

SAFETY DATA SHEET**1. Identification of Substance**

Product Name: 32.5% Urea Solution

Supplier: J.E.Morten Ltd
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2. Composition/information on ingredients

Ingredients

Ingredients	CAS No.	EC No.	Reach	Classification	%
Water	7732-18-5	231-791-2		Not Classified	67.5
Urea	57-13-6	200-315-5	01-2119463277-33-XXXX	Not Classified	32.5

3. Hazard identification

The preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.

4. First aid measures

Ingestion: If large quantities of this material have been swallowed, a doctor should be called immediately. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

Skin Contact: Avoid prolonged or repeated skin contact. After contact with skin wash thoroughly with plenty of soap and water. If irritation develops, seek medical advice.

Eye Contact: If in contact with eyes, rinse immediately with plenty of water. If irritation occurs, seek medical attention.

5. Fire fighting measuresExtinguishing media: In case of fire, use water spray, foam, dry chemical or CO₂.

Special exposure hazard: Fire fighters should wear self-contained positive pressure breathing apparatus (SCBA) and full turnout gear.

Hazardous thermal decomposition product: These products are carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂ etc). ammonia (NH₃).

6. Accidental release measures

Personal precautions: Use suitable protective equipment and follow the fire-fighting procedures

Environmental precautions and clean-up methods: Avoid contact of spilled material and runoff with soil and water courses.

Absorb with dry earth, sand or other non-combustible material. Use a tool to scoop up solid or absorbed material and place into an appropriately labelled waste container. Avoid creating dusty conditions and prevent wind dispersal. Keep out of waterways.

7. Handling and Storage

Handling: While handling, wear chemical resistant gloves and safety goggles, and ensure eye wash and wash down facilities are located close to the working area.

Storage: Store below 30° C. Store in a segregated, approved and labelled area. The tank/container should be within a bund able to take the whole tank/container volume + 20%. Keep the container closed.

8. Exposure controls/personal protection

Respiratory protection: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hand Protection: Chemical resistant, impervious gloves complying with an approved standard should be worn at all times when handling this product if a risk assessment indicates this is necessary. >8 hour(s) (breakthrough time): butyl rubber, natural rubber (latex), nitrile rubber.

Eye Protection: Use safety approved chemical resistant goggles or face shield.

Skin Protection: A risk assessment should be conducted to assess the protective equipment required for the body based on the task being conducted.

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure eyewash and washdown facilities are located close to the working environment.

9. Physical and chemical properties

Physical state: Clear Liquid

Colour: Colourless

Odour: Ammoniacal

PH: 9.8

Boiling Point: 100°C (212°F)

Freezing Point: -10.5°C (13.1°F)

Vapour Pressure: 6.4 kPa (48 mm Hg) @40°C

Density: 1.09 g/cm @20°C

10. Stability and reactivity

Stability:	Stable under recommended storage and handling conditions.
Conditions to avoid:	Urea reacts with calcium hypochlorite or sodium hypochlorite to form the explosive nitrogen trichloride.
Materials to avoid:	Highly reactive or incompatible with the following materials: oxidizing materials, acids and alkalis.
Hazardous decomposition products:	These products are carbon oxides (CO, CO ₂), nitrogen oxides (NO, NO ₂ etc.), ammonia (NH ₃).

11. Toxicological information**Potential acute health effects**

Adverse health effects are considered unlikely, when the product is used according to directions.

12. Ecological information

Ingredient	Species	Period	Result
Urea	Daphnia magna EC50	48 hours	3910 mg/L
	Poecilla reticulata LC50	96 hours	17500 mg/L

Mobility:	Soluble in water
Adverse effects:	The product is not expected to harm the environment when used properly.
Bio activity:	This product does not show any bio accumulation activity

13. Disposal considerations

Method of disposal:	Empty containers may contain a small amount of product; do not dispose into drains. Dispose of in a safe way in accordance with local and national law.
Hazardous waste:	At the time of print this product is not regarded as a hazardous waste, as defined by EU Directive 91/689/EEC.

14. Transport information

Hazard:	Not classified as a hazardous material with UN Orange Book and international transport codes (ADR, RID, AND & IMDG)
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15. Regulatory Information

<u>EU Regulations</u> Risk phrases:	This product is not classified according to EU legislation.
Product use:	Industrial application

16. General Notice

Date of issue: 23/01/2023

The above information is supplied as guidance only; no liability is accepted by J.E.Morten Ltd for the accuracy of this information or any loss or damage resulting from the use of this information. Final determination of suitability and safety of this product is the sole responsibility of the user.