

SAVOGRAN COMPANY

GUM TURPENTINE

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1015

SCL SAVOGRAN.
PO Box 130
Norwood, MA 02062
Telephone: 781-762-5400
Toll Free: 800-225-9872
Fax: 781-762-1095

Date Prepared: April 11, 2005
MSDS 1015
Chemtrec 800-424-9300

MATERIAL SAFETY DATA SHEET

A. IDENTIFICATION AND EMERGENCY INFORMATION

Product Name
Gum Turpentine

Product Code
1015

Chemical Name
Gum Turpentine

CAS Number
8006-64-2

Product Appearance and Odor
Colorless liquid, typical pine odor

B. COMPONENTS AND HAZARD INFORMATION

Components	CAS No. Of Components	Approximate Concentration
Gum Turpentine	8006-64-2	100%

Hazardous Materials Identification System (HMIS)

Health	Flammability	Reactivity	Basis
2	3	0	

Recommended By Savogran

Hazard Rating	Least - 0	Slight - 1	Moderate - 2
	High - 3	Extreme - 4	

Exposure Limit for Total Product	Basis
100 PPM TWA	OSHA PEL
20 PPM TWA	ACGIH, A4, SEN TLV

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C. PRIMARY ROUTES OF ENTRY AND EMERGENCY FIRST AID PROCEDURES

Eye Contact

Promptly flush eyes with lots of running water for 15 minutes. GET MEDICAL ATTENTION PROMPTLY

Skin

Wash exposed areas with warm water and soap. Remove contaminated clothing promptly (launder before rinse). Get medical attention if irritation persists.

Inhalation

Remove victim to fresh air. Get medical attention if irritation persists or for excessive exposures.

Ingestion

GET MEDICAL HELP PROMPTLY! Stomach pumping and lavage may be required. Give edible oil or white mineral oil to drink. Do not induce vomiting. Aspiration a hazard if vomiting occurs.

D. FIRE AND EXPLOSION HAZARD INFORMATION

Flash Point (Minimum)

97⁰F

Tag closed cup

Autoignition Temperature

476⁰F

National Fire Protection Association (NFPA) - Hazard Identification

Health	Flammability	Reactivity
1	3	0

Recommended by the National Fire Protection Association
Hazard Rating Least – 0 Slight – 1 Moderate – 2
 High – 3 Extreme – 4

Handling Precautions

This liquid is volatile and gives off invisible vapors. Either the liquid or vapor may settle in low areas or travel some distance along the ground or surface to ignition sources where they may ignite or explode.

Keep product away from ignition sources, such as heat, sparks, pilot lights, static electricity, and open flames.

Flammable or Explosive Limits (Approximate Percent By Volume In Air

Estimated values: Lower flammable limit 1.0% Upper flammable limit 7.0%

Extinguishing Media and Fire Fighting Procedures

Foam, water, spray (fog), dry chemical, carbon dioxide and vaporizing liquid type extinguishing agents may all be suitable for extinguishing fires involving this type of product, depending on size or potential size of fire and circumstances related to the situation. Plan fire protection and response strategy through consultation with local fire protection authorities or appropriate specialists.

The following procedures for this type of product are based on the recommendations in the National Fire Protection Association's "Fire Protection Guide on Hazardous Materials", Eighth Edition (1984):

Use dry chemical, foam or carbon dioxide to extinguish the fire. Water may be ineffective, but water should be used to keep fire exposed containers cool. If a leak or spill has ignited, use water spray to disperse the vapors and to protect men attempting to stop a leak. Water spray may be used to flush spills away from exposures. Minimize breathing of gases, vapor, fumes or decomposition products. Use supplied air breathing equipment for enclosed or confined spaces or as otherwise needed.

NOTE: The inclusion of the phrase "water may be ineffective" is to indicate that although water can be used to cool and protect exposed material, water may not extinguish the fire unless used under favorable conditions by experienced fire fighters trained in fighting all types of flammable liquid fires.

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Decomposition Products Under Fire Conditions

Carbon monoxide/and /or carbon dioxide

“Empty” Container Warning

“Empty” containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to clean since residue is difficult to remove. “Empty” drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations. For work on tanks refer to Occupational Safety and Health Administration regulations, ANSI Z49.a, and other governmental and industrial references pertaining to cleaning, repairing, welding, or other contemplated operations.

E. HEALTH AND HAZARD INFORMATION

Variability among Individual

Health studies have shown that many petroleum hydrocarbons and synthetic lubricants pose potential human health risks which may vary from person to person. As precaution, exposure to liquids, vapors, mists or fumes should be minimized.

Effects of Overexposure (Signs and Symptoms of Exposure)

Eye Contact:

Is irritating and damaging. It can cause conjunctivitis or corneal burns. Vapors can irritate the eyes at 175 ppm.

Skin Contact:

Can cause dermatitis or chemical burns. It can penetrate the skin to product systemic effects

Inhalation (Breathing)

Vapors or mist is irritating and can product headaches, dizziness, vertigo, chest pain, bronchitis, pulmonary edema, cyanosis, narcosis, and accelerated pulse.

Ingestion:

Can produce nausea, serious, illness or even death. (Mean, lethal dose, adult, 4-6 ox)

Toxicology:

Turpentine

Oral (human) $LDL_0=500$ mg/kg

Inhalation (human) $LCL_0=175$ ppm (irritant effects)

Pre-Existing Medical Conditions Which May Be Aggravated By Exposure

None Known

F. PHYSICAL DATA

The following data are approximate or typical values and should not be used for precise design purposes.

