

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
 Wolsley 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. 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.
	
Protective gloves	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/cm ³
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.
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SECTION 14: TRANSPORT INFORMATION

14.1 UN number or ID number	UN 3082
ADR, IMDG, IATA:	UN 3082
14.2 UN proper shipping name	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)
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), MARINE POLLUTANT
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)	9 Miscellaneous dangerous substances and articles.
ADR, IMDG, IATA:	9
Class:	9 Miscellaneous dangerous substances and articles.
Label:	9
14.4 Packing group:	III
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

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at UK, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

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Polycote UK LLP

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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: Curing chemical

1.3 Details of the supplier of the safety data sheet
Company Name: Polycote UK LLP
 Centre Point
 Wolsley 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:

Acute toxicity - Inhalation (Dusts/Mists) Category 4 - (H332)

Skin corrosion/irritation Category 1 Sub-category B - (H314)

Serious eye damage/eye irritation Category 1 - (H318)

Skin sensitisation Category 1 - (H317)

Chronic aquatic toxicity Category 3 - (H412)

2.2 Label elements

Contains CASHEW, NUTSHELL LIQ., m - PHENYLENEBIS (METHYLAMINE)

Hazard pictograms:

Signal word:

Danger

Hazard statements:

H314 - Causes severe skin burns and eye damage

H317 - May cause an allergic skin reaction

H332 - Harmful if inhaled

H412 - Harmful to aquatic life with long lasting effects

Precautionary statements:

EUH071 - Corrosive to the respiratory tract

P260 - Do not breathe dust/fume/gas/mist/vapours/spray

P280 - Wear protective gloves/protective clothing and eye/face protection

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

Unknown aquatic toxicity:

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

Additional information:

This product requires child resistant fastenings if supplied to the general public. This product requires tactile warnings if supplied to the general public.

2.3 Other hazards:

No information available.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS
3.1 Substances: Not applicable

3.2 Mixtures

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)
CASHEW, NUTSHELL LIQ. 8007-24-7	>=30 - <50%	232-355-4	-	Aquatic Chronic 3 (H412) Skin Sens. 1A (H317) Skin Irrit. 2 (H315) Acute Tox. 4 (H312) Eye Dam. 1 (H318)	-	-	-
m - PHENYLENEBIS (METHYLAMINE) 1477-55-0	>=30 - <50%	216-032-5	-	Aquatic Chronic 3 (H412) Skin Corr. 1B (H314) Acute Tox. 4 (H332) Skin Sens. 1B (H317) Acute Tox. 4 (H302) Eye Dam. 1 (H318)	-	-	-

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS (continue)

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

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (UK REACH Article 59)**SECTION 4: FIRST-AID MEASURES****4.1 Description of first aid measures:**

General advice:	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.
Inhalation:	Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical attention.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention.
Skin contact:	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get immediate medical attention. May cause an allergic skin reaction.
Ingestion:	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get immediate medical attention.
Self-protection of the first aider:	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Avoid breathing vapours or mists. Use personal protective equipment as required. See section 8 for more information.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms:	Burning sensation. Itching. Rashes. Hives. Coughing and/ or wheezing. Difficulty in breathing.
Inhalation:	Coughing and/ or wheezing. Difficulty in breathing.
Eyes:	Burning sensation. May cause permanent damage if eye is not immediately irrigated.
Dermal:	Hives. Itching. Rashes. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing. Burning sensation. Irritating. Erythema (skin redness). Prolonged contact may cause redness and irritation.
Ingestion:	Can burn mouth, throat, and stomach

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

Note to doctors:	Product is a corrosive material. Use of gastric lavage or emesis is contra-indicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. May cause sensitisation in susceptible persons. Treat symptomatically.
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SECTION 5: FIRE-FIGHTING MEASURES**5.1 Extinguishing media:**

Suitable Extinguishing Media: 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: The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapours. Product is or contains a sensitiser. May cause sensitisation by skin contact.

Hazardous combustion products: Carbon oxides. Nitrogen oxides (NOx). Ammonia. May emit toxic fumes under fire conditions.

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: Attention! Corrosive material. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid breathing vapours or mists.

