	<b>Lower 7</b>	Page 1 of 12
		Issuing date: 30/11/2010
		Revision No.: 2.0
		Revision date: 13/06/2013
		Supersedes: 1.1

## 1. SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Commercial name: **Lower 7**

Chemical name: Uronium hydrogen sulphate

EC No: 244-343-6

CAS No: 21351-39-3

**REACH Registration Number: 01-2119782904-26-0000**

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

Identified uses: Fertilizer (Agriculture).

Uses advised against: Not identified.

### 1.3. Details of the supplier of the safety data sheet

Manufacturing company:

TRADE CORPORATION INTERNATIONAL, S.A.U.  
c/ Alcalá, 498 - 2nd floor  
28027 - Madrid (Spain)  
Telephone: +34 91 327 32 00 Fax: +34 91 304 71 72  
E-mail: [sds@tradecorp.sapec.pt](mailto:sds@tradecorp.sapec.pt)

Distributing company:  
Tradecorp APAC Pty.Ltd.  
174 Yambil Street  
Griffith - NSW 2680 (Australia)  
Contact number: 0448 016 025

### 1.4. Emergency telephone number


**Australia- 0448 016 025, 0402 902 242**

Tel.: +34 91 327 32 00 (9:00 - 17:00h, CET - Central European Time).

## 2. SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification in accordance with European Regulation (EC) No. 1272/2008:**  
H318 - Serious damage to eyes (Category 1)

	<b>Lower 7</b>	Page 2 of 12
		Issuing date: 30/11/2010
		Revision No.: 2.0
		Revision date: 13/06/2013
		Supersedes: 1.1

**Classification in accordance with European Directive 67/548/EEC:**

Xi – Irritant

R41: Risk of serious damage to eyes.

**2.2. Label elements**

**Hazard pictogram(s):**



**Signal word(s):**

Danger

**Hazard statement(s):**

H318: Causes serious eye damage.

**Precautionary statement(s):**

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

**2.3. Other hazards**

This product is not considered to be persistent, bioaccumulating nor toxic (PBT) (See section 12).

**3. SECTION 3: Composition/information on ingredients**

**3.1. Substances**

Chemical name	CAS No.	EINECS No.
Uronium hydrogen sulphate	21351-39-3	244-343-6


**3.2. Mixtures**

Not applicable.

**4. SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**Inhalation:**

	<h2>Lower 7</h2>	Page 3 of 12
		Issuing date: 30/11/2010
		Revision No.: 2.0
		Revision date: 13/06/2013
		Supersedes: 1.1

Keep patient at rest and maintain body temperature. Remove the victim to a ventilated area. Get medical attention. Give symptomatic and supportive treatment, if required.

**Skin contact:**

After contact with skin, remove contaminated clothing and wash immediately with plenty of water and soap. If irritation develops, seek medical attention.

**Eye contact:**

Immediately wash affected eyes for at least 15 minutes, taking care to rinse under eyelids. Consult an eye specialist.

**Ingestion:**

Rinse mouth with water. Get medical attention and show the label or packaging. Do not induce vomiting. If vomiting occurs, keep victim's head below hips to prevent aspiration.

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

Inhalation: No adverse effects are expected.

Skin contact: Not irritating.

Eye contact: Risk of serious damage to eyes.

Ingestion: Irritation of the gastric/intestinal mucosa.

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

All treatments should be based on observed signs and symptoms.

## 5. 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.

Unsuitable extinguishing media: Direct water spurt (water jet).


**5.2. Special hazards arising from the substance or mixture**

Possibility of exposure to toxic combustion products.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

**5.3. Advice for fire-fighters**

Special protective equipment for fire-fighters: In the event of fire, wear self-contained breathing apparatus and personal protective equipment.

	<h2>Lower 7</h2>	Page 4 of 12
		Issuing date: 30/11/2010
		Revision No.: 2.0
		Revision date: 13/06/2013
		Supersedes: 1.1

## 6. SECTION 6: Accidental release measures

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

Isolate and delimit the affected area.  
 Eliminate all sources of ignition.  
 Use personal protective equipment and respiratory protection.  
 Avoid contact with skin and eyes.  
 Evacuate personnel to safe areas.  
 Ensure adequate ventilation.