Boiling Range

315 - 338⁰F

Vapor Pressure

4 mm Hg @ 20⁰C

Specific Gravity (15.6C/15.6C)

0.860

Vapor Density (AIR=1)

4

Molecular Weight

N/A

Percent Volatile by Volume

>99%

PH

Not Applicable

Evaporation Rate @ ATM.AND 25C (77F)

(n-Butyl Acetate-1)

Unknown but expected to be <1

Pour, Congealing or Melting Point

N/A

Solubility in Water @ 1 ATM.AND 25C (77F)

Insoluble

Viscosity

Not Applicable

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G. REACTIVITY

Hazardous Polymerization may occur from contamination with acids. Avoid acids and strong oxidizing agents.

H. ENVIRONMENTAL INFORMATION

Steps to be taken in case material is released or spilled.

Shut off and eliminate all ignition sources. Keep people away. Recover free product. Add sand, earth or other suitable absorbent to spill area. Minimize breathing vapors. Minimize skin contact. Ventilate confined spaces. Open all windows and doors. Keep product out of sewers and watercourses by diking or impounding. Advise authorities if product has entered or may enter sewers, watercourses, or extensive land areas.

Assure conformity with applicable governmental regulations. Continue to observe precautions for volatile, combustible vapors from absorbed material. Handling equipment must be grounded to prevent sparking.

The following information may be useful in complying with various state and federal laws and regulations under various environmental statutes.

Reportable quantity (RQ), EPA Regulation 40 CFR 302 (Cercla Section 102)

No RQ for Turpentine This product contains approximately 100% Turpentine

Toxic Chemical Release Reporting, EPA Regulation 40 CFR 372 (SARA Section 313)

This product contains approximately 100% Turpentine.

Hazardous Chemical Reporting, EPA Regulation 40 CFR 370 (SARA Sections 311=312)

	Acute	Chronic	Fire	Pressure	Reactive	Not Applicable
EPA Hazard Classification Code:	Hazard	Hazard	Hazard	Hazard	Hazard	
	XXX	XXX	XXX			

I. PROTECTION AND PRECAUTIONS

Ventilation

Use only with ventilation sufficient to prevent exceeding recommended exposure limit or buildup of explosive concentrations of vapor in air. No smoking, flame or other ignition sources. Use explosion-proof ventilation as required to control particulate concentrations.

Respiratory Protection

Use supplied air respiratory protection in confined or enclosed spaces, if needed.

Protective Gloves

Use chemical-resistant gloves, if needed to avoid prolonged or repeated skin contact.

Eye Protection

Use splash goggles or face shield when eye contact may occur.

Other Protective Equipment

Use chemical resistant apron or other impervious clothing, if needed to avoid contaminating regular clothing, which could result in prolonged or repeated skin contact.

Work Practices/Engineering Controls

Keep containers closed when not in use. Do not store near heat, sparks, flame or strong oxidants. To prevent fire or explosion risk from static accumulation and discharge, effectively ground product transfer system in accordance with the National Fire Protection Association standard for petroleum products.

In order to prevent fire or explosion hazards, use appropriate equipment.

Information on electrical equipment appropriate for use with this product may be found in the latest edition of the National Electrical Code (NFPA-70). This document is available from the National fire Protection Association, Batterymarch Park, Quincy, Massachusetts 02269.

Person Hygiene

Minimize breathing vapor or mist. Avoid prolonged or repeated contact with skin. Remove contaminated clothing; launder or dry-clean before re-use. Remove contaminated shoes and thoroughly clean and dry before re-use. Cleanse skin thoroughly after contact, before breaks and meals, and at end of work period. Product is readily removed from skin by waterless hand cleaners followed by washing thoroughly with soap and water. Eye wash fountains and safety showers should be available for emergency.

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J. TRANSPORTATION AND OSHA RELATED LABEL INFORMATION

Transportation Incident Information

For further information relative to spills resulting from transportation incidents, refer to latest Department of Transportation Emergency Response Guidebook for Hazardous Materials Incidents, DOT 5800.3

DOT Identification Number

Turpentine/3/UN1299/PGIII

OSHA Required Label Information

In compliance with hazard and right-to-know requirements, the following OSHA Hazard Warnings should be found on a label, bill of lading or invoice accompanying this shipment.

DANGER

FLAMMABLE

Note: Product label will contain additional non-OSHA related information.

The information and recommendations contained herein are to the best of Savogran knowledge and belief, accurate and reliable as of the date issued. Savogran does not warrant or guarantee their accuracy or reliability, and Savogran shall not be liable for any loss or damage arising out of the use thereof.

The information and recommendations are offered for the user's consideration and examination, and it is the user's responsibility to satisfy itself that they are suitable and complete for its particular use. If buyer repackages this product, legal counsel should be consulted to insure proper health, safety and other necessary information is included on the container.

The environmental information included under section H hereof as well as the hazardous materials identification system (HMIS) and National Fire Protection Association (NFPA) ratings have been included by Savogran in order to provide additional health and hazard classification information. The ratings recommended are based upon the criteria supplied by the developers of these rating systems, together with Savogran interpretation of the available data.