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

1.1 Product Identifier

Product Name: Crackfiller EP100 - Resin (Part A)

1.2 Relevant identified uses of the substance or mixture and uses advised against:
Epoxy resin for coating, adhesive, casting and laminating applications.

Sector of Use: SU10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys)
Application of the substance / the mixture: Epoxy resin for coating, adhesive, casting and laminating applications.

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:

Classification according to Regulation (EC) No 1272/2008
According to Commission Regulation (EU) 2020/878.
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.
Repr. 1B H360F May damage fertility.
Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.
Storage: Store at a temperature below 40°C.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008:
According to Commission Regulation (EU) 2020/878.
The product is classified and labelled according to the CLP regulation.

Hazard pictograms:

Signal word: Danger

Hazard-determining components of labelling:
2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane
Oxirane, 2-[(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

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

Precautionary statements:
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P273 Avoid release to the environment.
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.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards:
Results of PBT and vPvB assessment
PBT: No data available
vPvB: No data available
Determination of endocrine-disrupting properties: None of the ingredient is listed

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Dangerous components:		
CAS: 1675-54-3 EINECS: 216-823-5 Index number: 603-073-00-2 Reg.nr.: 01-2119456619-26-0026	2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 %	**58 - 63%**
EC number: 701-263-0 Reg.nr.: 01-2119454392-40-0010	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 Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin Sens. 1A, H317	**24 - 26%**
CAS: 68609-97-2 EINECS: 271-846-8 Index number: 603-103-00-4 Reg.nr.: 01-2119485289-22-0010	Oxirane, 2-[(C12-14-alkyloxy)methyl] derivs. Repr. 1B, H360F; Skin Irrit. 2, H315; Skin Sens. 1, H317	**13 - 16%**

SVHC: Does not fall under SVHC substance
Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: FIRST-AID MEASURES

4.1 Description of first aid measures:

General information: Immediately remove any clothing soiled by the product.

After inhalation: Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing: If symptoms persist consult doctor.

4.2 Most important symptoms and effects, both acute and delayed
No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed:
No further relevant information available.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture: Carbon monoxide and Carbon dioxide.

5.3 Advice for firefighters: Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

Protective equipment: "Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents."

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel Keep away from ignition sources.
Avoid formation of vapours.
Ensure adequate ventilation.

For emergency responders Wear protective equipment.
Keep unprotected persons away.

6.2 Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.

6.4 Reference to other sections: See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling	Do not get in eyes, on skin, or clothing. Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
Information about fire - and explosion protection:	Keep ignition sources away - Do not smoke.
7.2 Conditions for safe storage, including any Incompatibilities:	
Storage:	
Requirements to be met by storerooms and receptacles:	Store at a temperature below 40 ˚C.
Information about storage in one common storage facility:	Do not store together with strong oxidising agents, strong alkali, strong bases, amines.
Further information about storage conditions:	Keep container tightly sealed.
7.3 Specific end use(s)	Epoxy resin for coating, adhesive, casting and laminating applications.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:
Ingredients with limit values that require monitoring at the workplace: Not required.
Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls:
Appropriate engineering controls: No further data; see section 7.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures:	Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.
Respiratory protection:	In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
Hand protection:	The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
 Protective gloves	Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. **Material of gloves** The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. **Penetration time of glove material** The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Eye/face protection:	Tightly sealed goggles
	
Body protection:	Protective work clothing

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties
General Information

Physical state:	Liquid
Colour:	Colourless.
Odour:	Characteristic.
Odour threshold:	No data available
Melting point/freezing point:	No data available
Boiling point or initial boiling point and boiling range:	325 °C
Flammability:	Product is not flammable.
Lower and upper explosion limit	
Lower:	No data available
Upper:	No data available
Flash point:	>93 ˚C
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continue)

9.1 Information on basic physical and chemical properties

pH:	Neutral
Viscosity:	
Dynamic at 25 °C:	860 - 960 mPas (ASTM D2196)
Solubility	
water:	No data available
Vapour pressure:	No data available
Density and/or relative density	
Density at 25 °C:	1.16 - 1.18 g/cm³
Relative density at 25 °C:	1.16 - 1.18
Vapour density:	No data available

9.2 Other information

Form:	Liquid
Important information on protection of health and environment, and on safety.	
Auto-ignition temperature:	No data available
Explosive properties:	Product does not present an explosion hazard.
Change in condition	
Evaporation rate:	No data available
Information with regard to physical hazard classes	
Explosives:	Non-explosive
Flammable gases:	Void
Aerosols:	Void
Oxidising gases:	Void
Gases under pressure:	Void
Flammable liquids:	Product is non-flammable.
Flammable solids:	Void
Self-reactive substances and mixtures:	Void
Pyrophoric liquids:	Void
Pyrophoric solids:	Void
Self-heating substances and mixtures:	Void
Substances and mixtures, which emit flammable gases in contact with water:	Void
Oxidising liquids:	Void
Oxidising solids:	Void
Organic peroxides:	Void
Corrosive to metals:	Non corrosive to metals
Desensitised explosives:	Void

