

SAFETY DATA SHEET

INTREPID®

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND COMPANY

1.1 Identifiers

Product name: Intrepid®

Other Name(s): 360g/L clethodim in the form of an emulsifiable concentrate

1.2 Recommended use of the chemical and restrictions on use

Product Use: A selective post emergence herbicide for grass weed control

in broadleaf crops and forestry.

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 (24 hour) 0800 CHEMCALL (0800 243 622)

SECTION 2: HAZARD IDENTIFICATION

2.1 Classification of the substance

Hazardous substance according to Hazardous Substances and New Organisms (HSNO) Act 1996 HSNO Approval: HSR100921

Hazard Classifications: Flammable liquid Category 4, Aspiration hazard Category 1, Skin irritation Category 2; Eye irritation Category 2, Specific target organ toxicity (repeated exposure) Category 2, Hazardous to soil organisms; Hazardous to terrestrial vertebrates; Hazardous to the aquatic environment chronic Category 3.

2.2 Label elements:

Pictograms:





Signal Word: DANGER

Hazard statements:

H227 Combustible liquid

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation

H319 Causes serious eye irritation.

H373 May cause liver damage from repeated oral exposure at high doses.

H412 Harmful to aquatic life with long lasting effects.



Harmful to soil organisms. Harmful to terrestrial vertebrates.

Precautionary statements:

Prevention

P102 Keep out of reach of children.

P103 Read label before use.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P260 Do not breathe spray, fumes, mist or vapours.

P264 Wash hands and exposed skin thoroughly after handling.
P280 Wear protective gloves, eye protection/face protection.

Response

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

P301 + P310 IF SWALLOWED: IMMEDIATELY call a POISON CENTER or doctor/physician.

P331 Do NOT induce vomiting.

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

P305 + P351 + IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

P338 present and easy to do. Continue rinsing.

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

P312 Call the POISON CENTER or doctor/physician if you feel unwell.

P314 Get medical advice/attention if you feel unwell.

P362 + P364 Take off contaminated clothing and wash before reuse.

P370 + P378 In case of fire: Use carbon dioxide, dry chemical, foam or water spray (fog)for extinction.

P391 Collect spillage.

Storage

P403 Store in a well-ventilated place.

P405 Store locked up.

Disposal

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

Additional labelling statements required under Hazardous Substances (Labelling) Notice 2017 Do not apply directly into or onto water.

Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS	Proportion %w/w
Clethodim	99129-21-2	360g/L
Solvent naphtha dearomatized	64742-48-9	580g/L
Other ingredients that don't contribute to the hazard classifications of this product	-	Balance up to 1L



SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General Information:

For advice, or if you feel unwell, call the NATIONAL POISONS CENTRE (0800 POISON) for advice. Have product container or label at hand.

IF SWALLOWED: Do NOT induce vomiting. IMMEDIATELY call a POISON CENTER or doctor/physician.

IF ON SKIN: Take off contaminated clothing and wash before reuse. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. If symptoms develop seek medical attention.

Medical attention and special treatment

Treat symptomatically. No symptoms relating to exposure are expected.

SECTION 5: FIRE FIGHTING MEASURES

5.1 Suitable extinguishing media

Water fog, foam, carbon dioxide or dry chemical.

5.2 Specific Hazards from Combustion Products

On burning will emit toxic and irritating fumes. Normal combustion forms carbon dioxide, water vapour and may produce oxides of nitrogen. Combustion may produce toxic compounds of chlorine. Incomplete combustion can produce carbon monoxide.

5.3 Protective equipment and precautions for firefighters

Isolate fire area. Evacuate downwind. Firefighters to wear self-contained breathing apparatus and suitable protective clothing if risk to of exposure to vapour or smoke. Keep containers cool by spraying with water. Do not breathe or contact smoke, gases or vapours generated. Contain all run off.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Have this SDS available. In the event of an accidental spill, wear full protective clothing including respiratory, gloves and eye/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, advise the local water authority.

6.3 Methods and materials for containment and cleaning up

Contain spilled material. For small liquid spills, use absorbent material such as sand, soil, vermiculite and recover into labelled drums that can be sealed for safe disposal. For large liquid spills, recover liquid into labelled containers then absorb remaining liquid and transfer to labelled drums for disposal. Clean area with water and detergent. Dispose of contaminated materials to approved landfill in accordance with local regulations.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Read the product label before use. Wear protective eye protection/face protection, protective gloves and protective clothing. Wash hands and any exposed skin thoroughly after handling.



7.2 Conditions for safe storage

Keep out of reach of children. Store locked up in the tightly closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight. DO NOT store near feedstuffs or seed. Do not store near heat or flame. Stores containing 500 L or more of Intrepid must have at least 2 fire extinguishers.

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

Use in well-ventilated areas only. Use local exhaust at all process locations. Ventilate all transport vehicles prior to unloading. Keep containers closed when not in use. 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, goggles or face shield 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 cartridge suitable for agricultural chemicals.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance Amber liquid

Odour Mild aromatic odour.
Odour threshold Not available

pH 5.0 - 7.0

Melting/Freezing Point <0°C (approximate)
Boiling Point /Range Not available

Flash point <93°C

Flammability (solid, gas) Combustible liquid

Upper/lower flammability or explosive limits No data

Vapour Pressure Negligible at normal ambient temperatures

Vapour density No data Specific gravity 1.03 g/ml

Solubility Emulsifiable in water

Partition Co-efficient n-octanol/water

Auto-ignition temperature

No data

No data

Decomposition temperature

No data

Viscosity

No data

Particle characteristics

No data



SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity and stability

Stable under normal conditions of storage and handling. Active may degrade in strong UV light.

