposures are not anticipated to cause additional significant adverse effects.

OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS (68609-97-2)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Based on available data, repeated exposures are not anticipated to cause additional significant adverse effects.

Aspiration hazard: Based on available data the classification criteria are not met.

Other adverse effects: No information available.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity: Toxic to aquatic life with long lasting effects.

Unknown aquatic toxicity: Contains 0 % of components with unknown hazards to the aquatic environment.

2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE (1675-54-3)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
	Oncorhynchus mykiss (rainbow trout)	LC50	2 mg/L	96 hours	
	Daphnia magna	EC50	1.8 mg/L	48 hours	
	Scenedesmus capricornutum	ErC50	>11 mg/L	72 hours	
	Bacteria	IC50	42.6 mg/L	18 hours	
	Daphnia magna	NOEC	0.3 mg/L	21 days	
	Daphnia magna	MATC	0.55 mg/L	21 days	

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 (-)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
	Freshwater Fish	LC50	2.54 mg/L	96 hours	
OECD Test No. 202: Daphnia sp., Acute Immobilisation Test or Equivalent.	Daphnia magna	EC50	> 1000 mg/L	48 hours	
OECD Test No. 201: Freshwater Algae and Cyanobacteria, Growth Inhibition Test	Selenastrum capricornutum	EC50	> 1.8 mg/L	72 hours	
	activated sludge		> 100 mg/L	3 hours	
OECD Test No. 211: Daphnia magna Reproduction Test	Daphnia magna	NOEC	0.3 mg/L	21 days	

OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS (68609-97-2)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
	Lepomis macrochirus	LC50	1800 mg/L	96 hours	
	Pseudokirchneriella subcapitata	EbC50	843 mg/L	72 hours	
	Pseudokirchneriella subcapitata	NOEC	500 mg/L	72 hours	
	activated sludge	EC50	> 100 mg/L	3 hours	

12.2. Persistence and degradability

Persistence and degradability: No information available.

2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE (1675-54-3)

Method	Exposure time	Value	Results
OECD Test No. 302B: Inherent Biodegradability: Zahn-Wellens/ EVPA Test or Equivalent.	28 days	Biodegradation 12%	Not readily biodegradable

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 (-)

Method	Exposure time	Value	Results
	28 days	Biodegradation 0%	Not readily biodegradable

OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS (68609-97-2)

Method	Exposure time	Value	Results
OECD Test No. 301F: Ready Biodegradability: Manometric Respirometry Test (TG 301 F) or Equivalent.	28 days	Biodegradation 87%	Readily biodegradable

12.3. Bioaccumulative potential

Bioaccumulation: There is no data for this product.

Component Information

Chemical name	Partition coefficient
2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE	3.242

SECTION 12: ECOLOGICAL INFORMATION (continue)

Chemical name	Partition coefficient
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	3.6
OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS	3.77

12.4. Mobility in soil Insoluble.

12.5. Results of PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB.

Component Information

Chemical name	PBT and vPvB assessment
2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE	The substance is not PBT / vPvB
OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS	The substance is not PBT / vPvB

12.6. Other adverse effects No information available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste from residues/unused products: Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging: Do not reuse empty containers.

SECTION 14: TRANSPORT INFORMATION

IATA

14.1	**UN number:**	UN3082
14.2	**UN proper shipping name:**	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE, 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)
14.3	**Transport Hazard Class(es):**	9
14.4	**Packing group**	III
14.5	**Environmental hazards:**	Yes
14.6	**Special precautions for user**	
	Special Provisions:	A97, A158, A197
	ERG Code:	9L

IMDG

14.1	**UN number:**	UN3082
14.2	**UN proper shipping name:**	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE, 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)
14.3	**Transport Hazard Class(es):**	9
14.4	**Packing group**	III
14.5	**Marine pollutant:**	Yes
14.6	**Special precautions for user**	
	Special Provisions:	274, 335, 969
	EmS-No:	F-A, S-F
14.7	**Maritime transport in bulk according to IMO instruments**	No information available

RID

14.1	**UN number:**	UN3082
14.2	**UN proper shipping name:**	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE, 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)
14.3	**Transport Hazard Class(es):**	9
14.4	**Packing group**	III
14.5	**Environmental hazards:**	Yes

SECTION 14: TRANSPORT INFORMATION (continue)

14.6 Special precautions for user

Special Provisions: 274, 335, 375, 601
Classification code: M6

ADR

14.1 UN number: UN3082

14.2 UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE, 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)

14.3 Transport Hazard Class(es): 9

14.4 Packing group: III

14.5 Environmental hazards: Yes

14.6 Special precautions for user

Special Provisions: 274, 335, 601, 375
Classification code: M6
Tunnel restriction code: (-)

SECTION 15: REGULATORY INFORMATION

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

Authorisations and/or restrictions on use:
This product contains one or more substances subject to restriction (UK REACH - Annex XVII).
This product does not contain substances subject to authorisation (UK REACH - Annex XIV).

