Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: UltraGuard - Part B - Curing Agent

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

Use of substance / mixture: CURING AGENT

1.3. Details of the supplier of the safety data sheet

Company name: RMS | REPAIR & MAINTENANCE SUPPLIERS,
38 High Street North,
Langley Moor,
Durham,
DH7 8JG
T +44 (0) 191 389 7067

Email: technical@rmsuppliers.com

1.4. Emergency telephone number

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Acute Tox. 4: H302+H332; Repr. 2: H361fd; Skin Corr. 1B: H314; Skin Sens. 1: H317; Aquatic Chronic 2: H411; Aquatic Chronic 1: H410

Most important adverse effects: Harmful if swallowed or if inhaled Causes severe skin burns and eye damage. May cause an allergic skin reaction. Suspected of damaging fertility. Suspected of damaging the unborn child. Very toxic to aquatic life with long lasting effects.

2.2. Label elements

Label elements:

Hazard statements: H302+H332: Harmful if swallowed or if inhaled
H314: Causes severe skin burns and eye damage.
H317: May cause an allergic skin reaction.
H361fd: Suspected of damaging fertility. Suspected of damaging the unborn child.
H410: Very toxic to aquatic life with long lasting effects.

Hazard pictograms: GHS05: Corrosion
GHS07: Exclamation mark
GHS08: Health hazard
GHS09: Environmental

Signal words: Danger

Precautionary statements: P262: Do not get in eyes, on skin, or on clothing.

P273: Avoid release to the environment.

P280: Wear protective clothing, eye protection, 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 doctor.

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

P391: Collect spillage.

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

BENZYL ALCOHOL - REACH registered number(s): 01-2119492630-38

EINECS	CAS	PBT / WEL	CLP Classification	Percent
202-859-9	100-51-6	-	Acute Tox. 4: H332; Acute Tox. 4: H302	10-30%

POLYOXYPROPYLENEDIAMINE - REACH registered number(s): 01-2119557899-12

618-561-0	9046-10-0	-	Skin Corr. 1C: H314; Eye Dam. 1: H318; Aquatic Chronic 3: H412	10-30%

4-TERT-BUTYLPHENOL - REACH registered number(s): 01-2119489419-21

202-679-0	98-54-4	-	Repr. 2: H361f; Skin Irrit. 2: H315; Eye Dam. 1: H318	10-30%

M-PHENYLENEBIS(METHYLAMINE) - REACH registered number(s): 01-2119480150-50

216-032-5	1477-55-0	-	Acute Tox. 4: H302+H332; Skin Corr. 1B: H314; Skin Sens. 1: H317; Aquatic Chronic 3: H412	10-30%

TRIMETHYLHEXANE-1,6-DIAMINE - REACH registered number(s): 01-2119560598-25

247-134-8	25620-58-0	-	Acute Tox. 4: H302; Aquatic Chronic 3: H412; Skin Corr. 1B: H314; Skin Sens. 1: H317	10-30%

PHENOL, 4-NONYL-,BRANCHED - REACH registered number(s): 01-2119510715-45

284-325-5	84852-15-3	-	Acute Tox. 4: H302; Skin Corr. 1B: H314; Eye Dam. 1: H318; Repr. 2: H361fd; Aquatic Acute 1: H400; Aquatic Chronic 1: H410	10-30%

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water. Remove all contaminated clothes and footwear immediately unless stuck to skin. NOTE TO PHYSICIANS: Application of corticosteroid cream has been effective in treating skin irritation. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Immediately remove contaminated clothing, and any extraneuos chemical, if possible to do so without delay.

Eye contact: Bathe the eye with running water for 15 minutes. Remove any contact lenses from the eyes before rinsing. Get medical attention if any discomfort continues.

Ingestion: Do not induce vomiting. If unconscious and breathing is OK, place in the recovery position. Never give anything by mouth to an unconsious person. If a person vomits when lying on his back, place him in the recovery position.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious and breathing is OK, place in the recovery position. If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated.

4.2. Most important symptoms and effects, both acute and delayed

Skin contact: Blistering may occur. Progressive ulceration will occur if treatment is not immediate.

Eye contact: Corneal burns may occur. May cause permanent damage.

Ingestion: Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.

Inhalation: There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

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

Immediate / special treatment: TREATMENT:- Treat symptomatically.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Dry chemical powder. Alcohol-resistant foam. Carbon dioxide (CO^2) Dry sand or limestone.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: Ammonia gas may be liberated at high temperatures. Incomplete combustion may form carbon monoxide. Ammonia gas may be liberated at high temperatures. In case of incomplete combustion an increased formation of oxides of nitrogen (NOx) is to be expected. Burning produces obnoxious and toxic fumes. Personnel in vicinity and downwind should be evacuated.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Notify the police and fire brigade immediately. Evacuate personnel to safe areas. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4. Reference to other sections

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Use personal protective equipment. Do not eat,drink or smoke. Do not use sodium nitrite or other nitrosating agents in formulations containing this product. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Do not store in reactive metal containers. Do not store near acids. Keep container tightly closed. Store at ambient temperature.

