

Section 1. Identification: product identifier & chemical identity

Product Name	BioWeed® Organic Herbicide Concentrate
Intended Use	Herbicide
Chemical Nature	Terpene alcohols and saponified fatty acids

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

Emergency Phone	13 11 26 (Poisons Information Centre)
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Section 2. Hazard Identification

Signal Word	Danger
Hazard Class & Category	Skin corrosion / irritation – category 2 Serious eye damage/irritation – category 1 Specific target organ toxicity (single exposure) – category 3
Hazard Statement	H315 Causes skin irritation H318 Causes serious eye damage H335 May cause respiratory irritation
Prevention	P264 Wash hands thoroughly after handling P280 Wear protective gloves, eye protection, face protection P261 Avoid breathing fume, vapours, spray P271 Use only outdoors or in a well ventilated area
Response	P302+P352 IF ON SKIN: wash with plenty of soap and water P332+P313 If skin irritation occurs: Get medical advice/attention P362 Take off contaminated clothing and wash before reuse P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P310 Immediately call a POISON CENTRE or a doctor/physician P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P312 Call a POISON CENTRE or doctor/physician if you feel unwell

Storage	P403 + P233 Store in a well ventilated place. Keep container tightly closed
	P405 Store locked up
Disposal	P501 Dispose of contents/container as specified on registered label

Section 3. Composition/Information on Ingredients

Name	Pine Oil
CAS-nr	8002-09-3
Content	680 g/L
Name	Non-hazardous ingredients
Content	to 1L

Section 4. First Aid Measure

Routes of Exposure:

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.
Most Important symptoms and effects	Ingestion: Large quantities may cause gastrointestinal irritation. Inhalation: Vapours and mists maybe irritating to mucous membrane and respiratory system. Skin: Causes skin irritation Eye: Causes severe eye damage

Section 5. Fire Fighting Measures

Hazard Type	Not Flammable
Suitable Extinguishing Equipment	Water mist or water spray, foam, dry powder or carbon dioxide
Hazards from combustion products	Oxides of carbon, nitrogen and water
Precautions for Firefighters and Special Protection Clothing	Self-contained breathing apparatus should be worn when fighting fire. Have fire extinguishers available.

Section 6. Accidental Release Measures

Personal Protection	Wear personal protective gear as detailed in Section 8 below.
Environmental Precautions	Prevent the product from reaching sewage and water courses in large quantities.
Method & Material for Clean Up	For both small and 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]. Dispose of waste according to the applicable local and national regulations.

Section 7. Handling and Storage

Precautions for Handling	Keep out of reach of children Read label before use Wash hands thoroughly after handling Avoid release to the environment Wear protective clothing as detailed in Section 8 Handle in a well ventilated workplace Use normal handling precautions applicable to industrial chemicals
Precautions for Storage	Store away from incompatible materials listed in Section 10 Store in closed containers in a cool, well ventilated area

Section 8. Exposure Controls / Personal Protection

Workplace Exposure Standards	No ingredients have exposure limits
Engineering Controls	Good ventilation should be provided in working areas.
Eye and Face Protection	Goggles and eyewash station.
Skin Protection	Use rubber/PVC gloves and full working clothes. Contaminated clothing should be laundered before re-use.
Respiratory Protection	Provide adequate ventilation. If applying by low pressure hand wand wear half facepiece respirator

Section 9. Physical and Chemical Properties

Appearance	Pale amber liquid
Auto Ignition Temp	Not available
Decomposition Temperature	Not available
Evaporation Rate	<1
Flammability	Not available
Flash Point	>100°
Initial Boiling Point and Range	>101°
Melting Point/Freezing Point	Not available
Odour	Pinaceous (Pine odour)
Odour Threshold	Not available
Partition Coefficient	Not available
pH	10-11
Relative Density	Not available
Solubility	Soluble in Water
Upper/Lower Flammability/Explosive Limits	Not available
Vapour Density (Air = 1)	5.30
Vapour Pressure	<1mm Hg [20°C]
Viscosity	Not available

Section 10. Stability and Reactivity

Reactivity	This product is unlikely to react under normal conditions
Chemical Stability	This product is stable under normal conditions
Possibility of Hazardous Reactions	None known
Condition to Avoid	None known
Incompatible Materials	Incompatible with strong oxidising agents
Hazardous Decomposition Products	Oxides of carbon, nitrogen and water.

Section 11. Toxicological Information

ACUTE TOXICITY

Oral	Not classified as a hazard – Large quantities may cause gastrointestinal irritation
Dermal	Not classified as a hazard - Causes skin irritation
Inhalation	Not classified as a hazard - Inhalation of mist may result in irritation of the mucous membranes.
Eye	Causes severe eye damage

IRRITATION DATA

Skin Contact	Moderate irritant
Eye Contact	Severe irritant
Inhalation	Inhalation of mist may result in irritation of the mucous membranes
Sensitization Data	Not sensitising
Carcinogenicity and Mutagenicity	Not listed by NTP* Not listed under Cal Prop65* Not regulated by OSHA* Not regulated by IARC*
Reproductive Toxicity	Not applicable
Specific Target Organ Toxicity	Not applicable

Section 12. Ecological Information

Biodegradability	Degradable: .97% breakdown in 3-100.
Mobility in Soil	No data available
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

Section 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.
Precautions	Do not allow to enter waterways

Section 14. Transport Information

Transport	This product is not classified as a dangerous good for transport.
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Section 15. Regulatory Information

Australia – AICS	In compliance.
SUSMP – Therapeutic Goods Act 1989	Poison Schedule 6

Section 16. Other Information

Issued by	Sustainable Formulations Group Pty Ltd
Date of Issue	23 October 2018
Revision	2.1
Revisions	All sections of the SDS have been updated
Previously issued	10 January 2018
Product Name	BioWeed Organic Herbicide Concentrate

Acronyms	
AICS	Australian Inventory of Chemical Substances
SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
CAS Number	Chemical Abstracts Service Registry Number
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program (USA)
Cal Prop65	California Proposition 65
OSHA	American Occupational Safety & Health Administration
EC50	Median effective concentration

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