

GRAYLING INDUSTRIES, INC.
MATERIAL SAFETY DATA SHEET – PURE CITRUS MASTIC REMOVER

This Material Safety Data Sheet (MSDS) conforms to the requirements of ANSI Z400.1.
THIS MSDS COMPLIES WITH 29 CFR 1910.1200 (HAZARD COMMUNICATION STANDARD)

IMPORTANT: Read this MSDS before handling & disposing of this product.

Pass this information on to employees, customers, & users of this product.

SECTION 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY

Product Name: **PURE CITRUS MASTIC REMOVER**

Product Number: 19135

MANUFACTURER:

Grayling Industries, Inc.

1008 Branch Drive

Alpharetta, GA 30004

Date Prepared: May 18, 2006

Date Superseded: January 5, 2001

EMERGENCY PHONE NUMBER:

1.800.535.5053 (Infotrac)

INFORMATION: 1.800.635.1551

SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS

	<u>CAS Number</u>
D-Limonene	5989-27-5
Nonylphenol Ethoxylate	9016-45-9

SECTION 3. HAZARDS IDENTIFICATION

RISK STATEMENTS:

R22 Harmful if swallowed

R10a Combustible (North America). Flammable (elsewhere).

SAFETY STATEMENTS:

S24/25 Avoid contact with skin and eyes

SECTION 4. FIRST AID MEASURES

Eyes Contact: For eyes, flush with plenty of water for 15 minutes and get medical attention.

Skin Contact: In case of contact with skin immediately remove contaminated clothing. Wash thoroughly with soap and water. Wash contaminated clothing before reuse.

Inhalation: After high vapor exposure, remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped give artificial respiration.

Swallowing: If swallowed, **CALL A PHYSICIAN IMMEDIATELY! DO NOT INDUCE VOMITING.** Have patient lie down and keep warm. Vomiting may lead to pneumonitis, which may be fatal.

SECTION 5. FIRE FIGHTING MEASURES

Extinguishing Media:

NFPA Class B extinguishers (Carbon Dioxide or foam) for Class II liquid fires.

Special Fire Fighting Procedures:

Water spray may be ineffective on fire, but can protect firefighters and cool closed containers.

Use fog nozzles if water is used.

Do Not Enter confined fire-space without full bunker gear.

(Helmet with face shield, bunker coats, gloves & rubber boots)

Use NIOSH approved positive-pressure self-contained breathing apparatus.

Unusual Explosion and Fire Procedures:

COMBUSTIBLE !

Keep container tightly closed.

Isolate from Oxidizers, heat, and open flame.

Closed containers may explode if exposed to extreme heat.

Applying to hot surfaces requires special precautions.

Empty container very hazardous! Continue all label precautions!

SECTION 6. ACCIDENTAL RELEASE MEASURES

Containment Techniques:

Keep unprotected personnel away. Wear appropriate personal protective equipment given in Section 8. Ventilate spill area. Stop spill at source. Dike and contain.

Clean-Up Procedures:

Clean up remainder with absorbent materials. Mop up and dispose of materials.

SECTION 7. HANDLING AND STORAGE

Handling:

Isolate from oxidizers, heat, and open flame.

Use only with adequate ventilation. Avoid breathing of vapor or spray mist.

Avoid prolonged or repeated contact with skin.

Wear OSHA Standard goggles or face shield. Consult Safety Equipment Supplier.

Wear gloves, apron, and footwear impervious to this material. Wash clothing before reuse.

Avoid free fall of liquid. Ground containers when transferring. Do not flame cut, braze, or weld. Empty container is very hazardous! Continue all label precautions!

Storage:

Do not store above 49° C / 120° F. Store large amounts in structures made for OSHA Class II Liquids. Keep container tightly closed and upright when not in use to prevent leakage.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Exposure Controls:

A respiratory protection program that meets OSHA 29 CFR 1910.134 and ANSI Z86.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

Ventilation:

Local Exhaust : Necessary
Mechanical (General) : Acceptable
Special : None
Other : None

Please refer to ACGIH Document, "Industrial Ventilation, A Manual of Recommended Practices", most recent edition, for details.

Personal Protections:

Wear OSHA Standard goggles or face shield. Consult Safety Equipment Supplier.
Wear gloves, apron, and footwear impervious to this material. Wash clothing before reuse.

Work & Hygienic Practices:

Provide readily accessible eye wash stations and safety showers.
Wash at end of each work shift and before eating, smoking, or using the toilet.
Promptly remove clothing that becomes contaminated. Destroy contaminated leather articles.
Launder or discard contaminated clothing.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid, Water-White
Odor:	Lemon
Boiling Range:	175° 175° 176°* C / 348° 348° 349°* F (*=End Point)
Auto Ignition Temperature:	260° C / 500° F (Lowest Component)
Lower Flammable Limit In Air (% by vol):	1.0
Flash Point (Test Method)	51° C / 125° F (TCC)
Flammability Classification:	Class II
Gravity @ 68/68° F / 20/20° C:	
API:	36.3
Specific Gravity (Water=1) :	0.843
Pounds/Gallon:	7.023
VOC'S (>0.44 lbs/Sq.Inch)	0.0 Vol. % / 0.0 g/L / 0.000 Lbs/Gal
TOTAL VOC's (TVOC):	99.0 Vol. % / 832.6 g/L / 6.935 Lbs/Gal
Nonexempt VOC's (CVOC):	0.0 Vol. % / 0.0 g/L / 0.000 Lbs/Gal
Hazardous Air Pollutants (HAPS):	0.0 Wt. % / 0.0 g/L / 0.000 Lbs/Gal
Vapor Pressure (mm of Hg) @20°C	2.5
Nonexempt VOC Partial Pressure (mm of Hg @ 20° C)	0.0
Vapor Density (air=1) :	4.7
Water Absorption:	Moderate
Refractive Index:	1.465
Mixed Aniline Point (Acid Insol):	44°C / 112°F

