SAFETY DATA SHEET
Nitrosol Original

SECTION 1 : CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name: Nitrosol Oceanic Liquid Fertiliser

Proper Shipping Name: Liquid Ovine Blood & Bone Fertiliser

Product Use: Fertilizer

SUPPLIER: 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)

Prevention Statements:

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

Environmental protection Authority (New Zealand)

Hazardous Substances and New Organisms Act 2015

HSNO classification

Health Hazards None identified

Enviromental Hazards None identified

SECTION 3 : COMPOSITION

Ingredient	Proportion
Non-hazardous ingredients N.P.K. 8.3.6.elemental w/w - (8.6.7. w/v oxides)	100%

SECTION 4 : FIRST AID MEASURES

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

Skin: Wash skin well with soap and water. Remove & wash Contaminated clothing before re-use.

Ingestion: Induce Vomiting with Salt water, replenish fluids by giving plenty of water provided victim is conscious. Never administer anything orally to an unconscious person. Contact a doctor or Poisons should individual continue to feel unwell.
Information Centre (0800 POISON – 0800 764 766).

Inhalation: Clear airways and remove to fresh air. If not breathing give artificial respiration.
I 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.

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.
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	Usually no personal respirative protection necessary.
General	After contact clean skin thoroughly with water and soap or use appropriate cleanser.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Brown viscous liquid with typical blood & bone odour
Boiling Point:	About 100°C
Density:	1290 g/L @ 25°C
Flash Point:	Not available
pH:	7.8-8.2 (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 and/or alkalis
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. of the skin. Boric Acid is not a skin sensitizer.
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
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.

Not to be used on pasture for Dairy, Ovine or Bovine.

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.

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
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