



SAFETY DATA SHEET
Nitrosol Liquid Seaweed

SECTION 1 : CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name: Nitrosol Liquid Seaweed
Proper Shipping Name: Liquid Seaweed Fertiliser
Product Use: Liquid fertiliser for home and garden use
Manufacturer: Nitrosol Limited, 63b Allens Road, East Tamaki, 2013, Auckland
Telephone: +64 9 571 7171
24 H Emergency Contact: 0800 243 622 (24 Hours)
Website: www.nitrosol.co.nz
Email: info@nitrosol.co.nz

SECTION 2 : HAZARDS IDENTIFICATION

This substance is non-hazardous according to the EPA Hazardous Substances (Classification) Environmental protection Authority (New Zealand)
Group Standard 2017 HSR002571

HSNO classification

Health Hazards None identified
Environmental Hazards None identified

Prevention Statements:

P102 Keep out of Reach of Children
P103 Read Label before use

Response Statements:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water
P332 + P313 If Skin irritation occurs: get medical advice/attention

Disposal Statement:

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

SECTION 3 : COMPOSITION

Compound	CAS Number	Proportion
Potassium Hydroxide	1310.58.3	<1%
Non hazardous Ingredients		Balance

SECTION 4 : FIRST AID MEASURES

Eyes: Flush with cold water immediately for at least 15 minutes, lifting upper and lower eye lids. Seek Medical assistance

Skin: Wash skin well with soap and water. Remove & wash Contaminated clothing before re-use. Seek Medical attention if redness, blistering or irritation persists.

Ingestion: Contact a doctor or Poisons should individual feel unwell. Have product container label available on hand.
Information Centre (0800 POISON - 0800 764 766).
Do not induce Vomiting unless medical attention is delayed more than one Hour. Never administer anything orally to an unconscious person.

Inhalation: Clear airways and remove to fresh air. If not breathing give artificial respiration.
If breathing is difficult give oxygen. Seek medical attention.

Advice to Doctor: Treat symptomatically based on judgement of doctor and individual reactions of patient.

Medical Conditions Exposure Persons with pre-existing health conditions including skin disorders, eye problems or respiratory function may be more susceptible to the effects of the substance.

SECTION 5 : FIRE FIGHTING MEASURES

General Measures Not considered to be a fire hazard. Clear fire of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move fire exposed containers from fire area if it can be done without risk.

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Flammability	The Product itself is not considered flammable
Extinguishing Media	Water spray/fog, dry chemical, foam, CO2
Fire & Explosion Hazards	Not a fire or explosion hazard
Hazardous Products of Combustion	May produce smoke
Flash Point	No Data Available
Flammable Limits	Not flammable.
Fire Fighting	Wear protective clothing and self-contained breathing apparatus. Collect contaminated firefighting water separately, must not be discharged into the drains.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Spills: Use appropriate protective clothing and equipment.

Large spills: Dike and pump as much as possible to a salvage container. Absorb Remaining liquid and any smaller spills with clay, sand or other absorbent material and sweep to a waste container. Cover the spill area with water and absorb residue. Spills may be slippery and should be cleaned up promptly. Prevent runoff reaching drains.

SECTION 7 : HANDLING AND STORAGE

Handling	Keep out of reach of children. Ensure compatibility with other products if to be sprayed together by doing small test premix. Do not handle until all safety precautions have been considered and understood. Wear protective PPE as described in Section 8. Wash hands thoroughly after handling. Avoid release down drains or any waterways.
Storage	Store away from goods and animal feed. Keep container tightly closed. Always keep in containers that correspond to the material of the original container.

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Take care of instructions on label. Store in room at temperatures between 5 °C and 40 °C. Carefully store closed containers upright to prevent any leaks.

