

BSL 9409

MATERIAL SAFETY DATA SHEET

This MSDS complies with OSHA's Hazard Communication Standard 29 CFR 1910.1200 and OSHA Form 174

IDENTITY AND MANUFACTURER'S INFORMATION

NFPA Rating: Health-1; Flammability-4; Reactivity-0; Special-0 Manufactured For: KELSAN INC Address: 5109 NATIONAL DR Address: KNOXVILLE TN 37914 Phone:		HMIS Rating: Health-1; Flammability-4; Reactivity-0; Personal Protection-B DOT Hazard Classification: ORM-D Identity (trade name as used on label): <u>Gum Remover II</u> MSDS Number: A00483 Revision: 4 Date Prepared: 02/23/00 Prepared By: ES/CH Information Calls: (770)422-2071	
EMERGENCY RESPONSE NUMBER: NOTICE: JUDGEMENT BASED ON INDIRECT TEST DATA			

SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION

COMPONENTS-CHEMICAL NAMES AND COMMON NAMES (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)	CAS Number	SARA III LIST	OSHA PEL (ppm)	ACGIH TLV (ppm)	Carcinogen Ref. Source **
ISOBUTANE / PROPANE BLEND	75-28-5	No	800	800	d
	74-98-6	No	1000	1000	d

SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: (concentrate only) = -43.7°F	Specific Gravity (H₂O=1): Concentrate Only = 0.5379
Vapor Pressure: PSIG @ 70°F (Aerosols): 70	Vapor Pressure (Non-Aerosols): (mm Hg and Temperature): N/A
Vapor Density (Air = 1): Concentrate only = greater than 1.5	Evaporation Rate (BuAc = 1): Faster
Solubility in Water: Slight	Water Reactive: No
Appearance and Odor: Clear, odorless spray.	

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY as per USA FLAME PROJECTION TEST (aerosols) EXTREMELY FLAMMABLE	Auto Ignition Temperature N/E	Flammability Limits in Air by % in Volume: % LEL: 2.0 % UEL: 10.0
FLASH POINT AND METHOD USED (non-aerosols): -156 °F	EXTINGUISHER MEDIA: Foam, dry chemical, carbon dioxide.	
SPECIAL FIRE FIGHTING PROCEDURES: Cool containers with water. Wear Self-contained breathing apparatus.		
Unusual Fire & Explosion Hazards: Do not expose aerosols to temperatures above 130°F or the container may rupture.		

SECTION 4 - REACTIVITY HAZARD DATA

STABILITY [X] STABLE [] UNSTABLE	HAZARDOUS POLYMERIZATION [] WILL [X] WILL NOT OCCUR
Incompatibility (Mat. to avoid): Strong oxidizing agents.	Conditions to Avoid: Open flame, welding arcs, heat, sparks, or any source of ignition.
Hazardous Decomposition Products: CO, CO ₂ .	

SECTION 5 - HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: [X] INHALATION [] INGESTION [] SKIN ABSORPTION [] EYE [] NOT HAZARDOUS
ACUTE EFFECTS:
Inhalation: Product is an asphyxiant at very high concentrations. Excessive inhalation of vapors can be harmful and may cause headache, disorientation, rapid respiration, nausea, anesthetic effects and possible unconsciousness. Vapors are heavier than air and displace oxygen required for breathing.
Eye Contact: May cause burns and frostbite.
Skin Contact: May cause burns and frostbite.
Ingestion: Unlikely route of exposure. Gas under normal (usual) circumstances.
CHRONIC EFFECTS: Unknown.
Medical Conditions Generally Aggravated by Exposure: May aggravate existing eye, skin, or upper respiratory conditions.

EMERGENCY FIRST AID PROCEDURES

Eye Contact: Flush immediately with fresh water for at least 15 minutes while holding eyelids open. Remove contact lenses if worn. Seek medical attention immediately.
Skin Contact: Treat burned or frostbitten skin by flushing or immersing affected areas in lukewarm water. If skin is not burned, keep warm and stimulate circulation with massage. Seek medical attention immediately.
Inhalation: Remove to fresh air. Resuscitate if necessary. Get medical attention. Give oxygen.
Ingestion: Unlikely route of exposure.