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:	No further relevant information available.
10.2 Chemical stability:	Stable under recommended storage conditions.
Information on the shelf life:	24 months from date of manufacturing at temperature below 40 °C
Thermal decomposition / conditions to be avoided:	No decomposition if used according to specifications.
10.3 Possibility of hazardous reactions:	Reacts with amines with exothermic reaction liberating heat and fumes.
10.4 Conditions to avoid:	Heat, flames and sparks.
10.5 Incompatible materials:	Strong Oxidising agents, Strong Alkali, Strong Bases, Amines
10.6 Hazardous decomposition products:	Carbon monoxide and carbon dioxide

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity: Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:		
1675-54-3 2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane		
Oral:	LD50	> 2000 mg/kg bw (Rat)
Dermal:	LD50	No data available
Inhalative:	LC50	No data available

Skin corrosion/irritation:	Causes skin irritation.
Serious eye damage/irritation:	Causes serious eye irritation.
Respiratory or skin sensitisation:	May cause an allergic skin reaction.
Germ cell mutagenicity:	Based on available data, the classification criteria are not met.
Carcinogenicity:	Based on available data, the classification criteria are not met.

SECTION 11: TOXICOLOGICAL INFORMATION (continue)

Reproductive toxicity:	May damage fertility.
STOT-single exposure:	Based on available data, the classification criteria are not met.
STOT-repeated exposure:	Based on available data, the classification criteria are not met.
Aspiration hazard:	Based on available data, the classification criteria are not met.

11.2 Information on other hazards

Endocrine disrupting properties
None of the ingredients is listed.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic toxicity: Toxic to aquatic life with long lasting effects.

1675-54-3 2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane
NOEC (21 days) 300 µg/L (aquatic invertebrates)

12.2 Persistence and Degradation: No further relevant information available

12.3 Bioaccumulative potential: No further relevant information available

12.4 Mobility in soil: No further relevant information available

12.5 Results of PBT and vPvB assessment:
PBT: No data available
vPvB: No data available

12.6 Endocrine disrupting properties: The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects:
Remark: Toxic to fish
Additional ecological information:
General notes:
Harmful to aquatic organisms
Must not reach sewage water or drainage ditch undiluted or unneutralised.
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Recommendation: Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging:
Recommendation: Disposal must be made according to official regulations.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number or ID number

ADR, IMDG, IATA: UN 3082

14.2 UN proper shipping name

ADR, IATA: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, 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)

IMDG: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, 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), MARINE POLLUTANT

14.3 Transport hazard class(es)
ADR, IMDG, IATA:

Class: 9 Miscellaneous dangerous substances and articles.
Label: 9

14.4 Packing group:
ADR, IMDG, IATA: III

14.5 Environmental hazards: Product contains environmentally hazardous substances: 2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane

Marine pollutant: Yes
Symbol (fish and tree)

Special marking (ADR): Symbol (fish and tree)

SECTION 14: TRANSPORT INFORMATION (continue)

Special marking (IATA):	Symbol (fish and tree)
14.6 Special precautions for user:	Warning: Miscellaneous dangerous substances and articles.
Hazard identification number (Kemler code):	90
EMS Number:	F-A,S-F
Stowage Category:	A
14.7 Maritime transport in bulk according to IMO Instruments:	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ):	5L
Excepted quantities (EQ):	Code: E1
Transport category:	3
Tunnel restriction code:	(-)
IMDG	
Limited quantities (LQ):	5L
Excepted quantities (EQ):	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, 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), 9, III

SECTION 15: REGULATORY INFORMATION

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

Labelling according to Regulation (EC) No 272/2008:	According to Commission Regulation (EU) 2020/878.
Chemical safety assessment:	A Chemical Safety Assessment has been carried out.
Directive 2012/18/EU:	
Named dangerous substances - ANNEX I:	None of the ingredients is listed.
Seveso category:	E2 Hazardous to the Aquatic Environment
Qualifying quantity (tonnes) for the application of lower-tier requirements:	200 t
Qualifying quantity (tonnes) for the application of upper-tier requirements:	500 t
REGULATION (EC) No 1907/2006 ANNEX XVII:	Conditions of restriction: 3

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II
None of the ingredients is listed.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS
None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors
None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors
None of the ingredients is listed.

National regulations:

Waterhazard class:	Water hazard class 2 (Self-assessment): Obviously hazardous to water.
15.2. Chemical safety assessment	No chemical safety assessment has been carried out

SECTION 16: OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

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.

SECTION 16: OTHER INFORMATION (continue)

Abbreviations and acronyms:
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1A: Skin sensitisation – Category 1A
Repr. 1B: Reproductive toxicity – Category 1B
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

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

1.1 Product Identifier

Product Name: Crackfiller EP100 - 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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