



ABN: 81 008 668 371

# MATERIAL SAFETY DATA SHEET

## Spurt-N

### Section 1 – Identification of the Material and Supplier

Product Name

Spurt-N

Other names

Liquid fertiliser, UAN, urea ammonium nitrate solution, CSBP Product Code: R01

Recommended use

Liquid fertiliser

Company name

CSBP Limited

Address

Kwinana Beach Road, KWINANA

State

Western Australia

Postcode

6167

Telephone number

(08) 9411 8777 (Australia), +61 8 9411 8777 (Overseas)

Emergency telephone number

1800 093 333 (Australia), +61 8 9411 8444

### Section 2 – Hazard Identification

Hazard Classification, including a statement of overall hazardous nature

**HAZARDOUS SUBSTANCE.**

Spurt-N is not classified as hazardous according to Safe Work Australia criteria.

**DANGEROUS GOODS.**

Spurt-N is not classified as a dangerous good according to the ADG Code.

### Section 3 – Composition/Information on Ingredients

Chemical identity of ingredients

Ammonium nitrate

Urea

Water

Proportion of ingredients

40-50%

30-40%

Less than 25%

CAS Number for ingredients

6484-52-2

57-13-6

7732-18-5

### Section 4 – First Aid Measures

**First Aid Facilities**

Whenever fertilisers are in regular use ensure drinking water and eyewash facilities are available.

**FIRST AID PROCEDURES FOR DEALING WITH THIS PRODUCT AND EXPOSURE TO IT**

**1. Swallowed**

If person is conscious, rinse mouth thoroughly with water immediately, and give water or milk to drink. DO NOT induce vomiting. Seek medical attention, if more than a small quantity has been swallowed, or there is pain or difficulty with swallowing.

**2. Eyes**

Flush gently with running water for at least 15 minutes lifting lower and upper eyelids occasionally. Seek medical attention if irritation develops.

**3. Skin**

Gently flush affected areas with water. Seek medical attention if irritation develops. Remove all contaminated clothing and launder before re-use.



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### Continuation of Section 4 – First Aid Measures

#### 4. Inhalation

If over exposure occurs remove affected person to a well ventilated area. Keep warm and at rest. In emergency situations, if breathing is difficult give oxygen. If the affected person suffers cardiac arrest commence cardio-pulmonary resuscitation immediately. Seek urgent medical attention.

#### ADVICE TO DOCTOR.

This product contains nitrates, which may be reduced to nitrites by intestinal bacteria. Nitrites may affect the blood (methaemoglobinaemia) and blood vessels (vasodilatation and a fall in blood pressure). Effects peak within 30 minutes. Clinical signs of cyanosis appear before other symptoms because of the dark pigmentation of methaemoglobin. Institute monitoring, especially in patients with coronary, artery, or pulmonary disease.

### Section 5 – Fire Fighting Measures

#### Product flammability

Non flammable and does not support combustion.

#### Suitable extinguishing media

Extinguish fires with a large amount of water.

#### Hazard from combustion products

This liquid fertiliser is not readily combustible under normal applications, and is not considered a fire risk. However, avoid heating this product in a confined space. Avoid prolonged pumping against a shut, or restricted valve – the heating may cause an explosion of the line, or pump. Residues from evaporation of water in this product may contain ammonium nitrate which is an oxidizing agent.

Fire will cause this liquid fertiliser to decompose, giving off acrid smoke and toxic and flammable fumes of nitrogen oxides, cyanuric acid, ammonia, carbon dioxide and carbon monoxide.

#### Hazchem Code

None allocated.

### Section 6 – Accidental Release Measures

#### Methods and Materials for containment and clean up

Any spillage should be contained promptly with sand, earth or vermiculite. Recover contained product and recycle. Absorb remaining product in sand, earth or vermiculite.

Wash down area and prevent run-off into drains, sewers, or waterways.

### Section 7 – Handling and Storage

#### Precautions for safe handling

Keep away from copper, zinc, or their alloys, aluminum, or its alloy, mild steel, concrete, foodstuffs and empty foodstuff containers when transporting.

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

Store in a dedicated clean tank. Avoid contamination with any chemical. Avoid evaporation of water from this product.

Store away from incompatible materials which include strong acids, hypochlorites, bleach, pool chlorine, or chlorine based cleaning products. Alkalis will accelerate the evolution of toxic ammonia gas.



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### Section 8 – Exposure Controls/Personal Protection

**National exposure standards**

None allocated

**Engineering controls**

Use in well ventilated areas. Avoid high mist concentrations.

**Personal protective equipment**

Wear rubber or PVC gloves to prevent skin contact. Where mist is a problem use a P2 type canister Respirator. Wear PVC jacket and long trousers to prevent contact. Wear chemical safety glasses to prevent eye contact.

### Section 9 – Physical and Chemical Properties

**Appearance (colour, physical form, shape)**

Colourless liquid.

**Odour**

Ammoniacal.

**pH of 10% solution**

6.5 - 7.5.

**Vapour pressure**

Does not exert significant vapour pressure.

**Vapour density**

Not available.

**Boiling point/range**

May decompose over 117°C.

**Freezing/melting point**

Not available.

**Evaporation rate**

Not available.

**Solubility**

Miscible in all proportions.

**Specific Gravity**

1.25 – 1.35.

**% Volatiles**

Not available.

**Flammability**

Not Flammable.