SECTION 6 - CONTROL AND PROTECTIVE MEASURES

Respiratory Protection (specify type): If vapor concentration exceeds TLV, use respirator approved by NIOSH to be used in a positive pressure mode.
Protective Gloves: Rubber gloves recommended.
Eye Protection: Safety glasses recommended.
Ventilation Requirements: Adequate ventilation to keep vapor concentration below TLV.
Other Protective Clothing & Equipment: Self-contained respirator should be available for non-routine and emergency situations.
Hygienic Work Practices: Wash with soap and water before handling food. Remove contaminated clothing.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken If Material Is Spilled Or Released: Isolate hazard area and deny entry. Remove all ignition sources. Ventilate area to disperse vapors. If liquid gas has not ignited, disperse with water or by flooding.
Waste Disposal Methods: Aerosol cans when vented to atmospheric pressure through normal use pose no disposal hazard.
Precautions To Be Taken In Handling & Storage: Do not puncture or incinerate containers. Do not store at temperatures above 130°F.
Other Precautions &/or Special Hazards: KEEP OUT OF REACH OF CHILDREN. Avoid food contamination. Avoid breathing vapors. Avoid contact with skin or eyes.

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind.

** Chemical Listed as Carcinogen or Potential Carcinogen. [a] NTP [b] IARC Monograph [c] OSHA [d] Not Listed [e] Animal Data Only
 THIS MSDS IS CURRENT AS OF March 25, 2003. The DATE PREPARED section is the original date assembled and remains current until a change is necessary. This is tracked internally at the manufacturer by these date codes and therefore must remain as the originating date.

Distributed By: KEL-SAN, INC.
 5109 NATIONAL DR., KNOXVILLE, TN 37914

MATERIAL SAFETY DATA SHEET

NFPA RATING: Health = 2 Flammability = 2 Reactivity = 0

HMIS RATING: Health = 2 Flammability = 2 Reactivity = 0

SECTION I - IDENTITY AND MANUFACTURER'S INFORMATION

Manufacturer's Name: HILLYARD INDUSTRIES

Product Name: 450 GYM FINISH (0981A)

Address: 302 North Fourth Street

Date Prepared: July 9, 2003

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. 8285)

<http://www.hillyard.com>

SECTION II - INGREDIENTS/IDENTITY INFORMATION

Components

(Specific Chemical Identity:

Common Name(s)	CAS#	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED	%
Petroleum distillate (Stoddard Solvent) ⁽¹⁾	8052-41-3	100 ppm	100 ppm	N/A	25-30
Aliphatic hydrocarbon petroleum naphtha	64742-47-8	100 ppm*	100 ppm*	N/A	12-17
Petroleum distillate	64742-95-6	100 ppm*	100 ppm*	N/A	1-5
Urethane alkyd resin	68514-58-9	not established	not established	N/A	---
Uralkyd resin (NJ & PA trade secret)	41-0177680-5000345P	not established	not established	N/A	---

(1) Regulated by OSHA and the following states: FL, IL, LA, MA, NJ, PA, RI

* Not established for this CAS #; use Stoddard solvent (CAS #8052-41-3) for PEL and TLV.

V.O.C. = Less than 450 gm./l.; V.O.S. = 3.69 lbs./gal.

SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: 335°F	Specific Gravity (H ₂ O = 1): 25°C = 0.89 & 39°C = 0.89
Vapor Pressure (mm Hg.): 2.8	Percent Volatile by Volume (%): 59.7
Vapor Density (AIR = 1): 4.8	Evaporation Rate (ethyl ether = 1): slower than 1
Solubility in Water: negligible	Appearance and Odor: Clear, light amber liquid; mineral spirit odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash point: 100°F min. (Tag Closed Cup) **Flammable Limits:** LEL = 0.9 UEL = no data

Extinguishing Media: Flammable Class II: Use foam, carbon dioxide, dry chemical fire fighting apparatus.