### 6.2. Environmental precautions

Prevent the product reaches the sewer.  
 Prevent soil contamination.

### 6.3. Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so.  
 Neutralise with 90-95% H<sub>2</sub>O + 5-10% NaCO<sub>3</sub> + 0.2-2% detergent.  
 Clean up with absorbent materials (eg. soil, sand, diatomaceous earth or any non-flammable absorbent).  
 Store collected material in adequate containers for disposal. Label these containers and manage in accordance with local regulations.  
 Do not mix with other waste materials.  
 If there are spills or uncontrolled discharges on surface waters (or water for public use), immediately inform the local authorities.

### 6.4. Reference to other sections

See Sections 8 and 13.


## 7. SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

See also Section 8.  
 Use personal protective equipment (PPE). Avoid contact with skin, eyes and clothing.  
 Ensure adequate ventilation.  
 Do not handle the product near a source of ignition or near open flame.  
 Do not smoke, drink or eat while handling the product.  
 Wash hands with soap after handling and before eating, drinking, smoking or using the toilet.  
 Remove clothing immediately if the product is inside. Wash skin thoroughly with mild soap and dress clean clothes.

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

Do not store near or with any of the incompatible materials listed in Section 10.  
 Do not store with food, beverages, feed and water supplies.  
 Do not store near flame, heat sources or near strong oxidizing agents.

	<h2>Lower 7</h2>	Page 5 of 12
		Issuing date: 30/11/2010
		Revision No.: 2.0
		Revision date: 13/06/2013
		Supersedes: 1.1

Avoid extreme temperatures.

Store the product in the original container.

Keep tightly closed containers in a dry, cool and well ventilated sheltered from the sun.

Keep out of reach of unauthorized persons, children and animals.

### 7.3. Specific end use(s)

See section 1.2.

See also chapter Exposure scenarios.

## 8. SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No national occupational exposure limit values have been established.

Derived No Effect Level (DNEL):

**DNELs for workers:** 3.059 mg/kg bw/day (dermal exposure)  
2.697 mg/m<sup>3</sup> (inhalation)

**DNELs for general population:** 1.53 mg/kg bw/day (dermal exposure)  
0.665 mg/m<sup>3</sup> (inhalation)  
1.53 mg/kg bw/day (oral exposure)

Predicted No Effect Concentration (PNEC):

**PNEC aqua:** Aquatic toxicity unlikely.

**PNEC sediment:** No exposure of sediment expected.

**PNEC soil:** No exposure of soil expected.

**PNEC sewage treatment plant:** 92 mg/L.

**PNEC oral (secondary poisoning):** No potential for bioaccumulation.

### 8.2. Exposure controls

#### 8.2.1 Proper technical controls

See also Section 7.


Ensure adequate ventilation and/or exhaust ventilation.

#### 8.2.2 Individual protective measures

**Respiratory protection:** In case of insufficient ventilation wear suitable respiratory equipment. Respirator with filter A.

**Hand protection:** Protective gloves complying with EN 374. Impervious gloves. Solvent-resistant gloves.

**Eye protection:** Safety glasses with side-shields conforming to EN166 or facial protection screen.

	<h2>Lower 7</h2>	Page 6 of 12
		Issuing date: 30/11/2010
		Revision No.: 2.0
		Revision date: 13/06/2013
		Supersedes: 1.1

**Skin and body protection:** Choose body protection according to the amount and concentration of the dangerous substance at the work place.

**Hygiene measures:** Handle in accordance with good industrial hygiene and safety practice. Have eye wash bottle with distilled water. Remove and wash contaminated clothing before reuse. Wash hands before breaks and immediately after handling.

### 8.2.3 Environmental exposure controls

Do not flush into surface waters or sanitary drain systems.


