


MATERIAL SAFETY DATA SHEET

<p>COMPANY:</p> <p>TRADE CORPORATION INTERNATIONAL S. A. UNIPERSONAL</p> <p>DIVISION: FERTILIZERS</p>	
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PRODUCT NAME: LOWER-7

1.- IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY /UNDERTAKING

1.1 Identification of the substance LOWER-7: Solution of Urea Sulphuric Acid aduct

Proper Shipping Name CORROSIVE LIQUIDS N.O.S.
(contains Sulphuric acid)

1.2 UN Number: 1760
D.G. Class: 8 (Corrosive)
Subsidiary Risk: None
Hazchem Code: 2X
Packaging Group: II
Poisons Schedule: 6

1.3 MANUFACTURING COMPANY:

1.3.1. Name: TRADE CORPORATION INTERNATIONAL, S.A. UNIPERSONAL

1.3.2. Address: Alcalá 498, 2ª planta
28027 Madrid
Spain

1.3.3. Telephone: +34 91 3273200

1.4 DISTRIBUTING COMPANY

1.3.1 Name: AGSPEC AUSTRALIA PTY LTD

1.3.2 Address: LOT 1, WANDILO ROAD, WANDILO, VIA MT GAMBIER,
SA, 5291

1.3.3 Telephone: 0427 490 551

1.5 Emergency telephone:


1.5.1. Company: Agspec Australia Pty Ltd
0427 490 551

1.5.2. Poisons Information Centre: **13 11 26**

2.- COMPOSITION / INFORMATION OF THE COMPONENTS

Chemical name	Concentration	Nº CAS	Nº EINECS	Classification	Phrases R/S	
					R	S
Urea-Sulphuric aduct	55%	21351-39-3	244-343-6	Corrosive	34,37 20/22	1/2,13,23, 26,28,45, 36/37/39

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3.- HAZARDS IDENTIFICATION

Corrosive acid: causes severe eye burns and irreversible damage. Ingestion may produce stomach perforation. It causes severe skin redness.
 If the product warms up over 110 °C, it decomposes violently producing CO₂. The heat provokes an increase of pressure at the risk of bursting the drum.

The product is marginally corrosively to metals, but increases its corrosive character in general when more than 52% is diluted.


4.- FIRST AID MEASURES

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| 4.1 | Skin contact: | Wash off the affected area with plenty of water while removing contaminated clothing, shoes and jewellery. If skin is not damaged, flush with plenty of soap (neutral) until any evidence of chemical disappears. If skin is damaged obtain medical attention. If redness appears, seek medical attention. |
| 4.2 | Eye contact: | Wash off immediately with water for 15 minutes. |
| 4.3 | Inhalation: | Move to the fresh air in case of accidental inhalation. |
| 4.4 | Ingestion: | If conscious without convulsions, rinse out mouth with water and drink milk to dilute the product. Do not induce vomiting. Obtain medical attention as soon as possible. |
| | Medical warning: | The ingestion of acids can perforate the oesophagus in the next 72 hours, but sometimes it is produced weeks later. Dilute the product when ingestion has occurred with plenty of milk. |

5.- FIRE-FIGHTING MEASURES: Non inflammable or explosive product.

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| 5.1 | Extinguishing media: | To use most adapted for the environment of the fire. Cool the equipment exposed to the fire with water. In case it can be done without risk, take the containers not damaged out of the affected zone. |
| 5.2 | Extinguishing media which must not be used for safety reasons: | |

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| 5.3 | Special exposure hazards: | Over 110 °C, the product descomposes detaching CO ₂ . Due to the increased pressure caused by the CO ₂ , there is a risk of breaking the closed containers. The diluted product, in touch with current metals, can generate Hydrogen, which can become flammable with the air. In the fire CO ₂ can be generated, Sulphur and nitrogen. |
| 5.4 | Special protective equipment for firefighters: | Adequate protection equipment: glasses, suit, impermeable boots, facial mask and autonomous respiratory equipment or respiratory mask as well as any other clothes or equipment recommended depending on the surrounding fire. |


6.- ACCIDENTAL RELEASE MEASURES

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| 6.1 | Personal precautions: | Handle the product according to safe and hygienic practices. Avoid contact with the product. |
| 6.2 | Environmental precautions: | Do not pour into water ways and sewer systems. |
| 6.3 | Methods for cleaning up: | Support out of the zone of spillage. Put up signs around the affected zone. Stop the spillage by forming a dike with sand or land. Retain or absorb the liquid spilt in sand, land or another appropriate material. Consult an expert. To dilute the remains that stay of the products with three parts water for one of product and later to neutralize it with sodium bicarbonate or carbonate. Do not try to neutralize it before it has been diluted. |

7.- HANDLING AND STORAGE

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| 7.1 | Handling precautions: | <p>Use adequate personal protection equipment. The areas of work have to be well ventilated. Otherwise, use adequate respiratory protection. Wash out with plenty of water after handling.</p> <p>Do not smoke, drink or eat while managing this storage. Do not mix in tank with any pure product.</p> <p>In application, do not exceed the maximum concentration of 0.1L per 1000L.</p> |
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7.2 Storage conditions: Support the closed packages and use only in its original package. Use and store the product in fresh, dry and well ventilated areas, far from inflammable materials: In case of long storage, small quantities can generate CO₂. Do not use with incompatible materials to avoid the physical alteration of the packages. In case of warming over 80°C, it is possible to produce the degradation of the product. It increases corrosiveness to metals when it is diluted over 52% in volume.