Product restricted per REACH Annex XVII: 75, 3

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorisation per REACH Annex XIV
2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE - 1675-54-3	75	-
OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS - 68609-97-2	75.	-

Persistent Organic Pollutants
Not applicable

Export Notification requirements
Not applicable

Dangerous substance category per COMAH Regulations 2015 (as amended)
E2 - Hazardous to the Aquatic Environment in Category Chronic 2

Named dangerous substances per COMAH Regulations 2015 (as amended)
Not applicable

The Ozone-Depleting Substances Regulations 2015
Not applicable

The Biocidal Products Regulations 2001 (as amended)
Not applicable

The Water Environment (Water Framework Directive) (England and Wales) Regulations 2017 (as amended)
Not applicable

Poisons Act 1972 (Explosive Precursors) Regulations (as Amended)
Not applicable

International Inventories

TSCA: Contact supplier for inventory compliance status
DSL/NDSL: Contact supplier for inventory compliance status
EINECS/ELINCS: Contact supplier for inventory compliance status
ENCS: Contact supplier for inventory compliance status
IECSC: Contact supplier for inventory compliance status
KECI: Contact supplier for inventory compliance status
PICCS: Contact supplier for inventory compliance status
AIIC: Contact supplier for inventory compliance status
NZIoC: Contact supplier for inventory compliance status

Legend
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances

SECTION 15: REGULATORY INFORMATION (continue)

IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AIIC - Australian Inventory of Industrial Chemicals
NZIoC - New Zealand Inventory of Chemicals

15.2. Chemical safety assessment

Chemical Safety Report: Chemical Safety Assessments have been carried out for these substances

SECTION 16: OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3:
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H360F - May damage fertility
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects
H411 - Toxic to aquatic life with long lasting effects

Legend
SVHC: Substances of Very High Concern for Authorisation:
Legend Section 8: Exposure controls/personal protection

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
+	Sensitisers		

Classification procedure

Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity:	Calculation method
Acute dermal toxicity:	Calculation method
Acute inhalation toxicity - gas:	Calculation method
Acute inhalation toxicity - vapour:	Calculation method
Acute inhalation toxicity - dust/mist:	Calculation method
Skin corrosion/irritation:	Calculation method
Serious eye damage/eye irritation:	Calculation method
Respiratory sensitisation:	Calculation method
Skin sensitisation:	Calculation method
Mutagenicity:	Calculation method
Carcinogenicity:	Calculation method
STOT - single exposure:	Calculation method
STOT - repeated exposure:	Calculation method
Acute aquatic toxicity:	Calculation method
Chronic aquatic toxicity:	Calculation method
Aspiration hazard:	Calculation method
Ozone:	Calculation method

Key literature references and sources for data used to compile the SDS
Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)
European Chemicals Agency (ECHA) (ECHA_API)
Environmental Protection Agency
Acute Exposure Guideline Level(s) (AEGL(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
National Institute of Technology and Evaluation (NITE)
Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine's PubMed database (NLM PUBMED)
U.S. National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme

SECTION 16: OTHER INFORMATION (continue)

Organisation for Economic Co-operation and Development Screening Information Data Set
World Health Organization

SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR PREPARATION AND THE COMPANY

1.1 Product Identifier

Product Name: Cretex EP - Hardener (Part B)

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

Recommended use: Relevant uses: All uses not specified in this section or in section 7.3
Uses advised against: All uses not specified in this section or in section 7.3

1.3 Details of the supplier of the safety data sheet

Company Name: Polycote UK LLP
Centre Point
Wolseley Road
Woburn Road Industrial Estate
Kempston
Beds
MK42 7EF

Telephone Number: 01234 846400

Emergency Contact Number: 111 (NHS England)