## 9. SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Appearance:</b>	Green liquid
<b>Odour:</b>	Odourless
<b>Odour threshold:</b>	Not applicable
<b>pH:</b>	0
<b>Boiling point:</b>	140 °C at 1013 hPa
<b>Melting point:</b>	< -150 °C
<b>Flash point:</b>	> 125 °C
<b>Flammability:</b>	Non flammable
<b>Self-ignition temperature:</b>	> 656 °C
<b>Explosive properties:</b>	Non explosive
<b>Oxidizing properties:</b>	Non oxidising
<b>Evaporation rate:</b>	No data available
<b>Vapour pressure:</b>	900 Pa at 25 °C
<b>Water solubility:</b>	Completely miscible
<b>Viscosity:</b>	No data available
<b>Density:</b>	1.5 g/cm <sup>3</sup> at 20 °C
<b>Partition coefficient n-octanol/water (log Pow):</b>	-1.73

### 9.2. Other information

No data available.

	<b>Lower 7</b>	Page 7 of 12
		Issuing date: 30/11/2010
		Revision No.: 2.0
		Revision date: 13/06/2013
		Supersedes: 1.1

## 10. SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is not reactive under normal conditions.

### 10.2. Chemical stability

The product is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

### 10.3. Possibility of hazardous reactions

No hazard reactions are expected under normal processing.

### 10.4. Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition.

### 10.5. Incompatible materials

- Strong acids
- Strong bases
- Carbonates
- Oxidising agents

### 10.6. Hazardous decomposition products

No data available.

## 11. SECTION 11: Toxicological information

### 11.1. Information on toxicological effects


**(a) Acute toxicity:** LD50 (dermal, rat): > 2000 mg/kg (OECD Guideline 402).  
LD50 (oral, rat): > 2000 mg/kg (OECD Guideline 423).

Following these results, the product does not meet the criteria for classification.

**(b) Skin corrosion/irritation:** Not irritating (rabbit) (OECD Guideline 404).

Following this result, the product does not meet the criteria for classification.



	<h2>Lower 7</h2>	Page 8 of 12
		Issuing date: 30/11/2010
		Revision No.: 2.0
		Revision date: 13/06/2013
		Supersedes: 1.1

**(c) Eye damage/irritation:** Irritant (in vitro) (HET-CAM test): Eye damage, Cat. 1: Causes serious eye damage.

**(d) Respiratory or skin sensitization:** Not sensitising (mice) (LLNA based on OECD Guideline 429).

Following this result, the product does not meet the criteria for classification.

**(e) CMR – Carcinogenicity, Mutagenicity and Reproductive toxicity:** No data available.

**(f) STOT – single and repeated exposure:** No adverse effects are expected.

**(g) Aspiration hazard:** No data available.

## 12. SECTION 12: Ecological information

### 12.1. Toxicity

#### (a) Aquatic toxicity:

The product readily degrades in the environment. The degradation products have been considered in the aquatic toxicity assessment and these are the conclusions:

- The product is not acutely toxic to fish.
- The product is not acutely toxic to aquatic invertebrates.
- The product is not toxic to aquatic algae.
- The product has not inhibitory effect on sewage sludge microorganisms.

**(b) Sediment toxicity:** No data available.

**(c) Terrestrial toxicity:** No data available.

### 12.2. Persistence and degradability

The product is readily biodegradable.

### 12.3. Bioaccumulative potential

The product does not bioaccumulate (Log Pow = -1.73).

### 12.4. Mobility in soil

The product is completely soluble in water.


### 12.5. Results of PBT and vPvB assessment

This product is not considered to be persistent, bioaccumulating nor toxic (PBT).

### 12.6. Other adverse effects

No data available.



	<h2>Lower 7</h2>	Page 9 of 12
		Issuing date: 30/11/2010
		Revision No.: 2.0
		Revision date: 13/06/2013
		Supersedes: 1.1

### 13. SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Dispose of waste materials at a licensed site.

Rinse with water the used containers three times and empty the water into the application tank.

Do not burn containers, even after use. Disable the used packaging and dispose of content and/or empty containers in accordance with local, regional, national, and/or international regulations.