8.- EXPOSURE CONTROLS / PERSONAL PROTECTION

- 8.1 Engineering measures: Installation of eye bath and showers
- 8.2 Control of exposition limit:
- 8.3 Respiratory protection: If the ventilation is not adapted, use a gas mask with the appropriate chemical filters or equipment for air supply.
- 8.4 Hand protection: Use adequate protection gloves
- 8.5 Eye protection: Safety glasses
- 8.6 Skin protection: Use gloves, impermeable boots and aprons resistant to chemical agents to protect arms and legs. In case of risk of spillages, use acid resistant suit.

9.- PHYSICAL AND CHEMICAL PROPERTIES

Melting point/range	Not applicable	Aspect	Liquid
Boiling point	Close to 100 °C	Colour	Blue
Oxidizing properties	Not available	Density	1.50-1.52 g/cc approx
Flammability	Not applicable	Flash point	Not applicable
Solubility	Total	Ignition	Not applicable
Vapour pressure	Not available	pH	<1
Partition Coefficient	Not available	Viscosity	Not available
Explosion properties	Not applicable	Other data	

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10.- STABILITY AND REACTIVITY

- 10.1 Stability: Stable at ambient temperature and normal handling conditions. (Until 80°C)
- 10.2 Conditions to avoid: If it warms up over 110°C, it decomposes vigorously, generating CO₂.
- 10.3 Materials to avoid: Avoid contact with oxidizing agents. It is dangerous in touch with chlorates or sulphur based products. The contact with alkaline products generates heat. The contact with hypochlorites, sulphurs or cyanides will generate toxic gases.

11.- TOXICOLOGICAL INFORMATION

- 11.1 LD₅₀ (oral) in rats: Not available
- 11.2 Skin irritation, test in rabbits : Not available
- 11.3 Eyes irritation, test in rabbits Not available
- 11.4 Skin sensibility (test in rabbits): Not available

12.- ECOLOGICAL INFORMATION

- 12.1 LD₅₀ fish: Not available
- 12.2 EC₅₀ daphnia: Not available
- 12.3 IC₅₀ bacteria: Not available
- 12.4 Biodegradability: Biodegradable product
- 12.5 Additional information:

13.- DISPOSAL CONSIDERATIONS

Never spill in water courses or sewer nets.
 The rejected product must be treated with sodium carbonate or sodium bicarbonate, previously diluted in water in the proportion 3:1.
 Used packages have the same treatment than the product, regarding to elimination.

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14.- TRANSPORT INFORMATION

- road-ADR/rail: nº 1760, class 8 66b
- Sea (IMO/IMDG): no restricted

15.- REGULATORY INFORMATION

CLASSIFICATION: Corrosive

LABEL: C

Risk phrases:

R20: Harmful for inhalation
 R36,37,38: It irritates eyes, skin and respiratory ways

Safety phrases:

S2: Keep out the reach of children
 S13: Keep away from food, drinks, animal foods and cosmetics.
 S23: Do not breath the gases
 S26: In case of eye contact, wash up immediately with plenty of water and see a doctor
 S28: In case of skin contact, wash up immediately with plenty of water and soap
 S37/39: use adequate gloves and protection mask
 S45: In case of accident, come immediately to see a doctor and show the label if possible

Register number: Fertilizer of Annex 2. Acid solution of Nitrogenous fertilizer with sulphur

16.- OTHER INFORMATION

16.1 Recommended use: Agricultural use

16.2 Bibliography sources:

- Dir. 67/548/CEE (Dangerous substances)
- Dir. 1999/45/CE (Dangerous preparations)
- Dir. 91/689/CEE (Dangerous residues)
- Royal decree 55/2003 (Dangerous preparations)
- Royal decree 363/1995 (Dangerous substances)
- Royal decree 74/92 (Road transport)

16.3 FDS revision nº: 1

16.4 Date of last revision: January, 2007

The information included in these pages, is based on our knowledge of the product at the time of the edition. User is the responsible to take convenient safety precautions to the storage and handling, and use it according to the label. The information given in this MSDS does not constitute or replace the user's own assessment of workplace risk as required by other health and safety legislation.