

**Section 1: Product & Company Information****Product Identifier:****Other Means of Identification**

Product Number: No data available.

**Recommended Use and Restrictions on Use**

Recommended Use: Calcium, lime, and rust remover.

Restrictions on Use: None known.

**Manufacturer / Importer / Supplier / Distributor Information**

**Company Name:** Stratacote Ltd

**Address:** 76B Bremners Road, Ashburton 7700

**Information Telephone Number:** 0800 575 474

**Website:** [www.stratacote.co.nz](http://www.stratacote.co.nz)

**E-mail:** [info@stratacote.co.nz](mailto:info@stratacote.co.nz)

**Section 2: Hazards Identification****GHS Hazard Classification(s)**

In accordance with OSHA Hazard Communication Standard 29CFR 1910.1200 (HazCom 2012).

**Physical Hazard(s)**

Corrosive to Metals - 1

**Health Hazard(s)**

(Corrosion) Damage/Irritation, Eye - 1

Acute Toxicity, Oral - 4

**Environmental Hazard(s)**

Not classified.

**Label Elements****Signal Word**

**DANGER**

**Hazard Symbol(s)****Hazard Statement(s)**

H290: May be corrosive to metals.

H302: Harmful if swallowed.

H318: Causes serious eye damage.

**Precautionary Statements****General**

Not applicable.

**Prevention**

P234: Keep only in original container.

P264: Wash face, hands and any exposed skin thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

**Response**

P301 + P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

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/physician.

P330: Rinse mouth.

P390: Absorb spillage to prevent material damage.

**Storage**

P406: Store in corrosive resistant container with a resistant inner liner.

**Disposal**

P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**Hazard(s) not otherwise classified (HNOC)**

None known.

**Section 3: Composition/Information on Ingredients****Mixture**

Chemical Identity <sup>2</sup>	Common Name/Synonym(s)	CAS # <sup>3</sup>	Weight %	Impurity or Stabilizing Additive
Urea, Monohydrochloride	-	506-89-8	50 - < 60 %	No
Performance additives	-	Proprietary	1 - < 5%	No

1. Information regarding the composition and the percent ranges of the mixtures ingredients are not presented as it Confidential Business Information (CBI). Where a medical emergency exists (as determined by medical professional), timely disclosure of CBI is assured. The information omitted pertains to only the names of the substances and the concentration in the mixture (product) and can only be requested by a doctor/physician or Local/State/Provincial or Federal Authority.

2. Non-hazardous ingredients are not presented as to protect the proprietary formula of the product.

3. "—" Indicates ingredient is a mixture and contains multiple ingredients or may have no identifying CAS number.

**Section 4: First-Aid Measures****General Information**

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Wash contaminated clothing before reuse.

**Inhalation**

Move to fresh air. Call a physician if symptoms develop or persist.

**Skin Contact**

Wash off with soap and water. Get medical attention if irritation develops and persists.

**Eye Contact**

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

**Ingestion**

Rinse mouth. Get medical attention if symptoms occur.

**Most important symptoms/effects, acute and delayed****Symptoms**

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

**Indication of immediate medical attention and special treatment needed****Hazards**

No data available.

**Treatment**

Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

**Section 5: Fire-Fighting Measures****General Fire Hazards**

No data available.

**Suitable (and Unsuitable) Extinguishing Media****Suitable Extinguishing Media**

Water fog. Foam. Dry chemical powder. Carbon Dioxide.

**Unsuitable Extinguishing Media**

None known.

**Specific Hazards Arising from the Chemical**

During fire, gases hazardous to health may be formed.

**Special Protective Equipment and Precautions for Firefighters****Special Fire-Fighting Equipment Procedures**

No data available.

**Special Protective Equipment for Fire-Fighters**

As in any fire, wear self-contained breathing apparatus pressure-demand (OSHA/NIOSH approved or equivalent) and full protective gear.

**Section 6: Accidental Release Measures**

**Personal Precautions, Protective Equipment and Emergency Procedures**

Immediately contact emergency personnel. Stop leak if without risk Use suitable protective equipment. Keep unnecessary personnel away. Do not touch or walk through spilled material.

**Methods and Materials for Containment and Clean-Up**

If emergency personnel are unavailable, vacuum or carefully scoop up spilled material and place in an appropriate container for disposal Avoid creating dusty conditions and prevent wind disposal.

