SAFETY DATA SHEET

Issue Date 01-Mar-2010 **Revision Date** 31-May-2013 **Version** 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name Zero Odorless Mastic Remover

Other Means of Identification

SDS # GI-005

UN/ID No NA1993
Product Code 19185

Recommended Use of the Chemical and Restrictions on Use

Recommended Use Mastic remover.

Details of the Supplier of the Safety Data Sheet

Supplier Address
Grayling Industries, Inc.
1008 Branch Drive
Alpharetta, GA 30004

Emergency Telephone Number

Company Phone Number 1-800-635-1551
Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Classification

Serious Eye Damage/Eye Irritation	Category 2
Aspiration toxicity	Category 1
Flammable liquids	Category 4

Signal Word
DANGER

Hazard Statements
Causes serious eye irritation
May be fatal if swallowed and enters airways
Combustible liquid

Appearance Clear liquid **Physical State** Liquid **Odor** Slight Solvent

Precautionary Statements - Prevention
Wash face, hands and any exposed skin thoroughly after handling
Keep away from heat/sparks/open flames/hot surfaces. — No smoking
Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Immediately call a POISON CENTER or doctor/physician
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
Do NOT induce vomiting
In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage
Store locked up
Store in a well-ventilated place.

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

Other Hazards
Very toxic to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
1-Dodecene	112-41-4	Proprietary
Diethylene glycol monobutyl ether	112-34-5	Proprietary
Nonylphenol Ethoxylate	127087-87-0	Proprietary

4. FIRST AID MEASURES

First Aid Measures

Eye Contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

Skin Contact Wash with soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.

Inhalation Remove to fresh air. If symptoms persist, call a physician. If breathing is difficult, give oxygen. Keep patient warm and at rest. Get medical attention.

Ingestion Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If drowsy or unconscious, do not give anything by mouth; place individual on the left side with head down. Do not leave victim unattended. Seek medical attention.

Most Important Symptoms and Effects, both Acute and Delayed

Symptoms May cause nausea, vomiting, stomach ache, and diarrhea. May cause irritation to the mucous membranes and upper respiratory tract. Overexposure by inhalation may cause CNS depression- drowsiness, dizziness, confusion or loss of coordination.

Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physicians Medical conditions generally aggravated by exposure: Skin problems and lung diseases.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
AFFF. Carbon dioxide (CO2). Dry chemical.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical
If product is heated above its flash point, it will produce vapors sufficient to support combustion. Most vapors are heavier than air. Vapors may spread along ground and collect in low or confined areas (sewers, basements, tanks). Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite/explode. May form explosive peroxides.

Hazardous Combustion Products Carbon dioxide (CO2). Carbon monoxide. Hydrocarbons.

Sensitivity to Mechanical Impact Not impact sensitive.
Sensitivity to Static Discharge Not sensitive.

Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). For large spills, evacuate the hazard area of unprotected personnel.

Environmental Precautions Prevent entry into waterways, sewers, basements or confined areas. If run-off occurs, notify proper authorities, as required, that a spill has occurred. See Section 12 for additional ecological information.

Methods and Material for Containment and Cleaning Up

Methods for Containment For small spills, absorb liquid on vermiculite or other absorbent material. For large spills, stop spill at source.

Methods for Cleaning Up Transfer contaminated absorbent, soil, and other materials to containers for disposal.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Advice on Safe Handling Wash face, hands, and any exposed skin thoroughly after handling. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Use personal protection recommended in Section 8. Emptied container retains product residue. Observe all labeled safeguards until container is cleaned, reconditioned or destroyed. Take precautionary measures against static discharges. Ground/bond container and receiving equipment. Sudden release of hot organic chemical vapors or mists from process equipment operating at elevated temperature and pressure, or sudden ingress of air into vacuum equipment, may result in ignitions without the presence of obvious ignition sources. Published flashpoint temperature value cannot be treated as safe operating temperatures in chemical processes without analysis of the actual process conditions. Any use of this product in elevated temperature processes should be thoroughly evaluated to establish and maintain safe operating conditions.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity).

Incompatible Materials Oxidizing agents. Reducing agent. Strong acids. Strong bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines No exposure limits noted for ingredient(s) The following information is given as general guidance Because use conditions will vary, depending upon customer applications, specific safe handling procedures should be developed by persons knowledgeable of the intended use conditions and equipment

Appropriate Engineering Controls

Engineering Controls Apply technical measures to comply with the occupational exposure limits.

Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection Wear approved safety goggles.

Skin and Body Protection Normal work clothing (long sleeved shirts and long pants) is recommended. Wear protective nitrile rubber gloves.

