

MATERIAL SAFETY DATA SHEET

NFPA RATING: Health = 2 Flammability = 2 Reactivity = 0
 HMIS RATING: Health = 1/2 Flammability = 2 Reactivity = 0

SECTION I - IDENTITY AND MANUFACTURER'S INFORMATION

(0858B)

Manufacturer's Name: HILLYARD INDUSTRIES

Product Name: LIQUID GUM-GO

Address: 302 North Fourth Street

Date Prepared: June 25, 1998

St. Joseph, MO 64501

Prepared by: Regulatory Affairs Department

Emergency Telephone No.: (800) 424-9300 (Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident involving chemicals.)
 Other information calls: (816)233-1321(Ext. 2303)

SECTION II - INGREDIENTS/IDENTITY INFORMATION

Components

(Specific Chemical Identity:

Common Name(s)

Petroleum distillate (iso alkanes)

d-Limonene

CAS#

OSHA PEL

ACGIH
TLVOTHER LIMITS
RECOMMENDED

%

64741-65-7

100 ppm*

100ppm*

200 ppm* STEL

83-88

5989-27-5

not established

not

N/A

12-17

established

* Not established for this CAS #; use Stoddard solvent CAS #8052-41-3 for PEL and TLV. CAS #8052-41-3 is regulated by OSHA and the following states: FL, IL, LA, MA, NJ, PA, RI.
 V. O. C. = 767.7 gm/l.; V.O.S. = 6.4 lbs./gallon

SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: > 300° F

Specific Gravity (H₂O = 1): 25°C=0.8 39° C=0.8

Vapor Pressure (mm Hg): 1.2

Percent Volatile by Volume (%): 99.9%

Vapor Density (AIR = 1): 5.1

Evaporation Rate (ethyl ether = 1): slower than 1

Solubility in water: negligible

Appearance and Odor: thin, clear liquid; orange odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash point: 130°F (T.C.C.) average

Flammable Limits: LEL = 1% UEL = N/A-mixture

Extinguishing Media: Carbon dioxide, dry chemical foam. Use NFPA Class B Extinguishers.

Special Fire Fighting Procedures: Treat as any petroleum solvent fire. Avoid spreading liquid and fire by water. Wear full protective equipment including self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: Keep container closed and isolated from heat, electrical equipment, sparks and flame. Do not expose to heat or store above 120°F (49°C). Do not spray near ignition sources such as heat, sparks, open flames, etc.

SECTION V - PHYSICAL HAZARDS

Stability: Stable

Conditions to Avoid: Elevated temperatures

Incompatibility (Materials to Avoid): Avoid contact with strong acids and strong oxidizing agents.

Hazardous Decomposition Products or Byproducts: None under normal conditions. Thermal decomposition may produce organic acids, carbon dioxide and carbon monoxide.

Hazardous Polymerization: Will not occur

Conditions to Avoid: N/A

SECTION VI - HEALTH HAZARD DATA

Routes of entry: Inhalation?

Yes

Skin? Yes

Ingestion?

Yes

HEALTH HAZARDS (1. Acute and 2. Chronic)

1. Product is a primary skin irritant per Federal Hazardous Substance Act; however it is not an eye irritant per the Federal Hazardous Substance Act testing procedure. Acute oral limit test produced no mortality at 5 gm/kg. Harmful if swallowed. Causes nose and throat irritation. May affect the brain or nervous system causing dizziness, headache or nausea. Causes nose and throat irritation. Prolonged overexposure can cause skin irritation. Notice: Reports have associated repeated and prolonged occupational overexposure to solvent with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. 2. None

Chemical listed as Carcinogen or Potential Carcinogen:

National Toxicology Program =

No

I.A.R.C. Monographs =

No

OSHA =

No

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

Signs and Symptoms of Exposure: Overexposure may cause nose and throat irritation, and skin irritation, liver damage, kidney damage. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea

Medical Conditions Generally Aggravated by Exposure: Skin problems such as industrial dermatitis. Individuals with chronic respiratory disorders such as asthma, chronic bronchitis, emphysema, etc., may be adversely affected by exposure to any vapor or airborne particulate matter.

SECTION VI – HEALTH HAZARD DATA continued

Emergency and First Aid Procedures: If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately. In case of eye contact immediately flush with plenty of water for at least 15 minutes, if irritation persists get medical attention; for skin, wash thoroughly with soap and water; get medical attention immediately. If swallowed, call a physician immediately. Never give anything by mouth to an unconscious person.

SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled: If spilled, contain spilled material and remove with inert absorbent and non-sparking tools. Remove all sources of ignition (flames, hot surfaces; electric, static or friction sparks). Avoid breathing vapors. Ventilate area. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks, and flames. Follow label warnings until container is thoroughly cleaned or destroyed. Keep container closed when not in use. Do not let spilled or leaking material enter watercourse. Notify authorities if liquid enters nearby water intakes. Notify local health and wildlife officials. Do not smoke when working with product. Do not pick up solution with automatic scrubber or wet pick-up vacuum.

Waste Disposal Method: Dispose of contaminated absorbent, container and unused contents in accordance with Federal, State and Local regulations. Incinerate regulated quantities in an approved facility; do not incinerate closed container. EPA Hazardous Waste (per RCRA Classification: Ignitable Liquid (40 CFR 261.21)).

Precautions To Be Taken In Handling And Storing: Keep containers closed when not in use. Empty container may retain hazardous residue and explosive vapors; do not pressurize, cut, weld, braze, solder, drill or grind on or near container. Follow label warnings until container is thoroughly cleaned or destroyed. Do not expose to heat or store at temperatures above 120°F (49°C).

Other Precautions: Keep away from heat and flame. Prevent build-up of vapors by opening all windows and doors to achieve cross-ventilation. USE ONLY WITH ADEQUATE VENTILATION. Do not breathe vapors or spray mist. Ensure fresh air entry during application and drying. If you experience eye watering, headache or dizziness or if air monitoring demonstrates vapor / mist levels are above applicable limits, wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during and after application. Follow respirator manufacturer's directions for respirator use. Close container after each use. Spray away from face. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Do not take internally. This product contains no reportable quantities of toxic chemicals subject to reporting requirements of Section 313 of SARA Title III Emergency Planning and Community Right to Know Act of 1986 and of 40 CFR Part 372.

SECTION VIII – CONTROL MEASURES:

Respiratory Protection (Specify Type): Wear appropriate, properly fitted respirator (NIOSH and MSHA approved) unless air monitoring demonstrates vapor or mist levels are below applicable limits.

Ventilation: At least 10 air changes per hour recommended.

Local Exhaust = Recommended **Mechanical (General) =** Recommended **Special =** N/A **Other =** N/A

Protective Gloves: Solvent impervious rubber gloves

Eye Protection: None required when used according to label directions.

Other Protective Clothing or Equipment: Solvent impermeable clothing

Work / Hygienic Practices: Wash clothing before reuse. Thoroughly clean contaminated shoes.

SECTION IX - TRANSPORTATION INFORMATION:

APPLICABLE REGULATIONS: CFR = No ; IMCO = Yes ; IATA = Yes.

DOT SHIPPING DESCRIPTION ON BILL OF LADING:

Proper shipping name: Cleaning Compound

UN No.: not applicable **Limited Qty.:** not applicable **Hazard Class:** not applicable

Labels required: not required **DOT Exception:** not applicable

IMCO AND IATA SHIPPING DESCRIPTION ON BILL OF LADING:

Proper shipping name = FLAMMABLE LIQUID, N.O.S. (Petroleum distillate; d-Limonene), 3.3, UN1993, III

Package Marking = FLAMMABLE LIQUID, N.O.S. (Petroleum distillate; d-Limonene), UN1993

Package Label = Flammable **Hazard Class =** 3.3 **Package Group =** III

EPA Hazardous waste characteristics: Ignitability = yes; Corrosivity = not applicable; Reactivity = not applicable

DISCLAIMER OF WARRANTIES

NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OF ANY NATURE ARE MADE WITH RESPECT TO THE PRODUCT(S) OR INFORMATION CONTAINED IN THIS MATERIAL SAFETY DATA SHEET. The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate. THE BUYER OR USER ASSUMES ALL RISKS ASSOCIATED WITH THE USE, MISUSE OR DISPOSAL OF THIS PRODUCT. THE BUYER OR USER IS RESPONSIBLE TO COMPLY WITH ALL FEDERAL, STATE OR LOCAL REGULATIONS CONCERNING THE USE, MISUSE OR DISPOSAL OF THESE PRODUCTS.