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**1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER**

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**1.1 Product identifier**

**Product name** ELITE HCL ACID INHIBITOR  
**Synonyms** HCL ACID INHIBITOR

**1.2 Uses and uses advised against**

**Uses** INDUSTRIAL APPLICATIONS • SPECIALTY CHEMICAL • SURFACE FINISHING

**1.3 Details of the supplier of the product**

**Supplier name** DUBOIS CHEMICALS AUSTRALIA PTY LIMITED  
**Address** 305 Frankston Dandenong Rd, Dandenong South, VIC, 3175, AUSTRALIA  
**Telephone** (03) 9768 3860  
**Email** [sales@duboischemicals.com.au](mailto:sales@duboischemicals.com.au)  
**Website** <http://duboischemicals.com.au/>

**1.4 Emergency telephone numbers**

**Emergency** 13 11 26 (Poisons Information Centre)

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**2. HAZARDS IDENTIFICATION**

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**2.1 Classification of the substance or mixture**

CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

**Physical Hazards**

Not classified as a Physical Hazard

**Health Hazards**

Skin Corrosion/Irritation: Category 2  
Skin Sensitisation: Category 1  
Serious Eye Damage / Eye Irritation: Category 2A  
Respiratory Sensitisation: Category 1  
Carcinogenicity: Category 2

**Environmental Hazards**

Not classified as an Environmental Hazard

**2.2 GHS Label elements**

**Signal word** DANGER

**Pictograms****Hazard statements**

H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H351 Suspected of causing cancer.

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### Prevention statements

|      |   |
|------|---|
| P201 | Obtain special instructions before use.   |
| P202 | Do not handle until all safety precautions have been read and understood.                     |
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray.   |
| P264 | Wash thoroughly after handling.   |
| P272 | Contaminated work clothing should not be allowed out of the workplace.                        |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. |
| P284 | Wear respiratory protection.  |

### Response statements

|                    |  |
|--------------------|--|
| P302 + P352        | IF ON SKIN: Wash with plenty of water.   |
| P304 + P340        | IF INHALED: Remove person to fresh air and keep 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.  |
| P321               | Specific treatment is advised - see first aid instructions.  |
| P362 + P364        | Take off contaminated clothing and wash it before reuse.   |

### Storage statements

P405 Store locked up.

### Disposal statements

P501 Dispose of contents/container in accordance with relevant regulations.

### 2.3 Other hazards

No information provided.

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## 3. COMPOSITION/ INFORMATION ON INGREDIENTS

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### 3.1 Substances / Mixtures

| Ingredient                           | CAS Number    | EC Number     | Content   |
|--------------------------------------|---------------|---------------|-----------|
| METHENAMINE (HEXAMETHYLENETETRAMINE) | 100-97-0      | 202-905-8     | <10%      |
| 1,3-DIETHYL-2-THIOUREA               | 105-55-5      | 203-308-5     | <5%       |
| 2-BUTOXYETHANOL                      | 111-76-2      | 203-905-0     | <5%       |
| NON HAZARDOUS INGREDIENTS            | Not Available | Not Available | Remainder |

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## 4. FIRST AID MEASURES

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### 4.1 Description of first aid measures

|                             |  |
|-----------------------------|--|
| <b>Eye</b>                  | If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes. |
| <b>Inhalation</b>           | If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.  |
| <b>Skin</b>                 | If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.   |
| <b>Ingestion</b>            | For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor (at once).   |
| <b>First aid facilities</b> | Eye wash facilities and safety shower should be available.   |

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

See Section 11 for more detailed information on health effects and symptoms.

### 4.3 Immediate medical attention and special treatment needed

Treat symptomatically.

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## 5. FIRE FIGHTING MEASURES

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### 5.1 Extinguishing media

Use an extinguishing agent suitable for the surrounding fire.

### 5.2 Special hazards arising from the substance or mixture

Non flammable. May evolve carbon oxides and hydrocarbons when heated to decomposition.

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### 5.3 Advice for firefighters

Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

### 5.4 Hazchem code

None allocated.

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## 6. ACCIDENTAL RELEASE MEASURES

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### 6.1 Personal precautions, protective equipment and emergency procedures

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS.

### 6.2 Environmental precautions

Prevent product from entering drains and waterways.

### 6.3 Methods of cleaning up

Contain spillage, then cover / absorb spill with non-combustible absorbent material (vermiculite, sand, or similar), collect and place in suitable containers for disposal.

### 6.4 Reference to other sections

See Sections 8 and 13 for exposure controls and disposal.

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## 7. HANDLING AND STORAGE

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### 7.1 Precautions for safe handling

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated area, removed from incompatible substances and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use.