**Notification Procedures**

No data available.

**Environmental Precautions**

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers. Inform the relevant authorities if the product has caused environmental pollution (Sewers, waterways, soil, or air).

**Section 7: Handling and Storage****Precautions for Safe Handling**

Use caution when handling/transferring. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Do not breathe mist or vapor. Use only with adequate ventilation. Wear appropriate personal protective equipment. Transfer and storage systems should be compatible. Observe good industrial hygiene practices.

**Conditions for Safe Storage, including any Incompatibilities**

Keep out of reach of children. Keep container in a cool, well-ventilated area. Keep container tightly closed. Store between the following temperatures: 40 and 120 °F.

**Section 8: Exposure Controls/Personal Protection****Control Parameters****Occupational Exposure Limits**

The product does not contain any relevant quantities of hazardous materials with critical values that have to be monitored in the workplace.

**Biological Limit Values**

The product does not contain any relevant quantities of hazardous materials with assigned biological limit values.

**Appropriate Engineering Controls**

Provide eyewash station. Use general ventilation.

**Individual protection measures, such as personal protective equipment (PPE)****General Information**

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

**Eye/Face Protection**

Wear safety glasses with side shields.

**Skin Protection****Hand Protection**

Wear appropriate chemical resistant gloves.

**Other**

Wear appropriate chemical resistant clothing.

**Respiratory Protection**

No personal respiratory protective equipment normally required.

**Hygiene Measures**

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated footwear that cannot be cleaned. Wash hands before breaks and immediately after handling the product. Wash contaminated clothing before reuse. Avoid contact with eyes, skin, and clothing.

**Section 9: Physical and Chemical Properties****Appearance:**

Physical State:

Liquid

Color:

Clear amber

**Odor:**

Pungent

**Odor Threshold:**

Not available.

**pH:**

< 1 (<1.0 at 1:16)

**Melting Point/Freezing Point:**

Less than -30 °F

**Initial Boiling Point and Boiling Range:**

212 °F (100 °C)

**Flash Point:**

None to boiling.

**Evaporation Rate (butyl acetate=1):**

Not available.

**Flammability (solid, gas):**

Not available.

**Upper/Lower Limit on Flammability or Explosive Limits**

Flammability Limit – Upper:

Not available.

Flammability Limit – Lower:

Not available.

Explosive Limit – Upper:

No data available.

Explosive Limit – Lower:	No data available.
Vapor Pressure:	No data available.
Vapor Density (air = 1):	Not available.
Relative Density (water = 1):	1.2 – 1.3
Solubility(ies):	
Solubility in water:	Complete
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-Ignition Temperature:	No data available.
Decomposition Temperature:	No data available.
Viscosity:	No data available.
Other Information:	
Molecular Weight:	No data available.
Formula:	No data available.

## Section 10: Stability and Reactivity

### Reactivity

Reactive or incompatible with the following materials: alkalis, metals

### Chemical Stability

Stable. Contact with some metals may produce flammable hydrogen gas.

### Possibility of Hazardous Reactions

Hazardous polymerization does not occur.

### Conditions to Avoid

Heating above 110 °C results in an exothermic decomposition with rapid release of carbon dioxide gas.

### Incompatible Materials

Avoid contact with oxidizers. This material may be extremely hazardous in contact with chlorates or nitrates. This material is acidic. Contact with hypochlorite (e.g. chlorine bleach, sulfides, or cyanides) will liberate toxic gases. Contact with alkaline materials (e.g. aqua ammonia) will generate heat.

### Hazardous Decomposition Products

Thermal decomposition may yield oxides of carbon, nitrogen, and chlorine. Hydrogen gas may be released upon contact with certain metals.

## Section 11: Toxicological Information

### Information on routes of exposure

**Ingestion:** Expected to be a low ingestion hazard. May cause discomfort if swallowed.

**Inhalation:** No adverse effects due to inhalation are expected.

**Skin Contact:** No adverse effects due to skin contact are expected.

**Eye Contact:** Causes serious eye damage.

### Information on Toxicological Effects

#### Acute Toxicity (List all possible routes of exposure)

##### Oral

No data available.

##### Dermal

No data available.

##### Inhalation

No data available.

##### Repeated Dose Toxicity

No data available.