Email address: uksales@polycote.com

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

GB CLP Regulation (UK S.I. 2019/720 and UK S.I. 2020/1567):
Classification of this product has been carried out in accordance with GB CLP Regulation (UK S.I. 2019/720 and UK S.I.2020/1567).
Acute Tox. 4: Acute toxicity, Category 4, H302+H332
Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard, Category 3, H412
Eye Dam. 1: Serious eye damage, Category 1, H318
Repr. 2: Reproductive toxicity, Category 2, H361d
Skin Corr. 1B: Skin corrosion, Category 1B, H314
Skin Sens. 1A: Sensitisation, skin, Category 1A, H317

2.2 Label elements

GB CLP Regulation (UK S.I. 2019/720 and UK S.I. 2020/1567):

Hazard pictograms:

Signal word: Danger

Hazard statements: Acute Tox. 4: H302+H332 - Harmful if swallowed or if inhaled.
Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.
Repr. 2: H361d - Suspected of damaging the unborn child.
Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.
Skin Sens. 1A: H317 - May cause an allergic skin reaction.

Precautionary statements: P280: Wear protective gloves/face protection/protective clothing/respiratory protection/protective footwear.
P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313: IF exposed or concerned: Get medical advice/attention.
P501: Dispose of the contents and/or its container in line with regulations on dangerous waste or packaging and waste packaging respectively.

Supplementary information: EUH071: Corrosive to the respiratory tract.
Contains m-phenylenebis(methylamine).

Substances that contribute to the classification: benzyl alcohol; 3-aminomethyl-3,5,5-trimethylcyclohexylamine; 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine; Salicylic acid

2.3 Other hazards: Product does not meet PBT/vPvB criteria
Endocrine-disrupting properties: The product does not meet the criteria.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substance:
Not relevant

3.2 Mixture:
Chemical description:
Components: In accordance with Annex II of The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020, the product contains:

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS (continue)

Identification	Chemical name/Classification	Concentration
CAS: 100-51-6 EC: 202-859-9 REACH: 01-2119492630-38-XXXX	**benzyl alcohol** Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Sens. 1B: H317 - Warning	**25 - <50 %**
CAS: 2855-13-2 EC: 220-666-8 REACH: 01-2119514687-32-XXXX	**3-aminomethyl-3,5,5-trimethylcyclohexylamine** Acute Tox. 4: H302; Eye Dam. 1: H318; Skin Corr. 1B: H314; Skin Sens. 1A: H317 - Danger	**10 -<25 %**
CAS: 38294-64-3 EC: 500-101-4 REACH: 01-2119965165-33-XXXX	**4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine** Aquatic Chronic 3: H412; Eye Dam. 1: H318; Skin Corr. 1B: H314; Skin Sens. 1: H317 - Danger	**10 -<25 %**
CAS: 69-72-7 EC: 200-712-3 REACH: 01-2119486984-17-XXXX	**Salicylic acid** Acute Tox. 4: H302; Eye Dam. 1: H318; Repr. 2: H361d - Danger	**2.5 -<10 %**
CAS: 1477-55-0 EC: 216-032-5 REACH: 01-2119480150-50-XXXX	**m-phenylenebis(methylamine)** Acute Tox. 4: H302+H332; Aquatic Chronic 3: H412; Eye Dam. 1: H318; Skin Corr. 1B: H314; Skin Sens. 1B: H317; EUH071 - Danger	**2.5 -<10 %**

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

Acute toxicity estimate for the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or as determined in accordance with Annex I to that Regulation:

Identification	Acute toxicity		Genus
benzyl alcohol CAS: 100-51-6 EC: 202-859-9	LD50 oral	1200 mg/kg	
	LD50 dermal	Not relevant	
	LC50 inhalation vapour	Not relevant	
3-aminomethyl-3,5,5-trimethylcyclohexylamine CAS: 2855-13-2 EC: 220-666-8	LD50 oral	1030 mg/kg	Rat
	LD50 dermal	Not relevant	
	LC50 inhalation vapour	Not relevant	
Salicylic acid CAS: 69-72-7 EC: 200-712-3	LD50 oral	891 mg/kg	Rat
	LD50 dermal	Not relevant	
	LC50 inhalation vapour	Not relevant	
m-phenylenebis(methylamine) CAS: 1477-55-0 EC: 216-032-5	LD50 oral	1090 mg/kg	Rat
	LD50 dermal	Not relevant	
	LC50 inhalation vapour	10.672 mg/L *	

*Equivalent ATE value of the substance applicable to the exposure route of the product. For the ATE value associated with the exposure route of the substance, see section 11.