### 14. SECTION 14: Transport information


<b>ADR class:</b>	8
<b>Classification code:</b>	C9
<b>Labels:</b>	8
<b>UN number:</b>	1760
<b>IP number:</b>	80
<b>Packing group:</b>	III
<b>Limited amounts:</b>	LQ7
<b>Transport class (1.1.3.6):</b>	3
<b>Transport designation:</b>	UN 1760, CORROSIVE LIQUID, N.O.S. (Acid urea 119 % w/v), 8, III
<b>OMI/IMDG class:</b>	8
<b>Labels:</b>	8
<b>ONU number:</b>	1760
<b>Packing group:</b>	III
<b>Exempted interior packing until:</b>	5 L
<b>FEM:</b>	F-A, S-B
<b>Stowage:</b>	class A. Isolated from habitable areas.
<b>Marine contaminant:</b>	No
<b>Transport designation:</b>	UN 1760, CORROSIVE LIQUID, N.O.S. (Acid urea 119 % w/v), 8, III
<b>ICAO/IATA class:</b>	8
<b>Labels:</b>	Corrosive (7.3.P)
<b>Secondary risk:</b>	-
<b>ONU number:</b>	1760
<b>Packing group:</b>	III
<b>Packing instruction in passenger's aircraft:</b>	Y818, 818
<b>Packing instructions in cargo aircraft:</b>	820
<b>Transport designation:</b>	UN 1760, CORROSIVE LIQUID, N.O.S. (Acid urea 119 % w/v), 8, III

### 15. SECTION 15: Regulatory information

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

- Hazardous Substances Information System (HSIS – Safe Work Australia).

- Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(2004)] 3rd Edition.

	<h2>Lower 7</h2>	Page 10 of 12
		Issuing date: 30/11/2010
		Revision No.: 2.0
		Revision date: 13/06/2013
		Supersedes: 1.1

- National Model Regulations for the Control of Workplace Hazardous Substances [NOHSC:1005(1994)].

- List of Designated Hazardous Substances (NOHSC).

- Directive 67/548/EEC on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances.

- European Regulation (EC) No.1272/2008 on classification, labelling and packaging of substances and mixtures.

- European Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).

- Commission Regulation (EU) No. 453/2010, amending Regulation (EC) No. 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).

### 15.2. Chemical safety assessment

A Chemical Safety Assessment has been carried out for this product.

## 16. SECTION 16: Other information

### Revision of this safety data sheet:

Revision number: 3.0

Supersedes: 2.1

Added, deleted or revised information: New layout.

### Legend to abbreviations:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

DL50: Lethal dose 50%

DNEL: Derived No Effect Level

IATA: International Air Transport Association.


ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.2

IMDG: International Maritime Dangerous Goods.

LC50: Lethal concentration 50%

NOEC: No observed effect concentration

PBT: Persistent, Bioaccumulative and Toxic.

	<b>Lower 7</b>	Page 11 of 12
		Issuing date: 30/11/2010
		Revision No.: 2.0
		Revision date: 13/06/2013
		Supersedes: 1.1

PNEC: Predicted No Effect Concentration

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

STOT: Specific Target Organ Toxicity.

vPvB: Very Persistent and very Bioaccumulative.

**Key literature references and sources for data:**

Safe Work Australia - HSIS Navigation: <http://hsis.ascc.gov.au/SearchHS.aspx>

ESIS: European Chemical Substances Information System.

ECHA: European Chemicals Agency <http://echa.europa.eu/>

Classification and Labelling Inventory Database <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Institute for Health and Consumer Protection (European Commission): <http://ihcp.jrc.ec.europa.eu/>  
Instituto Nacional de Seguridad e Higiene en el trabajo <http://www.insht.es>

Riskquim <http://riskquim.insht.es:86/riskquim/clp/>

Chemical Safety Report - TRADE CORPORATION INTERNATIONAL, S.A.U.

**List of relevant hazard statements and/or precautionary statements:**

**Hazard statement:**


H318: Causes serious eye damage.

**Precautionary statement:**

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

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.

	<b>Lower 7</b>	Page 12 of 12
		Issuing date: 30/11/2010
		Revision No.: 2.0
		Revision date: 13/06/2013
		Supersedes: 1.1

The content and format of this safety data sheet are in accordance with the current applicable legislation.

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