### 7.3 Specific end uses

No information provided.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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### 8.1 Control parameters

#### Exposure standards

| Ingredient             | Reference      | TWA |                   | STEL |                   |
|------------------------|----------------|-----|-------------------|------|-------------------|
|                        |                | ppm | mg/m <sup>3</sup> | ppm  | mg/m <sup>3</sup> |
| 2-Butoxyethanol (EGBE) | SWA [AUS]      | 20  | 96.9              | 50   | 242               |
| 2-Butoxyethanol (EGBE) | SWA [Proposed] | 10  | 49                | 50   | 242               |

#### Biological limits

| Ingredient      | Determinant  | Sampling Time | BEI                 |
|-----------------|--|---------------|---------------------|
| 2-BUTOXYETHANOL | Butoxyacetic acid (BAA) in urine (with hydrolysis) | End of shift  | 200 mg/g creatinine |

Reference: ACGIH Biological Exposure Indices

### 8.2 Exposure controls

**Engineering controls** Avoid inhalation. Use in well ventilated areas.

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**PPE**

|                    |   |
|--------------------|---|
| <b>Eye / Face</b>  | Wear splash-proof goggles.  |
| <b>Hands</b>       | Wear PVC or rubber gloves.  |
| <b>Body</b>        | When using large quantities or where heavy contamination is likely, wear coveralls. |
| <b>Respiratory</b> | Not required under normal conditions of use.  |



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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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**9.1 Information on basic physical and chemical properties**

|                                  |                                   |
|----------------------------------|-----------------------------------|
| <b>Appearance</b>                | CLEAR LIGHT STRAW COLOURED LIQUID |
| <b>Odour</b>                     | SLIGHT ODOUR                      |
| <b>Flammability</b>              | NON FLAMMABLE                     |
| <b>Flash point</b>               | NOT RELEVANT                      |
| <b>Boiling point</b>             | 100°C                             |
| <b>Melting point</b>             | 0°C                               |
| <b>Evaporation rate</b>          | NOT AVAILABLE                     |
| <b>pH</b>                        | 5.5 to 6.0                        |
| <b>Vapour density</b>            | NOT AVAILABLE                     |
| <b>Relative density</b>          | 1.03 to 1.04                      |
| <b>Solubility (water)</b>        | SOLUBLE                           |
| <b>Vapour pressure</b>           | NOT AVAILABLE                     |
| <b>Upper explosion limit</b>     | NOT RELEVANT                      |
| <b>Lower explosion limit</b>     | NOT RELEVANT                      |
| <b>Partition coefficient</b>     | NOT AVAILABLE                     |
| <b>Autoignition temperature</b>  | NOT AVAILABLE                     |
| <b>Decomposition temperature</b> | NOT AVAILABLE                     |
| <b>Viscosity</b>                 | NOT AVAILABLE                     |
| <b>Explosive properties</b>      | NOT AVAILABLE                     |
| <b>Oxidising properties</b>      | NOT AVAILABLE                     |
| <b>Odour threshold</b>           | NOT AVAILABLE                     |

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**10. STABILITY AND REACTIVITY**

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**10.1 Reactivity**

Carefully review all information provided in sections 10.2 to 10.6.

**10.2 Chemical stability**

Stable under recommended conditions of storage.

**10.3 Possibility of hazardous reactions**

Polymerization will not occur.

**10.4 Conditions to avoid**

Avoid heat, sparks, open flames and other ignition sources.

**10.5 Incompatible materials**

Incompatible with oxidising agents (e.g. hypochlorites) and acids (e.g. nitric acid).

**10.6 Hazardous decomposition products**

May evolve carbon oxides and hydrocarbons when heated to decomposition.

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**11. TOXICOLOGICAL INFORMATION**

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**11.1 Information on toxicological effects**

**Acute toxicity** Acute oral exposure may result in irritation of the mouth, throat, oesophagus and gastrointestinal tract.