SECTION 4: FIRST-AID MEASURES

4.1 Description of first aid measures:

Request medical assistance immediately, showing the SDS of this product.

By inhalation: Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

By skin contact: Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact: Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration: Request immediate medical assistance, showing the SDS of this product. Do not induce vomiting, because its expulsion from the stomach can be hazardous to the mucus of the main digestive tract, and also risk damage to the respiratory system through inhalation. Rinse out the mouth and throat, as they may have been affected during ingestion. In the case of loss of consciousness do not administer anything orally unless supervised by a doctor. Keep the person affected at rest.

4.2 Most important symptoms and effects, both acute and delayed

Acute and delayed effects are indicated in sections 2 and 11.

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

Not relevant

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media:

SECTION 5: FIRE-FIGHTING MEASURES (continue)	
Suitable Extinguishing Media:	Product is non-flammable under normal conditions of storage, handling and use. In the case of combustion as a result of improper handling, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.
Unsuitable extinguishing media:	Non-applicable
5.2 Special hazards arising from the substance or mixture:	As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.
5.3 Advice for firefighters:	Depending on the magnitude of the fire it may be necessary to use full protective clothing and Self Contained Breathing Apparatus. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)
Additional provisions:	Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES	
6.1 Personal precautions, protective equipment and emergency procedures:	
For non-emergency personnel:	Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.
For emergency responders:	Wear protective equipment. Keep unprotected persons away. See section 8.
6.2 Environmental precautions:	Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.
6.3 Methods and material for containment and cleaning up:	It is recommended: Prevent the entrance of product in drains, sewers or watercourses. Absorb the spill using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. Collect the product in appropriate containers and manage it according to current legislation. Spillages in water or sea: Small spillages: Contain spillage using barriers or similar equipment. Use suitable absorbents for collection and treat the waste in accordance with current regulations. Large spillages: If possible, contain spillage in open water using barriers or similar equipment. If this is not possible, try to control its spread and collect the product with suitable mechanical means. Always consult experts before using dispersants and make sure you have the necessary approvals if they are to be used. Treat the waste according to current regulations.
6.4 Reference to other sections:	See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE	
7.1 Precautions for safe handling:	**A.- General precautions for safe use** Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6). **B.- Technical recommendations for the prevention of fires and explosions** Product is non-flammable under normal conditions of storage, handling and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided. **C.- Technical recommendations on general occupational hygiene** PREGNANT WOMEN SHOULD NOT BE EXPOSED TO THIS PRODUCT. Transfer in designated areas that comply with the necessary safety conditions (emergency showers and eyewash stations in close proximity), using personal protection equipment, especially on the hands and face (See section 8). Limit manual transfers to small amounts only. Do not eat or drink during the process, washing hands afterwards with suitable cleaning products. **D.- Technical recommendations to prevent environmental risks** Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.
7.2 Conditions for safe storage, including any Incompatibilities:	**A.- Technical measures for storage** Minimum Temp: 5 °C Maximum Temp: 30 °C Maximum time: 6 Months **B.- General conditions for storage** Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5
7.3 Specific end use(s)	Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be assessed in the workplace:

There are no applicable occupational exposure limits for the substances contained in the product

DNEL (Workers):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
benzyl alcohol CAS: 100-51-6 EC: 202-859-9	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	40 mg/kg	Not relevant	8mg/kg	Not relevant
	Inhalation	110 mg/m³	Not relevant	22 mg/m³	Not relevant
3-aminomethyl-3,5,5-trimethylcyclohexylamine CAS: 2855-13-2 EC: 220-666-8	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	Not relevant	Not relevant
	Inhalation	Not relevant	Not relevant	Not relevant	0.073 mg/m³
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine CAS: 38294-64-3 EC: 500-101-4	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	0.14 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	0.493 mg/m³	Not relevant
Salicylic acid CAS: 69-72-7 EC: 200-712-3	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	2.3 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	5 mg/m³	5 mg/m³
m-phenylenebis(methylamine) CAS: 1477-55-0 EC: 216-032-5	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	0.33 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	1.2 mg/m³	0.2 mg/m³

DNEL (General population)

