

TERRAMAR™ 0-0-4

Version number: 1.0

Date of compilation: 20.02.2025

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

1.1 Product identifier

Trade name **TERRAMAR™ 0-0-4**

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

Relevant identified uses Fertiliser

1.3 Details of the supplier of the safety data sheet

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

Telephone: (02) 9889 5400
Emergency telephone number: 1800 033 111

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Not 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.

2.2 Label elements

not required

SECTION 3: Composition/information on ingredients

Mixture of substances as listed below.

Description of the mixture

Mixture of substances listed below with ingredients not classified as hazardous.

Name of substance	CAS No	Wt%	Classification acc. to GHS
Seaweed extract		≥ 60	
Potassium acetate	127-08-2	0.1 – 10	

SECTION 4: First aid measures

4.1 Description of first aid measures

Following inhalation

Provide fresh air. In case of respiratory tract irritation, consult a physician.

Following skin contact

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. If skin irritation occurs: Get medical advice/attention.

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. If eye irritation persists: Get medical advice/attention.

Following ingestion

Rinse mouth immediately and drink plenty of water. Keep at rest. Do NOT induce vomiting. Seek medical attention.

TERRAMAR™ 0-0-4

Version number: 1.0

Date of compilation: 20.02.2025

4.2 Most important symptoms and effects, both acute and delayed

May cause eye irritation, redness and tearing. Skin contact may cause mild irritation. Inhalation of mist may cause respiratory irritation. May cause gastrointestinal irritation, nausea, diarrhoea and vomiting.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, Alcohol resistant foam, BC-powder, Carbon dioxide (CO₂)

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

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

5.3 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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

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.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Bunding, Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use only in well-ventilated areas. Handle and open container with care.

Advice on general occupational hygiene

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.

TERRAMAR™ 0-0-4

Version number: 1.0

Date of compilation: 20.02.2025

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry and well-ventilated area. Keep container tightly closed. Protect from sunlight. Protect from freezing.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)

This information is not available

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

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

Skin protection

- Hand protection

Wear protective gloves. Recommended material: PVC or 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.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Use an approved P2 particles respirator according to AS/NZS1716 standards.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	yellow to brown
Odour	earthy
Boiling point	not determined
Flammability	non-combustible
Flash point	does not flash up to boiling point
Decomposition temperature	no data available
pH (value)	7 – 8
Density	1.03 g/cm ³
Water solubility	miscible in any proportion

SECTION 10: Stability and reactivity

10.1 Chemical stability

Stable under normal conditions of use.

TERRAMAR™ 0-0-4

Version number: 1.0

Date of compilation: 20.02.2025

10.2 Possibility of hazardous reactions

No known hazardous reactions.

10.3 Conditions to avoid

UV-radiation/sunlight. Do not store below 10°C.

10.4 Incompatible materials

There is no additional information.

10.5 Hazardous decomposition products

Oxides of carbon, oxides of nitrogen and oxides of sulfur.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Classification acc. to GHS

This mixture does not meet the criteria for classification.

Acute toxicity

Shall not be classified as acutely toxic.

Acute toxicity of components					
Name of substance	CAS No	Exposure route	Endpoint	Value	Species
Potassium acetate	127-08-2	inhalation: dust/mist	LC50	>5.6 mg/l/4h	rat
Potassium acetate	127-08-2	dermal	LD50	>20,000 mg/kg	rabbit

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

SECTION 12: Ecological information

12.1 Toxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

TERRAMAR™ 0-0-4

Version number: 1.0

Date of compilation: 20.02.2025

Aquatic toxicity (acute) of components					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Potassium acetate	127-08-2	LC50	>992.7 mg/l	fish	96 h
Potassium acetate	127-08-2	EC50	>919 mg/l	aquatic invertebrates	24 h
Potassium acetate	127-08-2	ErC50	>1,000 mg/l	algae	72 h

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Bioaccumulation is not expected to occur.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions.

Waste treatment of containers/packagings

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

UN number	not subject to transport regulations
UN proper shipping name	not relevant
Transport hazard class(es)	none
Packing group	not assigned

SECTION 15: Regulatory information

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

Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Standard

Not a scheduled poison.

Australian Inventory of Industrial Chemicals

All ingredients are listed or exempt from listing.

TERRAMAR™ 0-0-4

Version number: 1.0

Date of compilation: 20.02.2025

SECTION 16: Other information

Abbreviations and acronyms

CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
PBT	Persistent, Bioaccumulative and Toxic
vPvB	very Persistent and very Bioaccumulative

Key literature references and sources for data

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.