7.3. Specific end use(s)

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: No data available.

DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: Provide readily accessible eye wash stations and safety showers. Provide natural or explosive-proof ventilation adequate to ensure concentrations are kept below exposure limits.

Respiratory protection: Not required under normal conditions in a well-ventilated workplace.

Hand protection: Butyl gloves. Nitrile gloves. Neoprene gloves. PVC gloves. Impermeable gloves. Additional information: Chemical-resistant, impervious glove complying with an approved standard should be worn at all times when handling chemical products if a risk assement indicates this is necessary.

Eye protection: Tightly fitting safety goggles. Ensure eye bath is to hand.

Skin protection: Long sleeve shirts and trousers without cuffs.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Light Yellow

Odour: Ammoniacal

Solubility in water: Slightly soluble

Boiling point/range°C: >200

Flash point°C: >100

Vapour pressure: 13.75 hPa(21 C

Relative density: (water = 1) 0.99

pH: Alkalines

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Refer to possibility of hazardous reactions and/or incompatible materials sections

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid

10.5. Incompatible materials

Materials to avoid: Reactive metals (e.g. sodium, calcium, zinc etc) Materials reactive with hydroxyl compounds. CAUTION ! N-Nitrosamines, many of which are known to be potent carcinogens, may be formed when the product comes in contact with nitrous acid, nitrites or atmospheres with high nitrous oxide concentrations. Nitrous acid and other nitrosating agents. Organic Acids (i.e. acetic acid, citric acid etc) Product slowly corrodes copper, aluminium, zinc and galvanized surfaces. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion. Oxidizing agents.

10.6. Hazardous decomposition products

Haz. decomp. products: Carbon Monoxide - Carbon Dioxide(CO^2)-Nitric Acid - Ammonia - Nitrogen Oxides (NOx)-Nitrogen Oxide can react with water vapors to form corrosive nitric acid. - Aldehydes. Flammable hydrocarbon fragments(e.g. acetylene) Nitrosamine. In case of fire hazardous decomposition products may be produced such as:

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

BENZYL ALCOHOL

IVN	RAT	LD50	53	mg/kg
ORL	MUS	LD50	1360	mg/kg
ORL	RAT	LD50	1230	mg/kg

Relevant hazards for product:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	INH ING	Hazardous: calculated
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated
Respiratory/skin sensitisation	DRM	Hazardous: calculated
Reproductive toxicity	--	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: Blistering may occur. Progressive ulceration will occur if treatment is not immediate.

Eye contact: Corneal burns may occur. May cause permanent damage.

Ingestion: Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.

Inhalation: There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: No data available.

12.2. Persistence and degradability

Persistence and degradability: No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

12.4. Mobility in soil

Mobility: No data available.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Avoid subsoil penetration - prevent product from entering drains - do not contaminate surface water.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN2735

14.2. UN proper shipping name

Shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (Benzene-1,3-dimethaneamine (MXDA), Trimethylhexane-1, 6-diamine)

14.3. Transport hazard class(es)

Transport class: 8

14.4. Packing group

Packing group: II

14.5. Environmental hazards

Environmentally hazardous: Yes **Marine pollutant:** Yes

14.6. Special precautions for user

Special precautions: Keep separate from foodstuffs, luxury foods, feedstuffs.

Tunnel code: E

Transport category: 2

IMDG seg. group: KEEP SEPARATE FROM ACIDS.

Section 15: Regulatory information

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

Specific regulations: Not applicable.

15.2. Chemical Safety Assessment

Section 16: Other information

Other information

Other information: USA - TSCA : Included on Inventory

EU - EINECS List : On or in compliance with the inventory.

Canada DSL Inventory List: Included on the Inventory

Australia AICS: Included on Inventory

Japan (ENCS) List: Included on Inventory

Korea Existing Chemicals Inv. (KECI) Included on Inventory

China Inv. Existing Chemical Substances: Included on Inventory

Philipines PICCS: Included on Inventory

Phrases used in s.2 and s.3: H302: Harmful if swallowed.

H302+H332: Harmful if swallowed or if inhaled

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

H332: Harmful if inhaled.

H361f: Suspected of damaging fertility.

H361fd: Suspected of damaging fertility. Suspected of damaging the unborn child.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

H412: Harmful to aquatic life with long lasting effects.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.