



SAFETY DATA SHEET

OPTISPREAD[®] 1000

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND COMPANY

1.1 Identifiers

Product name: Optisread[®] 1000
Other Name(s):

1.2 Recommended use of the chemical and restrictions on use

Product Use: A tank mix adjuvant to improve wetting and spreading of pesticides

1.3 Supplier contact details:

Company name: Grosafe Chemicals Limited
Address: 20 Jean Batten Drive Mt Maunganui, 3116
Telephone: 0800 220 002
Email: info@grosafe.co.nz

Emergency telephone number 0800 CHEMCALL (0800 243 622)

SECTION 2: HAZARD IDENTIFICATION

2.1 Classification of the Hazardous Chemical

Hazardous substance according to Hazardous Substances and New Organisms (HSNO) Act 1996
HSNO Approval: HSR002503
Classifications: 6.1E (Oral), 6.3A, 6.9B (Repeated exposure), 8.3A, 9.1D, 9.3C.

2.2 Label elements:

Pictograms:



Signal Word: DANGER

Hazard statements:

H303 May be harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H373 May cause damage to organs through prolonged or repeated exposure by ingestion and inhalation.
H401 Toxic to aquatic life.

H433 Harmful to terrestrial vertebrates.

Precautionary statements:

Prevention

- P102 Keep out of reach of children.
 P103 Read label before use.
 P260 Do not breathe dust/mist/spray.
 P264 Wash hands and any exposed skin thoroughly after handling.
 P273 Avoid release to the environment.
 P280 Wear protective gloves, protective clothing and eye/face protection.

Response

- P101 If medical advice is needed, have product container or label at hand.
 P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
 P332 + P313 If skin irritation occurs: Get medical advice.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
 P310 Immediately call a Poison Centre or doctor.
 P362 Take off contaminated clothing and wash before reuse.

Storage

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Disposal

- P501 Dispose of contents/container in accordance with local regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS	Proportion %w/w
Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-, branched	127087-87-0	20 - 30 %
Alcohols, C12-14, ethoxylated	68439-50-9	5 - 15 %
2-(2-Butoxyethoxy) ethanol	112-34-5	>1 <10 %
Ingredients determined not to be hazardous		Balance

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General Information:

For advice call NATIONAL POISONS CENTRE (0800 POISON) for advice. Have label or Safety Data Sheet at hand.

Ingestion: If swallowed, do NOT induce vomiting. Rinse mouth with water and then give glass or two of water to drink. Get medical advice if person feels unwell.

Skin Contact: Remove contaminated clothing and wash affected area with soap and water. If irritation occurs then get medical advice.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE or doctor for advice. .

Inhalation: Remove person to fresh air and keep at rest in a position comfortable for breathing. If symptoms develop and/or persist seek medical attention.

SECTION 5: FIRE FIGHTING MEASURES

5.1 Suitable extinguishing media

Carbon dioxide, dry chemical, foam, water mist or water spray.

5.2 Hazards from Combustion Products

This product may emit toxic and/or irritating fumes, smoke and gases including carbon monoxide, carbon dioxide and nitrogen oxides.

5.3 Specific hazards arising from this chemical

This product will burn if exposed to fire.

5.4 Precautions in connection with fire

Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent exposure to vapours or fumes. Water spray may be used to cool down heat-exposed containers. Fight fire from a safe location. This product should be prevented from entering drains and watercourses.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

In the event of an accidental spill, wear full protective clothing including respiratory, eye and face protection. Wash contaminated personal protective equipment and clothing, and dry before re-use.

6.2 Environmental precautions

Prevent spillage from entering drains or waterways. If contamination of drains, streams, watercourses, etc. is unavoidable, warn the local water authority.

6.3 Methods and materials for containment and cleaning up

Contain spilled material, recover into labelled drums that can be sealed for safe disposal. If spray mixture is spilled, absorb and collect in drums. Deal with all spillages immediately.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid inhalation of vapours and mists, and skin or eye contact. Use only in a well-ventilated area. Keep containers sealed when not in use. Prevent the build-up of mists or vapours in the work atmosphere. Do not use near ignition sources. Do not pressurise, cut, heat or weld containers as they may contain hazardous substances. Maintain high standards of personal hygiene i.e. wash hands prior to eating, drinking, smoking or using toilet facilities.

7.2 Conditions for safe storage

Store locked up and sealed in the closed original packaging out of reach of children and in a dry, cool, well-ventilated area. Keep away from food, drink and animals feeding stuffs.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Occupational exposure limit values

No exposure limit established

8.2 Biological limit values

No exposure limits allocated.

8.3 Engineering controls

This substance is hazardous and should be used with a local exhaust ventilation system, drawing vapours away from workers' breathing zone. A flame-proof exhaust ventilation system is required. If the engineering controls are not sufficient to maintain concentrations of vapours/mists below the exposure standards, suitable respiratory protection must be worn. Refer to relevant regulations for further information concerning ventilation requirements.

8.4 Personal protective equipment (PPE)

The following Standards provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: **AS/NZS 4501**, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

Eye/Face Protection: Wear protective glasses or goggles when mixing or applying product.

Skin Protection: Wear impervious gloves, coat, trousers, waterproof hat. Ensure all skin areas are covered.

Respirator: Where product is being sprayed and a mist could be produced, a respirator should be worn. It should be fitted with a type G cartridge, suitable for agricultural chemicals.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear liquid
Odour	Not available
Odour threshold	Not available
pH	6.0 – 8.0 (as 1% aqueous solution)
Melting/Freezing Point	<0°C (approximate)
Boiling Point /Range	Not available
Flash point	>150°C (open cup)
Flammability (solid, gas)	Non flammable
Vapour Pressure	Not available
Vapour density	Not available
Specific gravity	1.0 (20°C) (approximate)
Solubility	Disperses in water
Partition Co-efficient n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not applicable

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Refer to section 10.6: Possibility of hazardous reactions

10.2 Chemical stability

Stable under normal conditions of storage and handling.

