



SAFETY DATA SHEET AUS40

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

1.1. Product identifier

Product name	Marine 40% Urea Solution / AUS40
Product number	AUS40

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

Identified uses	Used to reduce NOx emissions
-----------------	------------------------------

1.3. Details of the supplier of the safety data sheet

Supplier	Fluechem The Old Smithy St. Hildas Street Sherburn YO17 8PG Tel: + 44 (0) 20 800 35 982
Manufacturer	I POTANE HEAVY CHEMICALS Gibraltar Tel: + 44 (0) 20 800 35 982

1.4. Emergency telephone number

Emergency telephone	+ 44 (0) 20 800 35 982
---------------------	------------------------



SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards	Not Classified
Health hazards	Not Classified
Environmental hazards	Not Classified
Human health	See Section 11 for additional information on health hazards.

2.2. Label elements

Hazard statements	NC Not Classified
Precautionary statements	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children.

2.3. Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

SECTION 3: Composition/information on ingredients

3.1. Mixtures

Composition comments	This product does not contain any hazardous ingredients, or ingredients with national workplace exposure limits.
----------------------	--



SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Get medical attention if any discomfort continues. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Effects may be delayed. Keep affected person under observation.
Inhalation	Unlikely route of exposure as the product does not contain volatile substances.
Ingestion	Get medical attention if any discomfort continues. Rinse mouth thoroughly with water. Give plenty of water to drink.
Skin contact	Rinse immediately with plenty of water. Remove contaminated clothing. Get medical attention if any discomfort continues.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Do not rub eye. Get medical attention if any discomfort continues.

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

General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure. Effects may be delayed. Keep the affected person under
---------------------	--



	observation.
Inhalation	No specific symptoms known.
Ingestion	May cause discomfort if swallowed. May cause stomach pain or vomiting.
Skin contact	Prolonged contact may cause redness, irritation and dry skin.
Eye contact	May cause temporary eye irritation.

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

Notes for the doctor	No specific recommendations. If in doubt, get medical attention promptly
----------------------	--

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Extinguish with the following media: Foam, carbon dioxide or dry powder. Water. Use fire extinguishing media suitable for the surrounding fire.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire

5.2. Special hazards arising from the substance or mixture

Specific hazards	Not relevant. No unusual fire or explosion hazards noted
Hazardous combustion products	No known hazardous decomposition products.

5.3. Advice for firefighters

Protective actions during firefighting	firefighting Not relevant.
--	----------------------------



Special protective equipment for firefighters

Leave the danger zone immediately.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

For personal protection, see Section 8. In case of spills, beware of slippery floors and surfaces.

6.2. Environmental precautions

Environmental precautions

Avoid discharge to the aquatic environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

No specific clean-up procedure recommended.

6.4. Reference to other sections

Reference to other sections

Collect and dispose of spillage as indicated in Section 13. For personal protection, see Section 8.



SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions

Read and follow the manufacturer's recommendations. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Avoid contact with eyes. Avoid eating, drinking and smoking when using the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions

Keep containers upright. Store in tightly-closed, original container.

7.3. Specific end use(s)

Specific end use(s)

The identified uses for this product are detailed in Section 1.2



SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits	No exposure limits known for ingredient(s).
Ingredient comments	No exposure limits known for ingredient(s).

8.2. Exposure controls

Protective equipment



Appropriate engineering controls	No specific ventilation requirements. This product must not be handled in a confined space without adequate ventilation.
Eye/face protection	Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses.
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.



Other skin and body protection	Wear appropriate clothing to prevent repeated or prolonged skin contact.
Hygiene measures	Provide eyewash station and safety shower. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.
Respiratory protection	Respiratory protection not required.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Clear liquid.
Colour	Colourless.
Odour	No characteristic odour.
Odour threshold	Not determined.
pH	pH (concentrated solution): 9.0 – 10.0
Melting point	135–137°C
Initial boiling point and range	100°C @ 1.013 hPa
Flash point	Not determined.
Evaporation rate	Not determined.
Evaporation factor	Not determined.
Upper/lower flammability or explosive limits	Not determined.
Vapour pressure	Not determined.
Vapour density	Not determined.
Relative density	1.11 @ 20°C
Solubility(ies)	Soluble in water
Partition coefficient	Not determined.
Auto-ignition temperature	Not determined.



Decomposition Temperature	Not determined.
Viscosity	1.4 mPa s @ 25°C
Oxidising properties	Not available.
Freezing Temperature	-1°C

9.2. Other information

Other information	None.
-------------------	-------

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	There are no known reactivity hazards associated with this product.
------------	---

10.2. Chemical stability

Stability	No particular stability concerns.
-----------	-----------------------------------

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Not applicable.
------------------------------------	-----------------

10.4. Conditions to avoid

Conditions to avoid	Not relevant.
---------------------	---------------

10.5. Incompatible materials

Materials to avoid	Oxidising agents. Acids. Alkalis.
--------------------	-----------------------------------

10.6. Hazardous decomposition products



Hazardous decomposition products

Does not decompose when used and stored as recommended.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects	No information available.
Inhalation	No specific health hazards known.
Ingestion	May cause discomfort if swallowed.
Skin contact	No specific health hazards known.
Eye contact	May cause temporary eye irritation.
Acute and chronic health hazards	This chemical can be hazardous when inhaled and/or touched.

SECTION 12: Ecological Information

Ecotoxicity	The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.
-------------	--

12.1. Toxicity



Acute toxicity - fish LC₅₀, 96 hours: 9100 mg/l, Algae

Acute toxicity - aquatic invertebrates Not available.

12.2. Persistence and degradability

Persistence and degradability There are no data on the degradability of this product.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not determined.

12.4. Mobility in soil

Mobility The product is soluble in water.

Adsorption/desorption coefficient Not available.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Other adverse effects Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Waste should be treated as controlled waste.



Disposal methods

Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Confirm disposal procedures with environmental engineer and local regulations. Following dilution, discharge to the sewer with plenty of water may be permitted.

SECTION 14: Transport information

General

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous
substance/marine pollutant

No.

14.6. Special precautions for user



Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

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

EU legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision Date

03.01.2020

Version

1.1

Fluechem

The logo for Fluechem features the company name in a sans-serif font. The word "Flue" is in a vibrant blue, while "chem" is in a light grey. Below the text is a stylized, wavy line that transitions from a teal color on the left to a deep blue on the right.