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
benzyl alcohol CAS: 100-51-6 EC: 202-859-9	Oral	20 mg/kg	Not relevant	4 mg/kg	Not relevant
	Dermal	20 mg/kg	Not relevant	4 mg/kg	Not relevant
	Inhalation	27 mg/m³	Not relevant	5.4 mg/m³	Not relevant
3-aminomethyl-3,5,5-trimethylcyclohexylamine CAS: 2855-13-2 EC: 220-666-8	Oral	Not relevant	Not relevant	0.526 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	Not relevant	Not relevant
	Inhalation	Not relevant	Not relevant	Not relevant	Not relevant
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine CAS: 38294-64-3 EC: 500-101-4	Oral	Not relevant	Not relevant	0.05 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	0.05 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	0.074 mg/m³	Not relevant
Salicylic acid CAS: 69-72-7 EC: 200-712-3	Oral	4 mg/kg	Not relevant	1 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	1 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	4 mg/m³	Not relevant

PNEC:

Identification				
benzyl alcohol CAS: 100-51-6 EC: 202-859-9	STP	39 mg/L	Fresh water	1 mg/L
	Soil	0.456 mg/k	Marine water	0.1 mg/L
	Intermittent	2.3 mg/L	Sediment (Fresh water)	5.27 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0.527 mg/kg
3-aminomethyl-3,5,5-trimethylcyclohexylamine CAS: 2855-13-2 EC: 220-666-8	STP	3.18 mg/L	Fresh water	0.06 mg/L
	Soil	1.121 mg/kg	Marine water	0.006 mg/L
	Intermittent	0.23 mg/L	Sediment (Fresh water)	5.784 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0.578 mg/kg
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine CAS: 38294-64-3 EC: 500-101-4	STP	10 mg/L	Fresh water	0.011 mg/L
	Soil	864 mg/kg	Marine water	0.001 mg/L
	Intermittent	0.111 mg/L	Sediment (Fresh water)	4320 mg/kg
	Oral	0.001 g/kg	Sediment (Marine water)	432 mg/kg
Salicylic acid CAS: 69-72-7 EC: 200-712-3	STP	162 mg/L	Fresh water	0.2 mg/L
	Soil	0.166 mg/kg	Marine water	0.02 mg/L
	Intermittent	1 mg/L	Sediment (Fresh water)	1.42 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0.142 mg/kg
m-phenylenebis(methylamine) CAS: 1477-55-0 EC: 216-032-5	STP	10 mg/L	Fresh water	0.094 mg/L
	Soil	2.44 mg/kg	Marine water	0.009 mg/L
	Intermittent	0.152 mg/L	Sediment (Fresh water)	12.4 mg/kg
	Oral	Not relevant	Sediment (Marine water)	1.24 mg/kg

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continue)

8.2 Exposure controls:

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<UKCA marking>> or <<CE marking>>. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,…) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B. Respiratory protection

Pictogram	PPE	Remarks
 Mandatory respiratory tract protection	Filter mask for gases and vapours (Filter type: A)	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment.

C. Specific protection for the hands

Pictogram	PPE	Remarks
 Mandatory hand protection	Chemical protective gloves (Material: Nitrile, Breakthrough time: > 480 min, Thickness: 0.35 mm)	Replace the gloves at any sign of deterioration.

As the product is a mixture of several substances, the resistance of the glove material cannot be calculated in advance with total reliability and has therefore to be checked prior to the application.

D. Eye and face protection

Pictogram	PPE	Remarks
 Mandatory face protection	Face shield	Clean daily and disinfect periodically according to the manufacturer´s instructions. Use if there is a risk of splashing.

E. Body protection

Pictogram	PPE	Remarks
 Mandatory complete body protection	Disposable clothing for protection against chemical risks	For professional use only. Clean periodically according to the manufacturer´s instructions.
 Mandatory foot protection	Safety footwear for protection against chemical risk	Replace boots at any sign of deterioration.

F. Additional emergency measures

It is advised to implement additional emergency equipments in workplaces that are particularly exposed to the product or in situations where risk assessments highlight the necessity of such equipments.

Emergency measure	Standards	Emergency measure	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	 Eyewash stations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011

Environmental exposure controls:

To comply with environmental protection regulations, it is recommended to prevent any spillage of the product and its container. For more detailed information, please refer to subsection 7.1.D.

The Volatile Organic Compounds in Paints, Varnishes and Vehicle Refinishing Products Regulations 2012:

V.O.C. (Supply): 40 % weight

V.O.C. density at 20 °C: 424 kg/m³ (424 g/L)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

For complete information see the product datasheet.