Respiratory Protection Use NIOSH approved air-purifying respirator if the potential to exceed established exposure limits exists. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure is not known, or any other circumstances where air purifying respirators may not provide adequate protection.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	Liquid		
Appearance	Clear liquid	**Odor**	Slight Solvent
Color	Clear	**Odor Threshold**	0.48 ppm

Property	**Values**	**Remarks • Method**
pH	Not applicable	
Melting Point/Freezing Point	< -46 °C / <-50 °F	
Boiling Point/Boiling Range	212.7-216.1 °C / 415.0-421.0 °F	
Flash Point	71.1-76.6 °C / 160.0-170.0 °F	Tag Closed Cup
Evaporation Rate	Slower than ethyl ether	
Flammability (Solid, Gas)	n/a-liquid	
Upper Flammability Limits	24.6	
Lower Flammability Limit	0.4%	
Vapor Pressure	0.266 hPa	@ 20°C (68°F) (calculated)
Vapor Density	>1	(Air=1)
Relative Density (Specific Gravity)	6.600 lb/gal 0.793 kg/L	@ 25 °C (77 °F)
Water Solubility	Not determined	
Solubility in Other Solvents	Not determined	
Partition Coefficient	Not applicable	
Autoignition Temperature	>205 °C / >400 °F	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	

Property	Values	Remarks • Method
Dynamic Viscosity	Not determined	
Explosive Properties	Not determined	
Oxidizing Properties	Not determined	

10. STABILITY AND REACTIVITY

Reactivity
Not reactive under normal conditions.

Chemical Stability
Stable under recommended storage conditions.

Possibility of Hazardous Reactions
None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

Conditions to Avoid
Contact with incompatible materials.

Incompatible Materials
Oxidizing agents. Reducing agent. Strong acids. Strong bases.

Hazardous Decomposition Products
Aldehydes. Carbon dioxide (CO2). Carbon monoxide. Hydrocarbons. Ketones. Nitrogen oxides (NOx). Organic acids.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Product Information

Eye Contact Causes serious eye irritation.

Skin Contact Avoid contact with skin.

Inhalation Avoid breathing vapors or mists.

Ingestion Do not taste or swallow.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
1-Dodecene 112-41-4	> 10000 mg/kg (Rat)	> 10000 mg/kg (Rat)	-
Diethylene glycol monobutyl ether 112-34-5	= 3384 mg/kg (Rat)	= 2700 mg/kg (Rabbit)	-

Information on Physical, Chemical and Toxicological Effects

Symptoms Please see section 4 of this SDS for symptoms.

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Aspiration Hazard May be fatal if swallowed and enters airways.

Numerical Measures of Toxicity
Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity
Very toxic to aquatic life with long lasting effects

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Diethylene glycol monobutyl ether 112-34-5	100: 96 h Desmodesmus subspicatus mg/L EC50	1300: 96 h Lepomis macrochirus mg/L LC50 static		2850: 24 h Daphnia magna mg/L EC50 100: 48 h Daphnia magna mg/L EC50

Persistence and Degradability
Not determined

Bioaccumulation
Not determined

Mobility
Not determined

Other Adverse Effects
Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances. DOT Ground: Combustible liquids are not regulated in non-bulk shipments per 49 CFR 173.150(f)(2).

DOT
UN/ID No NA1993
Proper Shipping Name Combustible liquid, n.o.s. (1-Dodecene)
Hazard Class Comb Liq
Packing Group III

IATA Not regulated

IMDG Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA	Listed
DSL	Listed
ENCS	Listed
IECSC	Listed
KECL	Listed
PICCS	Listed
AICS	Listed

Legend:

TSCA *- United States Toxic Substances Control Act Section 8(b) Inventory*

DSL/NDSL *- Canadian Domestic Substances List/Non-Domestic Substances List*

EINECS/ELINCS *- European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*

ENCS *- Japan Existing and New Chemical Substances*

IECSC *- China Inventory of Existing Chemical Substances*

KECL *- Korean Existing and Evaluated Chemical Substances*

PICCS *- Philippines Inventory of Chemicals and Chemical Substances*

US Federal Regulations

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No

SARA 313

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Diethylene glycol monobutyl ether - 112-34-5	112-34-5	10-15	1.0

US State Regulations

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Diethylene glycol monobutyl ether 112-34-5	X		X

16. OTHER INFORMATION

NFPA	**Health Hazards**	**Flammability**	**Instability**	**Special Hazards**
	2	2	0	Not determined
HMIS	**Health Hazards**	**Flammability**	**Physical Hazards**	**Personal Protection**
	Not determined	Not determined	Not determined	Not determined

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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 given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. 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.

End of Safety Data Sheet