SECTION 8 : EXPOSURE CONTROLS & PERSONAL PROTECTION

Exposure Guidelines:	None established by OSHA or in Workplace Exposure Standards (WES)
Control parameters	None
Engineering Measures	Adequate ventilation should be considered when spraying
Eyes	Wear eye glasses with side protection according to EN 166.
Hands and Skin	For prolonged or repeated handling the following glove material must be used: e.g. NBR (Nitrile rubber). Barrier creams can help protecting exposed skin areas.
Respiratory General	Usually, no personal respiratory protection necessary. After contact, clean skin thoroughly with water and soap or use appropriate cleanser.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Dark brown liquid
Boiling Point:	About 100 °C
Density:	1200 g/L @ 25 °C
Flash Point:	Not available
pH:	10.5 ±0.5 (as is)
Vapour Pressure:	Not Available
Corrosion:	Not corrosive
Oxidisation:	Not an oxidiser
Solubility:	Fully soluble in water

SECTION 10 : STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Incompatibility:	Avoid strong acids
Hazardous Decomposition	Does not decompose when used for intended uses.
Hazardous Polymerization:	Does not occur.

SECTION 11 : TOXOLOGICAL INFORMATION

Potential Health Effects. This section includes the possible adverse health effects that could occur if the substance is not handled as recommended.

Acute Effects:

Ingestion:	May cause nausea and discomfort if swallowed.
Eye:	May cause eye irritation.
Skin:	May cause skin irritation with prolonged or repeated exposure.
Inhalation:	Avoid prolonged or repeated inhalation

Skin corrosion/irritation: Not considered a skin irritant

Serious eye damage/irritation : No evidence to support long term adverse effect on human eye, causes irritation, redness and pain

Ingestion: Ingestion to be avoided as will cause nausea and discomfort

Inhalation: Inhalation is the most significant route of exposure in occupational and other settings.

Skin Irritation: Not significantly absorbed through the skin

Reproduction: No data available

Carcinogen: No data available

SECTION 12 : ECOLOGICAL INFORMATION

Ecotoxicity
Toxicity: This product is a fertiliser and not considered harmful in recommended dosage

Phytotoxicity
Contains essential micronutrients for healthy growth of plants. Care should be taken to manage the amount of product released to the environment and regular testing before application is recommended.

Algal Toxicity No data

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Invertebrate toxicity	No data
Toxicity to fish:	No data
Degradability:	Being a fertiliser it breaks down into common natural elements
Bioaccumulation:	Not significantly bioaccumulative
Mobility:	Readily soluble in water and not recommended for application in concentrated form
Environmental fate:	Do NOT let product enter waterways, drains and sewers.

SECTION 13 : DISPOSAL CONSIDERATIONS

Disposal Method:	Follow the label directions. Triple rinse empty containers before disposal. Do not burn empty containers that have not been rinsed. Burn in an appropriate incinerator if circumstances such as wind direction permit. Otherwise crush or puncture and bury in a suitably approved landfill. Do not dispose of this product down drains or sewers. Follow all local, regional and national laws and regulations regarding hazardous waste disposal.
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SECTION 14 : TRANSPORT INFORMATION

This product is NOT classified as a Dangerous Good for transport in NZ ; NZS 5433:2012

SECTION 15 : REGULATORY INFORMATION

EPA Approval Code:	Fertilisers (subsidiary) - HSR002571
HSNO Classification:	Not considered hazardous
HSNO Controls:	Not required
Trigger quantities for this substance:	
Certified Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not applicable

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Signage Trigger Quantities	Not applicable
Emergency Response Plan QTY	Not applicable
Restrictions of use	None

SECTION 16 : OTHER INFORMATION

Glossary

EC50 Median effective concentration.

EPA Environmental Protection Agency.

HSNO Hazardous Substances and New Organisms.

HSW Health and Safety at Work.

LC50 Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.

LD50 Lethal dose to kill 50% of test animals/organisms.

LEL Lower explosive level.

OSHA American Occupational Safety and Health Administration.

TEL Tolerable Exposure Limit.

TLV Threshold Limit Value-an exposure limit set by responsible authority.

UEL Upper Explosive Level

WES Workplace Exposure Limit

References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Nov 2017 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2012
5. HSW (Hazardous Substances) Regulations 2017

The data in this Safety Data Sheet relates only to this product alone, and not to its use in combination with other substances or products. In such circumstances, assuming the combination is permitted (refer to product labels, and contact manufacturers if in doubt), be guided by the most hazardous of the substances involved, and observe the more stringent of all hazard controls applicable to the products used.

Further Information Nitrosol Limited

Toll-Free Phone (0800) 80 30 60