Appearance

Physical state at 20 °C: Liquid

*Not relevant due to the nature of the product, not providing information property of its hazards

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continue)

Appearance:	Fluid
Colour:	Light Yellow
Odour:	Aminic
Odour threshold:	Not relevant *
Volatility:	
Boiling point at atmospheric pressure:	>200 °C
Vapour pressure at 20 °C:	5 Pa
Vapour pressure at 50 °C:	61.67 Pa (0.06 kPa)
Evaporation rate at 20 °C:	Not relevant *
Product description:	
Density at 20 °C:	1060 kg/m³
Relative density at 20 °C:	1.06
Dynamic viscosity at 20 °C:	4.46 mPa·s
Kinematic viscosity at 20 °C:	4.36 mm²/s
Kinematic viscosity at 40 °C:	300 mm²/s
Concentration:	Not relevant *
pH:	Not relevant *
Vapour density at 20 °C:	Not relevant *
Partition coefficient n-octanol/water 20 °C:	Not relevant *
Solubility in water at 20 °C:	Not relevant *
Solubility properties:	Not relevant *
Decomposition temperature:	Not relevant *
Melting point/freezing point:	Not relevant *
Flammability:	
Flash Point:	>104 °C
Flammability (solid, gas):	Not relevant *
Autoignition temperature:	380 °C
Lower flammability limit:	Not relevant *
Upper flammability limit:	Not relevant *
Particle characteristics	
Median equivalent diameter:	Not relevant *

9.2 Other information

Information with regard to physical hazard classes:

Explosive properties:	Not relevant *
Oxidising properties:	Not relevant *
Corrosive to metals:	Not relevant *
Heat of combustion:	Not relevant *
Aerosols-total percentage (by mass) of flammable components:	Not relevant *
Other safety characteristics:	
Surface tension at 20 °C:	Not relevant *
Refraction index:	Not relevant *

*Not relevant due to the nature of the product, not providing information property of its hazards

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity: No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.

10.2 Chemical stability: Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions: Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Precaution	Not applicable	Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

Contains substances which require external energy for spontaneous decomposition. Form explosive peroxides when distilled, evaporated or otherwise concentrated.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

SECTION 11: TOXICOLOGICAL INFORMATION (continue)

The experimental information related to the toxicological properties of the product itself is not available

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
- Corrosivity/Irritability: Corrosive product, if it is swallowed causes burns destroying the tissues. For more information about secondary effects from skin contact see section 2.

B- Inhalation (acute effect):

- Acute toxicity: Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.
- Corrosivity/Irritability: Corrosive to the respiratory tract

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Above all, skin contact may occur as fabrics of all thicknesses can be destroyed, resulting in burns. For more information on the secondary effects see section 2.
- Contact with the eyes: Produces serious eye damage after contact.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.
- IARC: Not relevant
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Reproductive toxicity: Suspected to damage the foetus

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
- Skin: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.

F- Specific target organ toxicity (STOT) - single exposure:

- Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

H- Aspiration hazard:

- Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

Other information:

Not relevant

Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
benzyl alcohol CAS: 100-51-6 EC: 202-859-9	LD50 oral	1200 mg/kg	
	LD50 dermal		
	LC50 inhalation vapour		
3-aminomethyl-3,5,5-trimethylcyclohexylamine CAS: 2855-13-2 EC: 220-666-8	LD50 oral	1030 mg/kg	Rat
	LD50 dermal		
	LC50 inhalation vapour		
Salicylic acid CAS: 69-72-7 EC: 200-712-3	LD50 oral	891 mg/kg	Rat
	LD50 dermal		
	LC50 inhalation vapour		
m-phenylenebis(methylamine) CAS: 1477-55-0 EC: 216-032-5	LD50 oral	1090 mg/kg	Rat
	LD50 dermal		
	LC50 inhalation vapour	1.34 mg/L	Rat

11.2 Information on other hazards:

Endocrine disrupting properties

Endocrine-disrupting properties: The product does not meet the criteria.

SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

Harmful to aquatic life with long lasting effects.

