

Safety Data Sheet
according to WHS Regulations

Date of issue: 11.12.2025

Revision: 11.12.2025

1 Identification

Product name: Awaken®

Relevant identified uses of the substance or mixture and uses advised against fertiliser

Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Nutrien Ag Solutions Limited
Level 5, Building A; 26 Talavera Road
Macquarie Park NSW 2113
Australia

Telephone: +61 (02) 9889 5400

Emergency telephone number: 1800 033 111

2 Hazard(s) Identification

Classification of the substance or mixture

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition), IATA and IMDG/IMSBC.



GHS07

Eye damage/irritation – Category 2A H319 Causes serious eye irritation.

Aquatic Acute 3

H402 Harmful to aquatic life.

Aquatic Chronic 3

H412 Harmful to aquatic life with long lasting effects.

Signal word Warning

Hazard statements

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P264 Wash thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear 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.

P337+P313 If eye irritation persists: Get medical advice/attention.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

3 Composition and Information on Ingredients

Chemical characterisation: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Hazardous components:		
6484-52-2	ammonium nitrate	10–20%
	⚠ Eye damage/irritation – Category 2A, H319	
557-34-6	zinc acetate	5–10%
	⚠ Eye damage/irritation – Category 1, H318; ⚠ Aquatic Chronic 2, H411; ⚠ Acute toxicity - oral – Category 4, H302; Aquatic Acute 2, H401	

(Contd. on page 2)

Safety Data Sheet
according to WHS Regulations

Date of issue: 11.12.2025

Revision: 11.12.2025

Product name: Awaken®

(Contd. of page 1)

4 First Aid Measures

Following inhalation: Supply fresh air; consult doctor in case of complaints.

Following skin contact:

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Get medical attention if skin irritation occurs and persists.

Following eye contact:

Remove contact lenses, if present and easy to do. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. Get medical attention.

Following ingestion:

Keep at rest. Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Seek medical attention if feeling unwell.

Most important symptoms and effects, both acute and delayed

Causes serious eye irritation. May cause skin irritation. Inhalation of mist may cause respiratory irritation. May cause gastrointestinal irritation, nausea, diarrhoea and vomiting.

5 Fire Fighting Measures

Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: Water with full jet

Special hazards arising from the substance or mixture

Product is not flammable.

Hazardous combustion products include oxides of carbon, oxides of nitrogen, and ammonia.

Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Ventilate affected area. Prevent skin contact. Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. Collection and use of expertise.

Environmental precautions:

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

Methods and material for containment and cleaning up:

Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material. Collect the spilled material and place into a suitable container for disposal. Wash area after spill.

7 Handling and Storage

Precautions for safe handling

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of mist or spray. Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry and well-ventilated area. Keep container tightly closed. Keep away from strong oxidising agents, strong bases and strong acids.

While ammonium nitrate solution as produced is not classified as an oxidiser, it is important to prevent conditions during handling and storage which may result in concentration of the product which may encourage it to behave as an oxidiser.

(Contd. on page 3)

Safety Data Sheet
according to WHS Regulations

Date of issue: 11.12.2025

Revision: 11.12.2025

Product name: Awaken®

(Contd. of page 2)

8 Exposure controls and personal protection

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Exposure controls General ventilation.

Respiratory protection:

Respiratory protection is not required under normal use conditions.

In case of inadequate ventilation wear respiratory protection. Filter P2 according to AS/NZS1716 standards.

Protection of hands:

Wear protective gloves. Recommended material: neoprene, nitrile rubber. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Wash hands and face thoroughly after handling.

Eye protection:

Wear eye/face protection. Use safety goggle with side protection. Use protective eyewear to guard against splash of liquids.

Body protection: Light weight protective clothing

9 Physical and Chemical Properties

Appearance:

Form:	Liquid
Colour:	Dark green
Odour:	Sweetish
pH-value:	6.0 – 6.6
Melting point/freezing point:	<0 °C
Initial boiling point and boiling range:	approx. 100 °C
Flash point:	Does not flash up to boiling
Flammability	Product is not flammable
Decomposition temperature:	Not determined
Density:	1.24 g/cm³
Solubility in / Miscibility with water	Fully miscible

10 Stability and Reactivity

Reactivity No further relevant information available.

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Possibility of hazardous reactions No dangerous reactions known.

Conditions to avoid

Keep away from incompatible materials. Brass, copper, and galvanised metals may be subject to mild corrosion from prolonged or repeated contact with this product.

Incompatible materials: Strong oxidising agents, strong acids and strong bases.

Hazardous decomposition products: Oxides of carbon, oxides of nitrogen, and ammonia.

11 Toxicological Information

LD/LC50 values relevant for classification:

6484-52-2 ammonium nitrate		
Oral	LD50	2,217 mg/kg (rat)
557-34-6 zinc acetate		
Oral	LD50	663 mg/kg (rat) (OECD Test Guideline 423)

Acute toxicity Based on available data, the classification criteria are not met.

(Contd. on page 4)

Safety Data Sheet
according to WHS Regulations

Date of issue: 11.12.2025

Revision: 11.12.2025

Product name: Awaken®

(Contd. of page 3)

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/irritation Causes serious eye irritation.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT-single exposure Based on available data, the classification criteria are not met.

STOT-repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

12 Ecological Information

Toxicity Harmful to fish

Aquatic toxicity:	
557-34-6 zinc acetate	
EC50	2.1 mg/l /72h (algae) (OECD Test Guideline 201) 3.72 mg/l /48h (daphnia) (OECD Test Guideline 202)
LC50 (static)	2.46 mg/l /96h (pimephales promelas (fathead minnow)) (OECD Test Guideline 203)

Persistence and degradability No further relevant information available.

Bioaccumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0,1\%$.

Other adverse effects No further relevant information available.

13 Disposal considerations

Waste treatment methods

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Avoid release to the environment. Refer to special instructions.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

14 Transport information

UN-Number

ADG, IMDG, IATA not regulated

UN proper shipping name

ADG, IMDG, IATA not regulated

Transport hazard class(es)

ADG, IMDG, IATA not regulated

Packing group

ADG, IMDG, IATA not regulated

15 Regulatory information

Australian Inventory of Industrial Chemicals All ingredients are listed or exempted from listing.

(Contd. on page 5)

Safety Data Sheet
according to WHS Regulations

Date of issue: 11.12.2025

Revision: 11.12.2025

Product name: Awaken®

(Contd. of page 4)

Standard for the Uniform Scheduling of Medicines and Poisons (Poison Standard) Not scheduled.

Australian Pesticides and Veterinary Medicines Authority Not regulated.

16 Other information

Relevant phrases

H302 Harmful if swallowed.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H401 Toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.

Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Acute toxicity - oral – Category 4: Acute toxicity – Category 4
Eye damage/irritation – Category 1: Serious eye damage/eye irritation – Category 1
Eye damage/irritation – Category 2A: Serious eye damage/eye irritation – Category 2A
Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard – Category 2
Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard – Category 3
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

Sources

Safe Work Australia's Code of Practice for Labelling of Workplace Hazardous Chemicals (under WHS Regulations).
Australian Dangerous Goods Code.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product. The information contained in this safety data sheet is provided in good faith and is believed to be accurate at the date of issuance. Nutrien Ag Solutions makes no representation of the accuracy or comprehensiveness of the information and to the full extent allowed by law excludes all liability for any loss or damage related to the supply or use of the information in this material safety data sheet.