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

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

SECTION 6: ACCIDENTAL RELEASE MEASURES (continue)

6.2 Environmental precautions:	Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains.
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:	Collect with absorbent, non-combustible material into suitable 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:	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Avoid breathing vapours or mists.
General hygiene considerations:	Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Ensure that eyewash stations and safety showers are close to the workstation location.
7.2 Conditions for safe storage, including any Incompatibilities:	
Storage Conditions:	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Avoid contact with: Acids. See section 10 for more information.
7.3 Specific end 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																			
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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continue)

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
m - PHENYLENEBIS (METHYLAMINE) 1477-55-0	0.43 mg/kg	0.043 mg/kg	10 mg/L	0.045 mg/kg	10 mg/l

8.2 Exposure controls:

Apply technical measures to comply with the occupational exposure limits. Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment**Eye/face protection:**

Tight sealing safety goggles. Face protection shield. Use eye protection according to EN 166.

Hand protection:

Wear suitable gloves. Impervious gloves. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. Gloves must conform to standard EN 374.

Gloves			
Duration of contact	PPE - Glove material	Glove thickness	Break through time
	Nitrile rubber Neoprene gloves Butyl rubber		

Skin and body protection:

Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.

Respiratory protection:

In case of inadequate ventilation wear respiratory protection.

General hygiene considerations:

Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Ensure that eyewash stations and safety showers are close to the workstation location.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

Physical state:	Liquid
Appearance:	Liquid
Colour:	brown dark
Odour:	Ammonia
Odour threshold:	No information available

Property**Values****Remarks • Method**

Melting point / freezing point:		No information available.
Initial boiling point and boiling range:	> 200 °C	No information available.
Flammability:		No information available.
Flammability Limit in Air:		No information available.
Upper flammability or explosive limits		
Lower flammability or explosive limits		
Flash point:	94 °C	No information available.
Autoignition temperature:		No information available.
Decomposition temperature:		No information available.
pH:	11	No information available.
pH (as aqueous solution):		No information available.
Kinematic viscosity:	400 mm ² /s	@ 40 °C.
Dynamic viscosity:	400 mPa s @ 25°C	No information available.
Water solubility:	partially soluble 1-10%	No information available.
Solubility(ies):		No information available.
Partition coefficient:		No information available.
Vapour pressure:		No information available.
Relative density:	0.95 - 1.05	No information available.
Bulk density:	No information available	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:	No information available	
Explosive properties:	Not considered to be explosive.	
Oxidising properties:	Does not meet the criteria for classification as oxidising	

9.2. Other information

No information available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:	Stable under recommended storage conditions.
10.2 Chemical stability:	Stable under normal conditions.
Explosion data	
Sensitivity to mechanical impact:	None
Sensitivity to static discharge:	None
10.3 Possibility of hazardous reactions:	The following materials may react with the product: Peroxides.
10.4 Conditions to avoid:	No information available.
10.5 Incompatible materials:	Acids. Oxidising agents. Peroxides. Sodium hypochlorite.
10.6 Hazardous decomposition products:	Carbon oxides. Nitrogen oxides (NOx). Ammonia. May emit toxic fumes under fire conditions.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects****Information on likely routes of exposure****Product Information**

Inhalation:	Specific test data for the substance or mixture is not available. Corrosive by inhalation. (based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs. Pulmonary edema can be fatal. Harmful by inhalation.
Eye contact:	Specific test data for the substance or mixture is not available. Causes serious eye damage. (based on components). Corrosive to the eyes and may cause severe damage including blindness. May cause irreversible damage to eyes.
Skin contact:	Specific test data for the substance or mixture is not available. Corrosive. (based on components). Causes burns. May cause sensitisation by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.
Ingestion:	Specific test data for the substance or mixture is not available. Causes burns. (based on components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung damage if swallowed. May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Redness. Burning. May cause blindness. Coughing and/ or wheezing. Itching. Rashes. Hives.

Acute toxicity**Numerical measures of toxicity**

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

ATEmix (oral):	1,650.00 mg/kg
ATEmix (dermal):	2,291.70 mg/kg
ATEmix (inhalation-gas):	11,250.00 ppm
ATEmix (inhalation-vapour):	27.50 mg/l
ATEmix (inhalation-dust/mist):	3.75 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
CASHEW, NUTSHELL LIQ.	> 1000 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
m - PHENYLENEBIS (METHYLAMINE)	= 660 mg/kg (Rat)	= 2 g/kg (Rabbit)	= 1.38 mg/L (Rat) 4 h = 1.16 mg/L (Rat) 4 h

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

Skin corrosion/irritation:	Classification based on data available for ingredients. Causes severe skin burns and eye damage.
Serious eye damage/eye irritation:	Classification based on data available for ingredients. Causes serious eye damage. Causes burns.
Respiratory or skin sensitisation:	May cause an allergic skin reaction.
Germ cell mutagenicity:	No information available.
Carcinogenicity:	No information available.
Reproductive toxicity:	No information available.
STOT - single exposure:	No information available.
STOT - repeated exposure:	No information available.
Aspiration hazard:	No information available.
Other adverse effects:	No information available.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity	
Ecotoxicity:	Harmful to aquatic life with long lasting effects.