12.1 Toxicity

Acute toxicity:

Identification	Concentration		Species	Genus
3-aminomethyl-3,5,5-trimethylcyclohexylamine CAS: 2855-13-2	LC50	110 mg/L (96 h)	Leuciscus idus	Fish
	EC50	388 mg/L (48 h)	N/A	Crustacean
	EC50	Not relevant		
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine CAS: 38294-64-3	LC50	>10 - 100 mg/L (96 h)		Fish
	EC50	>10 - 100 mg/L (48 h)		Crustacean
	EC50	>10 - 100 mg/L (72 h)		Algae
m-phenylenebis(methylamine) CAS: 1477-55-0	LC50	88 mg/L (96 h)	Oryzias latipes	Fish
	EC50	15 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	20 mg/L (72 h)	Selenastrum capricornutum	Algae

SECTION 12: ECOLOGICAL INFORMATION (continue)

Chronic toxicity:

Identification	Concentration		Species	Genus
3-aminomethyl-3,5,5-trimethylcyclohexylamine	NOEC	Not relevant		
CAS: 2855-13-2	NOEC	3 mg/L	Daphnia magna	Crustacean
m-phenylenebis(methylamine)	NOEC	Not relevant		
CAS: 1477-55-0	NOEC	4.7 mg/L	Daphnia magna	Crustacean

12.2 Persistence and degradability:
Substance-specific information:

Identification	Degradability		Biodegradability	
benzyl alcohol	BOD5	Not relevant	Concentration	100 mg/L
CAS: 100-51-6	COD	Not relevant	Period	14 days
EC: 202-859-9	BOD5/COD	Not relevant	% Biodegradable	94 %
3-aminomethyl-3,5,5-trimethylcyclohexylamine	BOD5	Not relevant	Concentration	7 mg/L
CAS: 2855-13-2	COD	Not relevant	Period	28 days
EC: 220-666-8	BOD5/COD	Not relevant	% Biodegradable	8 %
m-phenylenebis(methylamine)	BOD5	Not relevant	Concentration	14 mg/L
CAS: 1477-55-0	COD	Not relevant	Period	28 days
EC: 216-032-5	BOD5/COD	Not relevant	% Biodegradable	49 %

12.3 Bioaccumulative potential
Substance-specific information:

Identification	Bioaccumulation potential	
benzyl alcohol	BCF	1
CAS: 100-51-6	Pow Log	1.05
EC: 202-859-9	Potential	Low
m-phenylenebis(methylamine)	BCF	3
CAS: 1477-55-0	Pow Log	0.18
EC: 216-032-5	Potential	Low

12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
benzyl alcohol	Koc	15.7	Henry	8.8E-2 Pa·m³/mol
CAS: 100-51-6	Conclusion	Very High	Dry Soil	Yes
	Surface tension	3.679E-2 N/m (25 °C)	Moist soil	Yes
3-aminomethyl-3,5,5-trimethylcyclohexylamine	Koc	928	Henry	4.46E-4 Pa·m³/mol
CAS: 2855-13-2	Conclusion	Low	Dry Soil	Not relevant
	Surface tension	Not relevant	Moist soil	Not relevant
Salicylic acid	Koc	Not relevant	Henry	Not relevant
CAS: 69-72-7	Conclusion	Not relevant	Dry Soil	Not relevant
	Surface tension	2.444E-2 N/m (207.25°C)	Moist soil	Not relevant
m-phenylenebis(methylamine)	Koc	1300	Henry	Not relevant
CAS: 1477-55-0	Conclusion	Low	Dry Soil	Not relevant
	Surface tension	Not relevant	Moist soil	Not relevant

12.5 Results of PBT and vPvB assessment:
Product fails to meet PBT/vPvB criteria

12.6 Other adverse effects:
Endocrine-disrupting properties: The product does not meet the criteria.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Code	Description	Waste class
	It is not possible to assign a specific code, as it depends on the intended use by the user	Hazardous

Type of waste:
HP14 Ecotoxic, HP6 Acute Toxicity, HP10 Toxic for reproduction, HP13 Sensitising, HP8 Corrosive

Waste management (disposal and evaluation):
Consult the authorized waste service manager on the assessment and disposal operations in accordance The Waste (England & Wales) Regulations 2011, 2011 No. 988. As under 15 01 of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-hazardous residue. Waste should not be disposed of to drains. See paragraph 6.2.

Regulations related to waste management:
In accordance with Annex II of UK REACH the provisions related to waste management are stated:
UK legislation: The Waste (England & Wales) Regulations 2011.