Special Fire Fighting Procedures: Full protective equipment including self-contained breathing apparatus. Water may be used to cool containers to prevent possible pressure buildup and autoignition or explosion when exposed to extreme heat. Notify authorities if liquid enters sewer and public waters. Dike fire control water for later disposal (see Section VII).

Unusual Fire and Explosion Hazards: Keep container closed and isolated from heat, electrical equipment, sparks and flame. Liquid runoff to sewers may create fire/explosion hazard. Vapors may accumulate in confined spaces such as sewers, pits or sumps or inadequately ventilated areas. Heat or fire may cause container to explode. Never weld or use cutting torch on or near package.

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: When exposed to fire, produces organic acids, carbon monoxide and carbon dioxide.

Hazardous Polymerization: Will not occur **Conditions to Avoid:** None known to Hillyard

SECTION VI - HEALTH HAZARD DATA

Routes of entry: Inhalation? Yes Skin? Yes Ingestion? No

HEALTH HAZARDS (1. Acute and 2. Chronic)

1. Causes skin, nose and throat irritation. Product is primary skin irritant per Federal Hazardous Substance Act, Code of Federal Regulations 15, chapter IIc, paragraph 1500.41. It is not an eye irritant per FHSA, CFR 15, chapter. IIc, paragraph 1500.42.
2. May cause defatting of skin and dermatitis. Prolonged contact with skin may produce skin corrosion. Harmful if inhaled. Chronic overexposure leads to central nervous system depression and permanent brain and nervous system damage.

Chemical listed as Carcinogen or Potential Carcinogen:

National Toxicology Program = No I.A.R.C. Monographs = No OSHA = No

SECTION VI -- HEALTH HAZARD DATA cont.

Signs and Symptoms of Exposure: Excess inhalation may irritate nose and throat. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea; however, product did not induce mortality following oral administration at 5.0 g/kg.

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. Acute inhalation studies of product at 17.1 mg/l. for 1 hour produced no abnormalities.

Emergency and First Aid Procedures: In case of contact, immediately flush eyes and skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean contaminated shoes. If affected by inhalation of vapor, remove to fresh air. If swallowed get medical attention; consult a physician or poison control center immediately.

SECTION VII -- PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled: Eliminate sources of ignition (flames, hot surfaces; electric, static or friction sparks); ventilate area; avoid breathing of vapors; absorb with floor dry or similar inert material. Sweep or scrape up and put in appropriate container. 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.

Waste Disposal Method: Dispose of in accordance with local, county, state and federal regulations. Incinerate regulated quantities in approved facility; do not incinerate closed container.

Precautions To Be Taken In Handling And Storing: Keep container 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.

Other Precautions: USE WITH ADEQUATE VENTILATION. Avoid breathing vapors or spray mist. Open windows and doors, use exhaust fans or other means to insure fresh air entry during application and drying. Refer to OSHA Standard 29 CFR 1910.94 for technical guidelines on keeping air contamination below acceptable exposure limits. Avoid contact with eyes, skin and clothing. Do not take internally. This product contains no reportable quantities of toxic chemicals subject to reporting requirements of EPA Sec. 313 of SARA Title III Emergency Planning and Community Right to Know Act of 1986 and 40 Code of Federal Regulations - Part 372.

SECTION VIII -- CONTROL MEASURES

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

Ventilation: At least 10 air chgs./hr. recommended

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

Protective Gloves: Impervious rubber gloves **Eye Protection:** None required

Other Protective Clothing or Equipment: Non-absorbent protective clothing. If you experience eye watering, headache or dizziness, increase fresh air, wear respiratory protection or leave the area.

Work / Hygienic Practices: Wash thoroughly after handling.

SECTION IX - TRANSPORTATION INFORMATION

Applicable regulations: CFR = no IMCO = yes IATA = yes.

Proper shipping name for air and foreign water: Paint, 3, UN1263, III

Proper shipping name for highway: Varnish;

UN No.: not applicable for highway **Limited Qty.:** not applicable **Hazard class:** not applicable for highway

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

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

DISCLAIMER OF WARRANTIES

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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.

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