SECTION 12: ECOLOGICAL INFORMATION (continue)**Unknown aquatic toxicity:** Contains 0 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
CASHEW, NUTSHELL LIQ.	-	LC50: >1000mg/L (96h) Fish	-	EL50: 40.46 mg/l (48 h) Daphnia magna,
m - PHENYLENEBIS (METHYLAMINE)	-	LC50: =87.6mg/L (96h, Oryzias latipes)	-	EC50: 15.2 mg/l (48 h) Daphnia magna,

12.2 Persistence and Degradation: No information available.

CASHEW, NUTSHELL LIQ. (8007-24-7)

Method	Exposure time	Value	Results
OECD Test No. 301D: Ready Biodegradability: Closed Bottle Test (TG 301 D)	28 days	96%	Readily biodegradable

m - PHENYLENEBIS (METHYLAMINE) (1477-55-0)

Method	Exposure time	Value	Results
OECD Test No. 301B: Ready Biodegradability: CO2 Evolution Test (TG 301 B)	28 days	49%	Not readily biodegradable

12.3 Bioaccumulative potential:**Bioaccumulation:** No information available.**Component Information**

Chemical name	Partition coefficient
CASHEW, NUTSHELL LIQ.	6.7
m - PHENYLENEBIS (METHYLAMINE)	0.18

12.4 Mobility in soil: No information available.**12.5 Results of PBT and vPvB assessment:** The product does not contain any substance(s) classified as PBT or vPvB.

Chemical name	PBT and vPvB assessment
CASHEW, NUTSHELL LIQ.	The substance is not PBT / vPvB
m - PHENYLENEBIS (METHYLAMINE)	The substance is not PBT / vPvB

12.6 Endocrine disrupting properties: No information available.**SECTION 13: DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods****Waste from residues/unused products:** Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.**Contaminated packaging:** Do not reuse empty containers.**SECTION 14: TRANSPORT INFORMATION****IATA**

14.1 UN number or ID number: UN2735
14.2 UN proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (m - PHENYLENEBIS (METHYLAMINE))
14.3 Transport hazard class(es): 8
14.4 Packing group: II
14.5 Environmental hazards: No
14.6 Special precautions for user:
Special Provisions: A3, A803
ERG Code: 8L

IMDG

14.1 UN number or ID number: UN2735
14.2 UN proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (m - PHENYLENEBIS (METHYLAMINE))
14.3 Transport hazard class(es): 8
14.4 Packing group: II
14.5 Environmental hazards: No
14.6 Special precautions for user:
Special Provisions 274
EmS-No: F-A, S-B

14.7 Maritime transport in bulk according to IMO instruments: No information available**RID**

14.1 UN number or ID number: UN2735
14.2 UN proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (m - PHENYLENEBIS (METHYLAMINE))

SECTION 14: TRANSPORT INFORMATION (continue)

14.3 Transport hazard class(es):	8
14.4 Packing group:	II
14.5 Environmental hazards:	No
14.6 Special precautions for user:	
Special Provisions	274
Classification code:	C7
ADR	
14.1 UN number or ID number:	UN2735
14.2 UN proper shipping name:	AMINES, LIQUID, CORROSIVE, N.O.S. (m - PHENYLENEBIS (METHYLAMINE))
14.3 Transport hazard class(es):	8
14.4 Packing group:	II
14.5 Environmental hazards:	No
14.6 Special precautions for user:	
Special Provisions	274
Classification code:	C7
Tunnel restriction code:	(E)

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).

Persistent Organic Pollutants: Not applicable

Export Notification requirements: Not applicable

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: Complies

DSL/NDL: Complies

EINECS/ELINCS: Complies

ENCS: Complies

IECSC: Complies

KECI: Complies

PICCS: Contact supplier for inventory compliance status

AIIC: Complies

NZIoC: Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - 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

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 Not applicable

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**

H302 - Harmful if swallowed

H314 - Causes severe skin burns and eye damage

H317 - May cause an allergic skin reaction

SECTION 16: OTHER INFORMATION (continue)

H318 - Causes serious eye damage

H332 - Harmful if inhaled

H412 - Harmful 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
Reproductive toxicity:	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

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

World Health Organization

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at UK, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

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Version 1

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