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:
With regard to ADR 2025 and RID 2025:

14.1	**UN number:**	UN2735
14.2	**UN proper shipping name:**	AMINES, LIQUID, CORROSIVE, N.O.S. (3-aminomethyl-3,5,5-trimethylcyclohexylamine; 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine)
14.3	**Transport Hazard Class(es):**	8
	Label(s):	8
14.4	**Packing group**	II
14.5	**Environmental hazards:**	No
14.6	**Special precautions for user**	
	Tunnel restriction code:	E
	Physico-Chemical properties:	see section 9
	Limited quantities:	1 L
14.7	**Transport in bulk according to Annex II of Marpol and the IBC Code**	Not relevant

Transport of dangerous goods by sea:
With regard to IMDG 42-24:

14.1	**UN number:**	UN2735
14.2	**UN proper shipping name:**	AMINES, LIQUID, CORROSIVE, N.O.S. (3-aminomethyl-3,5,5-trimethylcyclohexylamine; 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine)
14.3	**Transport Hazard Class(es):**	8
	Label(s):	8
14.4	**Packing group**	II
14.5	**Marine pollutant:**	No
14.6	**Special precautions for user**	
	Special regulations:	274
	EmS Codes:	F-A, S-B
	Physico-Chemical properties:	see section 9
	Limited quantities:	1 L
	Segregation group:	SGG18
14.7	**Transport in bulk according to Annex II of Marpol and the IBC Code**	Not relevant

Transport of dangerous goods by air:
With regard to IATA/ICAO 2026:

14.1	**UN number:**	UN2735
14.2	**UN proper shipping name:**	AMINES, LIQUID, CORROSIVE, N.O.S. (3-aminomethyl-3,5,5-trimethylcyclohexylamine; 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine)
14.3	**Transport Hazard Class(es):**	8
	Label(s):	8
14.4	**Packing group**	II
14.5	**Environmental hazards:**	No
14.6	**Special precautions for user**	
	Physico-Chemical properties:	see section 9
14.7	**Transport in bulk according to Annex II of Marpol and the IBC Code**	Not relevant

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:
- Substances listed in UK candidate list of substances of very high concern (SVHCs): Bisphenol A (80-05-7) ; 4-nonylphenol, branched (84852-15-3)
- Substances listed in UK REACH Authorisation List (Annex 14): Not relevant

The Control of Major Accident Hazards Regulations 2015: Not relevant

Restrictions to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII UK REACH, etc ….):
Shall not be used in:
- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
- tricks and jokes,
- games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

Specific provisions in terms of protecting people or the environment:
It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

SECTION 15: REGULATORY INFORMATION (continue)

Other legislation:
The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.
The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2020.
Control of Substances Hazardous to Health Regulations 2002 (as amended)
EH40/2005 Workplace exposure limits.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:
This safety data sheet has been designed in accordance with ANNEX II-The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.
Texts of the legislative phrases mentioned in section 2:
H318: Causes serious eye damage.
H317: May cause an allergic skin reaction.
H361d: Suspected of damaging the unborn child.
H412: Harmful to aquatic life with long lasting effects.
H302+H332: Harmful if swallowed or if inhaled.
H314: Causes severe skin burns and eye damage.

Texts of the legislative phrases mentioned in section 3:
The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

GB CLP Regulation (UK S.I. 2019/720 and UK S.I. 2020/1567):
Acute Tox. 4: H302 - Harmful if swallowed.
Acute Tox. 4: H302+H332 - Harmful if swallowed or if inhaled.
Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.
Eye Dam. 1: H318 - Causes serious eye damage.
Eye Irrit. 2: H319 - Causes serious eye irritation.
Repr. 2: H361d - Suspected of damaging the unborn child.
Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.
Skin Sens. 1: H317 - May cause an allergic skin reaction.
Skin Sens. 1A: H317 - May cause an allergic skin reaction.
Skin Sens. 1B: H317 - May cause an allergic skin reaction.

Classification procedure:
Eye Dam. 1: Calculation method
Skin Sens. 1A: Calculation method
Repr. 2: Calculation method
Aquatic Chronic 3: Calculation method
Acute Tox. 4: Calculation method
Skin Corr. 1B: Calculation method

Advice related to training:
Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:
http://echa.europa.eu
http://eur-lex.europa.eu

Abbreviations and acronyms:
ADR: European agreement concerning the international carriage of dangerous goods by road
IMDG: International maritime dangerous goods code
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
COD: Chemical Oxygen Demand
BOD5: 5day biochemical oxygen demand
BCF: Bioconcentration factor
LD50: Lethal Dose 50
LC50: Lethal Concentration 50
EC50: Effective concentration 50
LogPOW: Octanolwater partition coefficient
Koc: Partition coefficient of organic carbon
UFI: unique formula identifier
IARC: International Agency for Research on Cancer

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