



Material Safety Data Sheet

Organic Herbicide

www.gonaturalgardening.com.au

DISCLAIMER

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COMPANY and PRODUCT NAME

Supplier Horticulture Trade Corporation International Pty Ltd
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Product Name Organic Herbicide
Intended Use Spot Weed Killer
Issue Date 1 January 2020

COMPOSITION & HAZARDOUS INGREDIENTS

Name: Alpha Terpineol from plant sources (Pine)
CAS-nr 8002-09-3
R-phrases: R 38/41
Classification: Xi

HAZARD IDENTIFICATION

Hazard to man/target organ effects

Ingestion Large quantities may cause gastrointestinal irritation
Eye Contact Severe 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

FIRST AID MEASURES

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.

FIRE AND EXPLOSION DATA

Flammability Not flammable

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

HANDLING AND STORAGE

Handling	Handle in a well-ventilated work place. Use normal handling precautions applicable to industrial chemicals
Storage	Store in closed containers

EXPOSURE CONTROLS / PERSONAL PROTECTION

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 Contact	Goggles and eyewash station.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	Liquid
Colour	Pale Amber
Odour	Pinaceous
Melting Point/Boiling Point	101 °C
pH	9.5-10.2
Viscosity	35-45 mPA.s at 20 °C
Flash Point	>100°C (PMCC)
Vapour Pressure	<1mm Hg (20°C)
Vapour density (Air=1)	5.30
Evaporation Rate	(Butyl acetate = 1): <1)
Specific Gravity	(Water = 1) 0.95
Solubility	Soluble in water

STABILITY AND REACTIVITY

Hazardous Decomposition Oxides of carbon, nitrogen and water

TOXICOLOGICAL INFORMATION

*estimated from analogous products

Acute Toxicity

Oral	Not classified as hazard (a) Test: OECD 423; GLP: Yes
Dermal	Not classified as hazard (a) Test: OECD 402; GLP: Yes
Inhalation	Not classified as hazard (a) Test: OECD 403; GLP: Yes (a - EU 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 evaluated by IARC*

Reproductive Toxicity	None known
Teratogenicity	None known
Additional Information	Inhalation of mist may result in irritation of the mucous membranes

ECOLOGICAL INFORMATION

*estimated from analogous products

Biodegradability	Degradable: >97% breakdown in 3-10D
Aquatic Toxicity	EC50 (fish; 96H) = 16.3 mg/l: EC50 daphnia; 48H) = 10.9 mg/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)*

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

TRANSPORT INFORMATION

Summary	Flash point > 100°C (PMCC)
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REGULATORY INFORMATION

International Chemicals Inventories

Europe - EINECS	Not listed
USA - TSCA	All components listed
Canada - DSL	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, was immediately with plenty of soap & water) S29 (Do not empty into drains) S36/37/39 (Wear suitable protective clothing/suitable gloves/eyes or face protection)