### Skin Corrosion/Irritation

No data available.

### Serious Eye Damage/Eye Irritation

No data available.

### Respiratory/Skin Sensitization

No data available.

### Carcinogenicity

#### IARC Monographs on the Evaluation of Carcinogenic Risks to Humans

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

#### US. National Toxicology Program (NTP) Report on Carcinogens

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

### Germ Cell Mutagenicity

**In Vitro***No data available.***In Vivo***No data available.***Reproductive Toxicity***No data available.***Specific Target Organ Toxicity – Single Exposure***No data available.***Specific Target Organ Toxicity – Repeated Exposure***No data available.***Aspiration Hazard***No data available.***Other Effects***No data available.***Section 12: Ecological Information****Ecotoxicity****Acute Hazards to the Aquatic Environment****Fish***No data available.***Aquatic Invertebrates***No data available.***Toxicity to Aquatic Plants***No data available.***Chronic Hazards to the Aquatic Environment****Fish***No data available.***Aquatic Invertebrates***No data available.***Toxicity to Aquatic Plants***No data available.***Persistence and Degradability****Biodegradation***This material is expected to biodegrade.***BOD/COD Ratio***No data available.***Bioaccumulative Potential****Bioconcentration Factor (BCF)***This material does not contain chemicals that have known bioaccumulative potential.***Partition Coefficient n-octanol / water (log Kow)***No data available.***Mobility in Soil***No data available.***Other Adverse Effects***None known.***Section 13: Disposal Considerations****Disposal Instructions**

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Contaminated Packaging**

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warning even after container is emptied.

**Section 14: Transportation Information****International Maritime Dangerous Goods (IMDG) / International Air Transport Association (IATA)**

UN Number: UN 1760  
UN Proper Shipping Name: Corrosive liquids, n.o.s.  
Technical Name: (contains organic acid salts)  
Hazard Class : 8  
Subsidiary Hazard Risk: -  
Packing Group: III  
Reportable Quantity (RQ): No  
Marine Pollutant: No  
Poison Inhalation Hazard: No  
Emergency Response Guidebook (ERG) #: 154

Important Note: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Consult your company's Hazardous Materials/Dangerous Goods expert for information specific to your situation.

**Section 15: Other Information****Hazardous Materials Identification System (HMIS®) Classification****Health Hazard: 2****Chronic Health Hazard: /****Flammability: 0****Physical Hazard: 0**

(Hazard Rating: 0 – Minimal / 1 – Slight / 2 – Moderate / 3 – Serious / 4 – Severe)

**National Fire Protection Association (NFPA 704) Rating****Health Hazard: 2****Fire Hazard: 0****Reactivity Hazard: 0****Special: N/A**

(Hazard Rating: 0 – Minimal / 1 – Slight / 2 – Moderate / 3 – Serious / 4 – Severe)

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**Key to Abbreviations and Acronyms**

ATE – Acute Toxicity Estimate  
BCF – Bioconcentration Factor  
EC50 – Effective concentration, 50%  
IDHL – Immediately Dangerous to Life and Health  
Kg – Kilogram  
l – Liter  
lb – Pound  
LC50 – Lethal Concentration, 50%  
LD50 – Lethal Dose, 50%  
mg – milligram  
ml – milliliter  
N/A – Not Applicable  
N/D – Not Determined  
PEL – Permissible Exposure Limit  
REL – Recommended Exposure Limit  
STEL – Short-term Exposure Limit  
TWA – Time weighted average

ACGIH – American Conference of Industrial Hygienists  
AIHA – American Industrial Hygiene Association  
BEI – Biological Exposure Indices  
CAS – Chemical Abstracts Service  
DOT – US Department of Transportation  
EPA – US Environmental Protection Agency  
GHS – Globally Harmonized System of Classification and Labelling of Chemicals  
IARC – International Agency for Research on Cancer  
IATA – International Air Transport Association  
IBC – Intermediate Bulk Container  
IMDG – International Maritime Dangerous Goods  
NIOSH – National Institute for Occupational Safety and Health  
NTP – National Toxicology Program  
OSHA – US Occupational Health and Safety Administration  
SARA – US EPA Superfund Amendments and Reauthorization Act  
TSCA – US EPA Toxic Substances Control Act  
UN – United Nations

**References**

HSDB® – Hazardous Substances Data Bank

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