SECTION 10. STABILITY AND REACTIVITY

Stability:

Stable under normal conditions.

Conditions to Avoid:

Isolate from oxidizers, heat, and open flame.

Materials to Avoid:

Isolate from strong oxidizers, such as permanganates, chromates, and peroxides.

Hazardous Decomposition:

Carbon Monoxide, Carbon Dioxide from burning.

Hazardous Polymerization:

Will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

MATERIAL	CAS#	TWA (OSHA)	TLV (ACGIH)	HAP
D-Limonene	5989-27-5	None Known	50 ppm	NO
Nonylphenol Ethoxylate	9016-45-9	None Known	None Known	NO

This product contains no EPA Hazardous Air pollutants (HAP) in amounts > 0.1%

MATERIAL	CAS#	CEILING	STEL (OSHA / ACGIH)
		None Known	None Known

ACUTE HAZARDS

Eye & Skin Contact:

Primary irritation to skin, defatting, dermatitis.

Primary irritation to eyes, redness, tearing, blurred vision.

Liquid can cause eye irritation. Wash thoroughly after handling.

Inhalation:

Anesthetic. Irritates respiratory tract.

Accute overexposure can cause serious nervous system depression.

Vapor harmful.

Swallowing:

Harmful or fatal if swallowed.

Swallowing can cause abdominal irritation, nausea, vomiting & diarrhea.

SUB-CHRONIC HAZARDS / CONDITIONS AGGREVATED

Conditions Aggravated:

Persons with severe skin, liver, or kidney problems should avoid use.

CHRONIC HAZARDS

Cancer, Reproductive, and Other Chronic Hazards:

This product has no carcinogens listed by IARC, NTP, NIOSH, OSHA, or ACGIH, as of this date, greater, or equal to 0.1%.

SECTION 12. ECOLOGICAL INFORMATION

Mammalian Information:

No mammalian information is available on this product.

Aquatic Animal Information:

No aquatic environmental information is available on this product.

Mobility:

This material is a mobile liquid.

Degradability:

This product is completely biodegradable.

Accumulation:

Bioaccumulation of this product has not been determined.

SECTION 13. DISPOSAL CONSIDERATION

Processing, use, or contamination may change the waste management options. Recycle / dispose of, observing national, regional, state, provincial, and local health, safety, and pollution laws. If in doubt, contact appropriate agencies.

SECTION 14. TRANSPORT INFORMATION

DOT SHIPPING NAME: BULK: Terpene hydrocarbons, n.o.s. (Terpene Hydrocarbons),
Combustible liquid, UN2319, PG-III

Combustible liquid. Not DOT Regulated on trucks in containers of < 119 gallons.

Drum Label: None (Combustible Liquid)

IATA / ICAO: Terpene hydrocarbons, n.o.s. (Terpene Hydrocarbons),
3, UN2319, PG-III

IMO / IMDG: Terpene Hydrocarbons, n.o.s. (Terpene Hydrocarbons),
3, UN2319, PG-III

EMERGENCY RESPONSE GUIDEBOOK NUMBER: 128

SECTION 15. REGULATORY INFORMATION

EPA Regulation:

SARA Section 311 / 312 Hazards: Acute Health, Fire

All components of this product are on the TSCA list.

SARA Title III Section 313 Supplier Notification

This product contains the indicated <*> toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning & Community Right-to-Know Act of 1986, and of 40 CFR 372. This information must be included in all MSDS's that are copied and distributed for this material.

International Regulations:

The components of this product are listed on the chemical inventories of the following countries: Australia, Canada, Europe (EINECS), Japan, Korea, United Kingdom

SECTION 16. OTHER INFORMATION

Hazard Ratings:

Health (NFPA): 0 Health (HMIS): 1 Flammability: 2 Reactivity: 0

This information is intended solely for the use of individuals trained in the NFPA & HMIS hazard rating systems.

Employee Training:

Employees should be made aware of all hazards of this material (as stated in this MSDS) before handling it.

NOTICE

The supplier disclaims all expressed or implied warranties of merchantability or fitness for a specific use, with respect to the product or the information provided herein, except for conformation to contracted specifications.

All information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency.

Conditions of use are beyond our control, and therefore users are responsible for verifying the data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product.

Users also assume all risks in regards to the publication or use of, or reliance upon, information contained herein.

This information relates only to the product designated herein, and does not relate to its use in combination with any other material or process.

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