10.3 Conditions to Avoid

Heat, open flames and other sources of ignition.

10.4 Incompatible materials

Strong oxidising materials.

10.5 Hazardous decomposition products

Thermal decomposition may result in the release of toxic and/or irritating fumes including: oxides of nitrogen, carbon dioxide and carbon monoxide.

10.6 Possibility of hazardous reactions

Reacts with incompatible materials

10.7 Hazardous Polymerisation

Not available

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Health hazard information

The product is classified for health hazards according to an assessment of information on product components.

11.2 Toxicological information

Ingestion	May be harmful if swallowed. Ingestion of this product may cause irritation to the mouth, throat, oesophagus and stomach with symptoms of nausea, abdominal discomfort, vomiting and diarrhoea.
Inhalation	Inhalation of product vapours may cause irritation of the nose, throat and respiratory system.
Skin corrosion/irritation	Causes skin irritation. Skin contact will cause redness, itching and swelling. Repeated exposure may cause skin dryness and cracking and may lead to dermatitis.
Serious eye damage/irritation	Causes serious eye damage. Eye contact will cause stinging, blurring, tearing, severe pain and possible burns, necrosis, permanent damage and blindness.
Respiratory sensitisation	Not expected to be a respiratory sensitiser.
Skin sensitiser	No expected to be a skin sensitiser.
Germ cell mutagenicity:	Not considered to be a mutagenic hazard.
Carcinogenicity	Not considered to be a carcinogenic hazard.
Reproductive toxicity	Not considered to be toxic to reproduction
Specific target organ toxicity – single/repeated exposure	May cause damage to organs through prolonged or repeated exposure by ingestion, or inhalation.
Aspiration hazard	Not expected to be an aspiration hazard.

11.3 Toxicological data

Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega- hydroxy-,branched	Rat, oral LD ₅₀ 1310 mg/kg
2-(2-Butoxyethoxy) ethanol	Rat, oral LD ₅₀ ≥ 2000 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

12.1 Ecotoxicity

Toxic to aquatic life. Harmful to terrestrial vertebrates.

12.2 Persistence and degradability

Not available for formulated product.

12.3 Mobility

Not available for formulated product.

12.4 Bioaccumulative Potential

Not available for formulated product.

12.5 Other adverse effects

Not available for formulated product.

12.6 Environmental protection

Prevent this material from entering waterways, drains and sewers.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Product Disposal

Dispose of waste according to applicable local and national regulations. Do not allow into drains, watercourses or dispose of where ground or surface waters may be affected. Wastes including

emptied containers are controlled wastes and should be disposed of in accordance with all applicable local and national regulations.

This product can be disposed of through a licensed commercial waste collection service. In this specific case, the product is a combustible substance and therefore can be sent to an approved high temperature incineration plant for disposal.

13.2 Container Disposal

The container or packaging must be cleaned and rendered incapable of holding any substance. It can then be disposed of in a manner consistent with that of the substance it contained. In this instance, the packaging can be disposed through a commercial waste collection service.

SECTION 14: TRANSPORT INFORMATION

Road and Rail Transport:

Not classified as Dangerous Goods for the transport according to the New Zealand Standard NZS 5433:2012 Transport of Dangerous Goods on Land.

Marine Transport (IMO/IMDG):

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Air Transport (ICAO/IATA):

Not classified as Dangerous Good by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulation for transport by air.

UN Number: None Allocated

UN Proper Shipping Name: None Allocated

Transport hazard class(es) None Allocated

Packing Group: None Allocated

Special Precautions for User: Not available

IMDG Marine pollutant: No

Transport in Bulk: Not available

SECTION 15: REGULATORY INFORMATION

Classified as Hazardous according to the Hazardous Substances (Classification) Notice 2017, New Zealand.

Approved substance number: HSR002503

Group Standard: Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2017.

Hazardous classifications: 6.1E(Oral), 6.3A, 6.9B(Repeated exposure), 8.3A, 9.1D, 9.3C.

Controls: Refer to HS Notices (www.epa.govt.nz) and HSW HS Regulations (www.worksafe.govt.nz)

SECTION 16: OTHER INFORMATION

16.1 Date of preparation or last revision of SDS

SDS issued 11 January 2019

SDS supersedes Not applicable

Reason issued New product

16.2 ABBREVIATIONS

ADI Acceptable Daily Intakes

CAS number	Chemical Abstracts Service Registry Number
CCID	Chemical Classification Identification Database
EPA	Environmental Protection Authority
ErC₅₀	Half maximal Effective Concentration
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
HSNO	Hazardous Substances and New Organisms
HS	Health and Safety
HSR	Hazardous Substances Register
IARC	International Agency for Research on Cancer
LC₅₀	Median Lethal Concentration
LD₅₀	Median Lethal Dose
SDS	Safety Data Sheets
NOAEL	No Observable Adverse Effect Level
NOEL	No Observable Effect Level
NOS	Not otherwise specified
STEL	Short Term Exposure Limit
SWA	Safety Work Australia
TWA	Time-Weighted Average
UN Number	United Nations Number

16.3 REFERENCES

Manufacturer information

EPA CCID and Approved Substance databases

University of Hertfordshire Pesticides Properties Database

16.4 OTHER

Optispread® 1000 is a registered trademark of Grosafe Chemicals Ltd

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End of Safety Data Sheet