10.2 Conditions to Avoid

Do not store for prolonged periods in direct sunlight.

10.3 Incompatible materials

Explosives (class 1), oxidising gases, oxidising liquids, oxidising solids, organic peroxides

10.4 Hazardous decomposition products

Product is unlikely to decompose until heated to dryness. On further heating will emit unidentified toxic fumes.

10.5 Possibility of hazardous reactions

Chloride compounds, nitrogen oxides and Sulfur oxides.

10.6 Hazardous Polymerisation

No information 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

Acute toxicity: Not classified as acutely toxic by oral, dermal or

inhalation routes.

Aspiration hazard: Aspiration toxicant: may be fatal if swallowed and

enters airways

Respiratory irritation: Not classified.

Skin corrosion/irritationCauses skin irritation.

Serious eye damage/irritation Causes serious eye irritation.

Respiratory or skin sensitisation Not classified.

Germ cell mutagenicity:No ingredients in product identified as presumed or

suspected mutagens.

Carcinogenicity No ingredients in product identified as presumed or

suspected carcinogens.

Reproductive toxicity

No ingredients in product identified suspected of

damaging fertility or the unborn child.

Specific target organ toxicity -

single/repeated exposure

May cause damage to liver through prolonged or

repeated oral exposure.

Narcotic effects Product contains no ingredient identified as causing

narcotic effects.

11.3 Toxicological data

No data for formulated product.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Ecotoxicity

This product is classified as Hazardous to soil organisms; Hazardous to terrestrial vertebrates; Hazardous to the aquatic environment chronic Category 3.



No data available for formulated product. The following data is for the active ingredient, clethodim.

Aquatic life: LC50 (96 hr) for rainbow trout is 19 mg/L. EC50 (48hr) for daphnia is 20.2 mg/L.

Birds: LD50 for bobwhite quail is oral > 2000 mg/L

Bees: LD50 contact >100 μg/bee.
12.2 Persistence and degradability

Non-persistent (clethodim). DT₅₀ (typical) 0.54

12.3 Mobility

Low leachability (clethodim)

12.4 Bioaccumulative Potential

Low potential (clethodim). BCF (l kg⁻¹) 3.5.

12.5 Other adverse effects

This product may cause serious damage to non-target terrestrial plants.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Product Disposal

Dispose of this product only by using according to the label, or through a Chemical Recovery service or other licensed hazardous waste disposal facility.

13.2 Container Disposal

Triple rinse empty container and add rinsate to spray tank. Submit clean empty container to an Agrecovery® depot for recycling. Alternatively, puncture and dispose of at an approved landfill.

13.3 Precautions

Do not allow product or empty container to enter waterways.

13.4 Disposal methods to avoid

Do not burn empty container. Do not allow product or empty container to enter waterways.

SECTION 14: TRANSPORT INFORMAITON

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.

SECTION 15: REGULATORY INFORMATION

Hazardous substance according to Hazardous Substances (Hazard Classification) Notice 2020.

Approval number: HSR100921

Hazardous classifications: Flammable liquid Category 4, Aspiration hazard

Category 1, Skin irritation Category 2; Eye irritation Category 2, Specific target organ toxicity (repeated exposure) Category 2, Hazardous to soil organisms;



Hazardous to terrestrial vertebrates; Hazardous to the

aquatic environment chronic Category 3.

HSW (HS) Regulations 2017 Trigger Quantity

Certified HandlerNot requiredLocation CertificateNot required

Signage Trigger Quantity (Schedule 3) 1000 L

Emergency Response Plan (Schedule 5) 1000 L

Secondary Containment (Schedule 16) 1000 L

Tracking (Schedule 26) Net require

Tracking (Schedule 26)

Tolerable Exposure Level (TEL)

None set

Environmental Exposure Level (EEL)

None set

International Agreements

Not applicable

Additional Controls: The application of the substance must be limited to

ground-based application methods only, where ground-based methods of applying pesticides include, but are not limited to, application by ground boom, airblast or knapsack, and do not include aerial

application methods.

Additional information: Refer to HS Notices (www.epa.govt.nz) and HSW HS

Regulations (www.worksafe.govt.nz)

ACVM registration: Registered pursuant to the Agricultural Compounds

and Veterinary Medicines Act 1997; registration

number P010165.

SECTION 16: OTHER INFORMATION

16.1 Date of preparation or last revision of SDS

SDS issued 03 September 2024

SDS supersedes N/A

Reason issued Initial SDS

16.2 ABREVIATIONS

ADI Acceptable Daily Intakes

CAS number Chemical Abstracts Service Registry Number CCID Chemical Classification Identification Database

EPA Environmental Protection Authority **ErC**₅₀ Half maximal Effective Concentration

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

Intrepid® is a registered trademark of Grosafe Chemicals Ltd

Information contained in this Safety Data Sheet is provided in good faith and is believed to be correct at the date hereof. However, it's expected that individuals receiving the information will exercise independent judgement in determining its appropriateness for a particular purpose. Grosafe Chemicals Ltd makes no representation whatsoever as to the accuracy or comprehensiveness of the information and to the full extent allowed by law excludes all liability whatsoever, whether with respect to negligence or otherwise, and no responsibility as permitted by law for any loss or damage arising from or connection with the supply or use of the information in this Safety Data Sheet.

End of Safety Data Sheet