**PRODUCT NAME ELITE HCL ACID INHIBITOR****Information available for the ingredients:**

| Ingredient                              | Oral LD50                   | Dermal LD50        | Inhalation LC50     |
|---|-----------------------------|--------------------|---------------------|
| METHENAMINE<br>(HEXAMETHYLENETETRAMINE) | > 2000 mg/kg (rat)          | > 2000 mg/kg (rat) | --                  |
| 1,3-DIETHYL-2-THIOUREA                  | 316 mg/kg (rat)             | --                 | --                  |
| 2-BUTOXYETHANOL                         | ~1200 mg/kg (rat)<br>(ECHA) | 220 mg/kg (rabbit) | 450 mg/L/4hrs (rat) |

|                                 |   |
|---------------------------------|---|
| <b>Skin</b>                     | Contact may result in irritation, rash and dermatitis.  |
| <b>Eye</b>                      | Contact may result in irritation, lacrimation and redness.  |
| <b>Sensitisation</b>            | May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| <b>Mutagenicity</b>             | Not classified as a mutagen.  |
| <b>Carcinogenicity</b>          | 1,3-diethyl-2-thiourea is suspected of causing cancer.  |
| <b>Reproductive</b>             | Not classified as a reproductive toxin.   |
| <b>STOT - single exposure</b>   | Over exposure may result in respiratory irritation, nausea, dizziness, drowsiness and headache.                 |
| <b>STOT - repeated exposure</b> | Not classified as causing organ damage from repeated exposure.  |
| <b>Aspiration</b>               | Not classified as causing aspiration.   |

**12. ECOLOGICAL INFORMATION****12.1 Toxicity**

No ecological damage is expected to be caused by this product.

**12.2 Persistence and degradability**

Not expected to be persistent in the aquatic environment.

**12.3 Bioaccumulative potential**

Not expected to bioaccumulate.

**12.4 Mobility in soil**

Soluble in water. Highly mobile in soils.

**12.5 Other adverse effects**

No information provided.

**13. DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

**Waste disposal** For small amounts, absorb with sand, vermiculite or similar and dispose of to an approved landfill site. For large quantities, contact the manufacturer/supplier for additional information. Prevent contamination of drains and waterways as aquatic life may be threatened and environmental damage may result.

**Legislation** Dispose of in accordance with relevant local legislation.

**14. TRANSPORT INFORMATION****NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE, IMDG OR IATA**

|                                    | LAND TRANSPORT (ADG) | SEA TRANSPORT (IMDG / IMO) | AIR TRANSPORT (IATA / ICAO) |
|------------------------------------|----------------------|----------------------------|-----------------------------|
| <b>14.1 UN Number</b>              | None allocated.      | None allocated.            | None allocated.             |
| <b>14.2 Proper Shipping Name</b>   | None allocated.      | None allocated.            | None allocated.             |
| <b>14.3 Transport hazard class</b> | None allocated.      | None allocated.            | None allocated.             |
| <b>14.4 Packing Group</b>          | None allocated.      | None allocated.            | None allocated.             |

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**14.5 Environmental hazards**

No information provided.

**14.6 Special precautions for user**

Hazchem code None allocated.

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**15. REGULATORY INFORMATION**

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

**Poison schedule** A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

**Classifications** Safe Work Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals (GHS Revision 7).

**Inventory listings** **AUSTRALIA: AIIC (Australian Inventory of Industrial Chemicals)**  
All components are listed on AIIC, or are exempt.

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**16. OTHER INFORMATION**

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**Additional information** PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:  
The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as form of product, method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

HEALTH EFFECTS FROM EXPOSURE:  
It should be noted that the effects from exposure to this product will depend on several factors including: form of product; frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

**Abbreviations**

|                   |   |
|-------------------|---|
| ACGIH             | American Conference of Governmental Industrial Hygienists                                       |
| CAS #             | Chemical Abstract Service number - used to uniquely identify chemical compounds                 |
| CNS               | Central Nervous System  |
| EC No.            | EC No - European Community Number   |
| EMS               | Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous Goods)                   |
| GHS               | Globally Harmonized System  |
| GTEPG             | Group Text Emergency Procedure Guide  |
| IARC              | International Agency for Research on Cancer   |
| LC50              | Lethal Concentration, 50% / Median Lethal Concentration   |
| LD50              | Lethal Dose, 50% / Median Lethal Dose   |
| mg/m <sup>3</sup> | Milligrams per Cubic Metre  |
| OEL               | Occupational Exposure Limit   |
| pH                | relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline). |
| ppm               | Parts Per Million   |
| STEL              | Short-Term Exposure Limit   |
| STOT-RE           | Specific target organ toxicity (repeated exposure)  |
| STOT-SE           | Specific target organ toxicity (single exposure)  |
| SUSMP             | Standard for the Uniform Scheduling of Medicines and Poisons                                    |
| SWA               | Safe Work Australia   |
| TLV               | Threshold Limit Value   |
| TWA               | Time Weighted Average   |

**PRODUCT NAME ELITE HCL ACID INHIBITOR**

**Report status**

This document has been compiled by RMT on behalf of the manufacturer, importer or supplier of the product and serves as their Safety Data Sheet ('SDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer, importer or supplier or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer, importer or supplier.

While RMT has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

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