

BioWeed™ Herbicide

Concentrate

SAFETY DATA SHEET

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Chemical Product and Company Name

Manufacturer /Supplier	Sustainable Formulations Group Pty Ltd 89 Cherry Lane Laverton North VIC 3026 Phone +61 1300 246 933 Fax +61 03 8368 2864 Email info@sustainableformulations.com
Product Name	BioWeed™ Herbicide Concentrate
Chemical Nature	Terpene alcohols and saponified fatty acids
Intended Use	Weed Control Spray

1. Composition/Information on Ingredients

Name	Alpha Terpineol from plant sources
CAS-nr	8002-09-3
Content	42-47%
R-phrases	R 38/41
Classification	Xi

2. Hazard Identification

Ingestion	Large quantities may cause gastrointestinal irritation. Severe
Eye Contact	Irritant
Skin Contact	Moderate Irritant
Inhalation	Vapours and mists may be irritating to mucous membrane and respiratory system.
Environmental Classification	Biocide – harmful to plants. Expected to have no more than minor effects on aquatic organisms.

3. First Aid Measure

Inhalation	Remove patient to fresh air and seek medical attention if breathing becomes difficult.
Skin Contact	Wash off contamination with soap and water. Seek medical attention if irritation persists.
Eye Contact	Rinse immediately with plenty of water for several minutes whilst keeping the eye lids separated. Seek medical advice directly.
Ingestion	Drink water or milk. If large quantities have been swallowed or if you feel unwell, obtain medical attention.

4. Fire Fighting Measures

Flammability

Not Flammable

5. Accidental Release Measures

ENVIRONMENTAL PROTECTION / CLEAN UP MEASURES

Large Spillages

Collect as much as possible in a clean container for [preferable] reuse or disposal. Contain and/or absorb spill with inert material [e.g. sand, vermiculite, sawdust].

Small Spillages

As for large spillages.

Personal Protection

Goggles, rubber/PVC gloves and working clothes. If vapours or mist are generated use a breathing mask.

7. Handling and Storage

Handling

Handle in a well-ventilated work place. Use normal handling precautions applicable to industrial chemicals.

Storage

Store in closed containers.

8. Exposure Controls / Personal

Respiratory Protection

Good ventilation should be provided in working areas.

Skin Contact

Use rubber/PVC gloves and working clothes. Contaminated clothing should be laundered before re-use.

Eye/Face Contact

Goggles and eyewash station.

9. Physical and Chemical Properties

APPEARANCE

Form Colour Odour

Melting Point/Boiling Point pH

Viscosity Flash Point

Vapour Pressure Vapour density [Air=1] Evaporation Rate Specific Gravity Solubility

Liquid

Pale Amber Pinaceous

10-11

35-45 mPA.s at 20°C

>100°

C [PMCC]

<ImmHg[20°C]5.30

[Butyl acetate = 1):<I]

[Water= 1) 0.95 Soluble in water.

10. Stability and Reactivity

Hazardous Decomposition

Oxides of carbon, nitrogen and water.

11. Toxicological Information

ACUTE TOXICITY

Oral

Not classified as hazard [al Test: OECD 423; GLP: Yes.

Dermal

Not classified as hazard [al Test: OECD 402; GLP: Yes.

Inhalation

Not classified as hazard [al Test: OECD 403; GLP: Yes.
(aeu labelling regulations Council Directive 78/631/EEC)

IRRITATION DATA

Skin Contact

Moderate irritant.

Eye Contact

Sever irritant.

Sensitization Data

Not sensitising [guinea pig Maximisation test)

Carcinogenicity and Mutagenicity

Not listed by NTP*

Not listed under Cal Prop65*

Not regulated by OSHA*

Not regulated by IARC*

Reproductive Toxicity

None known

Teratogenicity

None known

Additional Information

Inhalation of mist may result in irritation of the mucous membranes.

12. Ecological Information

•estimated from analogous products

Biodegradability	Degradable: .97% breakdown in 3-100.
Aquatic Toxicity	EC50 [fish: 96H]= 16.3mg/l; EC50 [daphnia; 48H) = 10.9mg/l.
Toxicity – Aquatic and Terrestrial Plants	Herbicide.
Acute Toxicity – Birds	Not an acute oral hazard to vertebrates [rat).
Other Information	Not expected to bioaccumulate [BCF <500). •

13. Disposal Considerations

Product Disposal	May be disposed of by landfill or by incineration, subject to local authorisation using licensed contractors.
Packaging Disposal	As for product or triple rinse container with water and recycle.

14. Transport Information

Summary	Flash point> 100°C (PMCC)
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15. Regulatory Information

INTERNATIONAL CHEMICALS INVENTORIES

Europe – EINECS	Not listed.
USA – TSCA	All components listed.
Canada – SL	In compliance.
Australia – AICS	In compliance.
Japan – MITI	In compliance.
R Phases	R41 (Risk of serious damage to eyes). R38 (Irritating to skin).
S Phases	S20/21 (When using do not eat, drink or smoke). S23 (Do not breathe vapours/spray). S24/25 (Avoid contact with skin and eyes). S26 (In case of contact with eyes, rinse immediately with plenty of water and seek medical advice). S28 (After contact with skin, wash immediately with plenty of soap and water). S29 (Do not empty into drains). S36/37/39 (Wear suitable protective clothing/suitable gloves/ eyes or face protection).

16. Other Information

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