**Flash point and method of detecting flash point**

Not relevant, does not give off flammable vapours.

**Upper and lower flammable (explosive) limits in air**

Not relevant.

**Ignition temperature**

Not available.



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### Section 10 – Stability and Reactivity

#### Reactivity

Reactive with mineral acids, chlorine, oxidizing agents and alkalis.

This liquid fertiliser is not compatible with copper, zinc, or their alloys (i.e., bronze, brass, galvanised metals, etc.), aluminum, mild steel, and concrete. Do not use the above materials of construction in handling systems, or storage containers for this product.

#### Decomposition products

Avoid storage and contamination with chlorine bleaches, pool chlorine and hypochlorites as a reaction, with the formation of explosive nitrogen trichloride, may occur.

Avoid mixing this product with mineral acids, e.g., phosphoric acid, sulfuric acid, nitric acid, and hydrochloric acid, as this can result in the formation of a potentially explosive precipitate.

### Section 11 – Toxicological Information

#### HEALTH EFFECTS

Moderate toxicity if swallowed. Use safe work practices to avoid eye or skin contact and mist inhalation. Prolonged, or repeated exposure, may cause drying of the skin with cracking and irritation that may lead to dermatitis.

#### Inhalation:

High mist concentration of air-borne material may cause irritation to the nose and upper respiratory tract; symptoms may include coughing and sore throat. Prolonged exposure may be harmful.

#### Skin:

Prolonged contact may cause some irritation, including redness and itching.

#### Eye:

May cause irritation, redness and pain following contact.

#### Swallowed:

Presents moderate toxicity, unless large amounts are ingested. Large amounts give rise to gastro-intestinal irritation, with symptoms such as nausea, vomiting and diarrhea. Large amounts may also cause dilation of blood vessels by direct smooth muscle relaxation and methaemoglobinaemia (excessive conversion of haemoglobin to methaemoglobin, which is incapable of binding and carrying oxygen – methaemoglobin is formed when the iron in the hem molecule is oxidised from the ferrous to the ferric state). Symptoms include dizziness, abdominal pain, vomiting, bloody diarrhea, weakness, convulsions and collapse.

#### TOXICITY DATA

Ammonium nitrate (6484-52-2)

LD50 (Ingestion): 2217 mg/kg (rat)

Urea (57-13-6)

LDLo (Intravenous): 4800 mg/kg (rabbit)

LDLo (Intraperitoneal): 6608 mg/kg (mouse)

LD50 (Intraperitoneal): > 5000 mg/kg (rat)

LDLo (Subcutaneous): 3000 mg/kg (rabbit)

LD50 (Ingestion): 8471 mg/kg (rat)

LD50 (Intravenous): 4600 mg/kg (mouse)

LD50 (Subcutaneous): 8200 mg/kg (rat)

### Section 12 – Ecological Information

#### Environment

It is not anticipated to cause any adverse effects to plants or animals.



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### Section 13 – Disposal Considerations

#### Disposal methods and containers

Dispose of on a farm, or authorised waste facility in accordance with statutory requirements.  
Contact the manufacturer if additional information is required.

#### Legislation

Dispose of in accordance with relevant local legislation.

### Section 14 – Transport Information

#### UN Number

None allocated.

#### UN Proper shipping name

None allocated.

#### Class and subsidiary risk

None allocated.

#### Packing group

None allocated.

#### EPG

None allocated.

#### Hazchem code

None allocated.

### Section 15 – Regulatory Information

#### Australian regulatory information

A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

All chemicals listed on the Australian Inventory of Chemical Substances (AICS).

### Section 16 – Other Information

#### Key / legend to abbreviations and acronyms used in the MSDS

NOHSC	National Occupational Health and Safety Commission
SUSDP	Standard for the Uniform Scheduling of Drugs and Poisons
ACGIH	American Conference of Government Industrial Hygienists
ES-TWA	Exposure Standard – Time weighted average
ES-STEL	Exposure Standard – Short term exposure level
ES-Peak	Exposure Standard – Peak level
LD Lo	The lowest dose in an animal study in which lethality occurred
LD50	Lethal dose 50. The single dose of a substance that causes the death of 50% of an animal population from exposure to the substance by any route other than inhalation
TD Lo	The lowest dose of a substance known to have produced signs of toxicity
TC Lo	Lowest published toxic concentration
LC Lo	Lowest published lethal concentration
LC 50	Lethal concentration that kills 50% of an animal population within a specified time



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### Continuation of Section 16 – Other Information

t/m <sup>3</sup>	Tonnes per cubic metre
mg/m <sup>3</sup>	Milligrams per cubic metre
mg/kg	Milligrams per kilogram
pH	relates to hydrogen ion concentration - this value will relate to a scale of 0 - 14, where 0 is highly acidic and 14 is highly alkaline

### Important Notes

1. To the best of our knowledge this document complies with the National Code of Practice for the Preparation of Material Safety Data Sheets 2<sup>nd</sup> Edition [NOHSC:2011 (2003)].
2. This material safety data sheet 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 material safety data sheet 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.
3. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact the Safety and Emergency Services Department, CSBP Limited on (08) 9411 8777 (Australia), +61 8 9411 8777 (Overseas).
4. Our responsibility for products sold, is subject to our terms and conditions, a copy of which is sent to our customers, and is also available on request.
5. CSBP reserves the right to make change to material safety data sheets without notice.