



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name	TERRAGREEN STRIPPER
Product number	361002 / 361052
Revision date	23-Jul-2007
Company information	Brulin & Company, Inc. P.O. Box 270 Indianapolis, IN 46206 US www.Brulin.com
Emergency	CHEMTREC 1-800-424-9300
General information	Phone: 317-923-3211 Fax: 317-925-4596

2. Hazards Identification

Emergency overview	WARNING Irritating to eyes, respiratory system and skin. Prolonged exposure may cause chronic effects. This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
Potential short term health effects	
Routes of exposure	Inhalation.
Eyes	Irritating to eyes. Avoid contact with eyes.
Skin	Health injuries are not known or expected under normal use. Prolonged and/or repeated skin contact may result in mild irritation or redness.
Inhalation	Prolonged or excessive inhalation may cause respiratory tract irritation.
Ingestion	Harmful if swallowed. Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly the digestive tract.
Target organs	Eyes. Respiratory system. Skin.

3. Composition / Information on Ingredients

Hazardous component(s)	CAS #	Percent
Propanol, 1-(2-butoxy-1-methylethoxy)-	29911-28-2	< 20
Isopropyl alcohol	67-63-0	< 2.5
Benzyl alcohol	100-51-6	< 10
Ethanolamine	141-43-5	< 10

4. First Aid Measures

First aid procedures	
Eye contact	Immediately flush eyes with plenty of water for at least 20 minutes. Get medical attention immediately.
Skin contact	Immediately flush skin with running water for at least 20 minutes. Remove and isolate contaminated clothing and shoes. Launder contaminated clothing before reuse. Get medical attention if irritation develops or persists.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Call a physician if symptoms develop or persist.
Ingestion	Give several glasses of water to dilute contents of stomach and call a physician. Have victim rinse mouth thoroughly with water. Do not induce vomiting without medical advice.
General advice	If you feel unwell, seek medical advice (show the label where possible).

TERRAGREEN STRIPPER

Product number: 361002 / 361052

5. Fire Fighting Measures

Extinguishing media

Suitable extinguishing media Small Fires: Dry chemical, CO2, water spray or regular foam.

Large Fires: Water spray, fog or regular foam.

6. Accidental Release Measures

Personal precautions

Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Methods for containment

Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning up

Never return spills in original containers for re-use.

Large Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Dike far ahead of liquid spill for later disposal.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

7. Handling and Storage

Handling

Handle and open container with care. Avoid contact with skin and eyes.

Storage

Keep out of the reach of children. Keep this material away from food, drink and animal feed. Keep at temperatures between 4 and 43°C.

8. Exposure Controls / Personal Protection

Exposure guidelines

ACGIH - Threshold Limits Values - Short Term Exposure Limits (TLV-STEL)

Ethanolamine	141-43-5	6 Ppm STEL
Isopropyl alcohol	67-63-0	400 Ppm STEL

ACGIH - Threshold Limits Values - Time Weighted Averages (TLV-TWA)

Ethanolamine	141-43-5	3 Ppm TWA
Isopropyl alcohol	67-63-0	200 Ppm TWA

ACGIH - Threshold Limits Values - TLV Basis - Critical Effects

Ethanolamine	141-43-5	eye and skin irritation
Isopropyl alcohol	67-63-0	CNS impairment; eye and upper respiratory tract irritation

OSHA - Final PELs - Time Weighted Averages (TWAs)

Ethanolamine	141-43-5	3 Ppm TWA; 6 mg/m ³ TWA
Isopropyl alcohol	67-63-0	400 Ppm TWA; 980 mg/m ³ TWA

Personal protective equipment

Eye / face protection Wear chemical goggles.

Skin protection Protective gloves.

Respiratory protection Not normally needed. In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Appearance Not available

Color green

Form Liquid.

Odor Mild organic

Odor threshold Not available

pH 10.8

Freezing point Not available

Boiling point 212 °F

TERRAGREEN STRIPPER

Product number: 361002 / 361052

Flash point	> 212 °F Pinsky-Martens Closed Cup
Flammability limits in air, lower, % by volume	Not available
Flammability limits in air, upper, % by volume	Not available
Vapor pressure	Not available
Vapor density	Not available
Specific gravity	1.014
Solubility (H₂O)	100 %
VOC (Weight %)	7.25 % estimated

10. Chemical Stability & Reactivity Information

Chemical stability	Stable at normal conditions.
Conditions to avoid	Do not freeze.
Incompatible materials	Strong oxidizing agents. Strong acids.
Possibility of hazardous reactions	Will not occur.

11. Toxicological Information

Acute effects	Acute LD50: 9726 mg/kg estimated, Rat, Oral Acute LD50: 32212 mg/kg estimated, Rat, Dermal irritation of mucous membranes
Local effects	Irritating to eyes. Irritating to respiratory system.
Chronic effects	Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood. Prolonged exposure may cause chronic effects.
Further information	Symptoms may be delayed.

12. Ecological Information

Ecotoxicity	Components of this product have been identified as having potential environmental concerns.
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13. Disposal Considerations

Disposal instructions	Dispose in accordance with all applicable regulations. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.
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14. Transport Information

Department of Transportation (DOT) Requirements

Not regulated as dangerous goods.

Department of Transportation (DOT) Requirements NON-BULK

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

TERRAGREEN STRIPPER

Product number: 361002 / 361052

15. Regulatory Information

US federal regulations

All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.

CERCLA/SARA - Section 313 - Emission Reporting

Isopropyl alcohol

67-63-0

1.0 % de minimis concentration (only if manufactured by the strong acid process, no supplier notification)

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance No

Section 311 hazardous chemical Yes

International regulations

The product is classified and labelled in accordance with EC directives or respective national laws.

State regulations

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

16. Other Information

HMIS rating

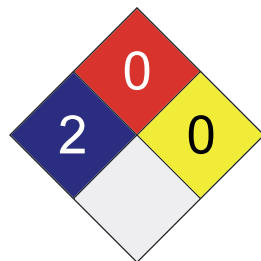
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Physical Hazard 0

Personal Protection B

NFPA codes



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Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.