

Material Safety Data Sheet

UREA

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name	Urea
Catalog Numbers	736020060/736010100/736020100
Intended Use	This reagent is intended for the in vitro quantitative determination of urea concentration in human serum on both manual and automated systems.
Supplier	VITRO SCIENT
Address	19 Dr. Ahmed Zaki St., El Nozha El Gedida, Cairo, Egypt
Phone	00202 2621 8944
Fax	00202 2622 4468
Website	www.vitrosient.com
e-mail	info@vitrosient.com

2. HAZARD IDENTIFICATION

Not classified as hazardous according to the EU criteria

Hazard Classification: NON-HAZARDOUS SUBSTANCE, NON DANGEROUS GOODS.

Hazard Category: None allocated.

RISK PHRASES

None allocated.

SAFETY PHRASES

S23 Do not breathe vapour.

Poison Schedule: None allocated [Aust].

3. COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE NAME Proportion CAS Number

Contains Ketoglutaric acid 0.2% [CAS# 328-50-7], Sodium Azide [Poison] 1.0% [CAS# 26628-22-8]. DO NOT INGEST

All other ingredients determined not to be hazardous according to the EU criteria.

Material Safety Data Sheet

UREA

4. FIRST AID MEASURES

Swallowed:

If swallowed, and if more than 15 minutes from a hospital, **induce vomiting**, preferably using Ipecac Syrup APF.

Eye:

If product enters the eyes, flush with plenty of water for at least 15 minutes, ensuring eye lids are held open. If irritation

develops or persists, immediately transport to hospital or doctor.

Skin:

If product contacts the skin, remove any contaminated clothing and wash skin thoroughly with soap and water. If

irritation persists transport to hospital or doctor.

Inhaled:

Move victim to fresh air. Apply resuscitation if victim is not breathing.

First Aid Facilities:

Eye wash fountain, safety shower and normal wash room facilities.

Advice to Doctor: Treat symptomatically.

In case of poisoning, contact Poisons Information Centre

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Use extinguishing media suitable for surrounding fire situation.

Hazards From Combustion Products: Decomposes on heating emitting indeterminate decomposition products.

Precautions for Fire Fighters and Special Protective Equipment: If safe to do so, move undamaged containers from fire area. Fire fighters to wear Self-contained breathing apparatus (SCBA) in confined spaces, in oxygen deficient atmospheres or if exposed to products of decomposition. Full protective clothing is also recommended.

Hazchem Code: None allocated.

Flammability: This material is not a flammable or combustible liquid.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures

Keep unnecessary people away. Isolate hazard area and deny entry. If product spills onto floors it will represent a slip hazard, walk cautiously. Wear protective equipment to prevent skin and eye contact, as outlined under personal protection in this MSDS.

Methods and Materials for Containment and Cleanup Procedures

Dike area using with an absorbent such as diatomaceous earth - to prevent run off into drains and waterways. Throw further absorbent (diatomaceous earth or other inert material) on top of spill, then shovel up and seal in properly labeled containers for disposal.

Material Safety Data Sheet

UREA

7. HANDLING AND STORAGE

Precautions for Safe Handling

Provide adequate ventilation. Avoid generating vapours.

Conditions for Safe Storage

Store in a cool place and out of direct sunlight. Store away from sources of heat or ignition. Store away from oxidizing agents. Keep containers closed, when not using the product. When stored at 2 - 8 °C the reagent will be stable until the expiry date on the bottle and kit box labels. Store in original packaging as approved by manufacturer.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards

No exposure standards have been assigned by [NOHSC] for this product or any of the components.

Engineering Controls

Maintain adequate ventilation at all times. No other measures are required for this product.

Personal Protection Equipment

Gloves: Not normally required, however, if handling large quantities the use of natural rubber is recommended.

Eyes: Chemical glasses or face shield for spills.

Respiratory Protection: Avoid breathing of vapours. The use of a respirator is not normally required, however, if entering spaces where the airborne concentration of a contaminant is unknown then the use of a Self-contained breathing apparatus (SCBA) with positive pressure air supply complying with AS/NZS 1715 / 1716, or any other acceptable International Standard is recommended. Select and use respirators in accordance with AS/NZS 1715/1716.

9. PHYSICAL AND CHEMICAL PROPERTIES

Reagent 1

Appearance: Clear colorless liquid, odorless

Boiling Point: Not available

Freezing Point: Not available

Vapour Pressure: Not available

Specific Gravity: Not available

Flash Point: Not applicable

Flammability Limits: Not applicable

Solubility in Water: Not applicable

Other Properties

pH: 7.85

Vapor Density (Air = 1): Not available Not available

Evaporation Rate (BuAc = 1): Not available Not available

Volatile Organic Compounds: Not available Not available

Material Safety Data Sheet

UREA

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions of use.

Conditions to Avoid: Generation of vapours.

Incompatible Materials: Contains Sodium Azide , In contact with heavy metals , may form explosive metal azides.

Hazardous Decomposition Products: Not Available

Hazardous Reactions: Will not occur.

11. TOXICOLOGICAL INFORMATION

There is no toxicological information available for this product, the following is expected:

Oral LD50[rat]: > 5,000 mg/kg

Dermal LD50[rabbit]: > 5,000 mg/kg

Acute Health Effects

Swallowed: Drinking large quantities of this product, may cause irritation to mouth, throat and stomach with effects including mucous build up, irritation to the tongue and lips and pains in the stomach, which may lead to nausea, vomiting and diarrhoea.

Eye: May cause mild irritation to the eyes, with effects including: tearing and blurred vision. These effects are anticipated to be of a short acting nature and no long term injury is envisaged.

Skin: May cause mild irritation to the skin. Not anticipated to be absorbed through the skin.

Inhaled: If the product is heated, the vapours generated may cause irritation to the mouth, throat and upper respiratory system.

Chronic: Prolonged or repeated skin exposure may cause skin rashes in some susceptible individuals.

12. ECOLOGICAL INFORMATION

No ecological information available for this product. Do not dispose of large quantities to waterways, drains or sewers.

13. DISPOSAL CONSIDERATIONS

Refer to appropriate authority in your State. Normally suitable for disposal by approved waste disposal agent.

14. TRANSPORT INFORMATION

UN Number: None allocated.

Proper Shipping Name: NONE ALLOCATED.

Dangerous Goods Class: None allocated.

Subsidiary risk: None allocated.

Packing Group: None allocated.

Hazchem Code: None allocated.

Road and Rail Transport:

Material Safety Data Sheet

UREA

Not classified as a Dangerous Good according to the United Nations Recommendations for the Transport of Dangerous Goods and Globally Harmonized System for the Classification and Labeling of Chemicals.

Air Transport:

Not classified as a Dangerous Good according to the International Civil Aviation Organization (ICAO) and International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

Marine Transport:

Not classified as a Dangerous Good according to the International Maritime Organization Rules (Maritime Dangerous Goods Code - IMDG Code) for transport by sea.

15. REGULATORY INFORMATION

Poison Schedule: None allocated [Aust].

Inventory Status:

Australia [AICS] Y

United States [TSCA] Y

Canada [DSL] Y

Europe [EINECS/ELINCS] Y

Y = all ingredients are on the inventory.

16. OTHER INFORMATION

Issue date: June, 6

Reasons for Update

1. Alignment with the 2nd Edition of National Code of Practice for the Preparation of Material Safety Data Sheets [NOHSC:2001(2003)].
2. Changes and /or addition made to all sections.

Key Legend Information

NOHSC - National Occupational Health & Safety Commission [Aust]

SUSDP - Standard for the Uniform Scheduling of Drugs and Poisons {Poison Schedule} [Aust]

TWA - Time Weighted Average [Int]

STEL - Short Term Exposure Limit [Int]

AICS - Australian Inventory of Chemical Substances [Aust]

EPA - Environmental Protection Agency [Int]

NIOSH - National Institute for Occupational Safety and Health [US]

AS/NZS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. [Aust]

AS/NZS 1716 - Respiratory Protective Devices. [Aust]

Hazchem Code - Fire Fighter Designation [Aust]

IATA - International Aviation Transport Authority [Int]

ICAO - International Civil Aviation Organization [Int]

IMO - International Maritime Organisation. [Int]

Material Safety Data Sheet

UREA

IMDG - International Maritime Dangerous Goods [Int]

United Nations Recommendations for the Transport of Dangerous Goods and Globally Harmonized System for the Classification and Labeling of Chemicals. [Int]

EU - European Union

TSCA - Toxic Substances Control Act [US]

DSL - Domestic Chemical List [Can]

EINECS - European Inventory of Existing Commercial Chemical Substances [Int]

ELINCS - Existing List of Notified Chemical Substances. [Int]

[Aust] = Australia

[Int] = International

[US] = United States of America

[Can] = Canada

Principal References

Information supplied by manufacturer, reference sources including the public domain.

Disclaimer

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

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END OF MSDS