

MATERIAL SAFETY DATA SHEET

1.0 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product: STRIP EASE PAINLESS ADHESIVE REMOVER

General Use/Description: Adhesive Remover

Manufacturer: Oakhurst Company

Emergency Telephone Number: 800-831-1135
(Normal bus. hours)

Address: 3000 Hempstead Turnpike
Levittown, NY 11756-1338

Telephone Number for Information: 800-831-1135
(Normal bus. hours)

Date Revised: 6-20-96

**CHEMTREC CHEMICAL TRANSPORTATION EMERGENCY
TELEPHONE NO.: 800-424-9300; D.C.: 202-483-7616**

**NATIONAL RESPONSE CENTER
TELEPHONE NO. 800-424-8802; D.C. 202-426-2675**

2.0 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS Number	% Weight	OSHA Permissible Exposure Limit (TWA)	ACGIH Threshold Limit Value (TWA)
Isopropyl Alcohol	67-63-0	74	980 mg/m ³ (400 ppm)	983 mg/m ³ (400 ppm) STEL - 1230 mg/m ³ (500 ppm)
1 Methyl-para Isopropenyl-1 Cyclohexene	NIF	10	Not established	Not established
Inert ingredients	--	Balance	Not applicable	Not applicable

TWA - Values given are 8-hour time-weighted averages, unless otherwise specified.

ppm - Parts per million.

STEL - Short-term exposure limit.

NIF - No Information Found

3.0 HEALTH HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Irritating to eyes, skin, and mucous membranes. Toxic if ingested. Intentional misuse by deliberately inhaling contents may be harmful or fatal.

Route(s) of Entry: Inhalation: Yes Skin: Yes Ingestion: Yes Other: Eyes

POTENTIAL HEALTH EFFECTS:

Acute Effects of Overexposure

Eye contact: Liquid or vapor will cause mild irritation. Symptoms may include burning, tearing, and redness. Can cause corneal burns and damage.

Skin contact: Mild irritation. Prolonged or repeated exposure may cause defatting. Narcosis may occur if high levels are absorbed through the skin (prolonged contact with large quantities of product).

Inhalation: Irritation to respiratory tract and other mucous membranes. Central nervous system effects may occur. Symptoms include flushing, pulse rate decreases, blood pressure lowering, anesthesia, narcosis, headache, dizziness, mental depression, hallucinations, distorted perceptions, dyspnea, respiratory depression, nausea or vomiting.

Ingestion: Moderately toxic by ingestion. Flushing, pulse rate decreases, blood pressure lowering, anesthesia, narcosis, headache, dizziness, mental depression, hallucinations, distorted perceptions, dyspnea, respiratory depression, nausea or vomiting. The single lethal dose of isopropyl alcohol for a human adult is about 250 mL, although as little as 100 mL can be fatal.

Chronic Effects of Overexposure:

Prolonged exposure may cause damage to skin, eyes, lungs, and other mucous membranes. Dermatitis and defatting of skin may occur. Teratogenic and reproductive effects have been encountered in experimental animals at high levels of exposure and ingestion (for supporting toxicological data, see SECTION 11.0 TOXICOLOGICAL INFORMATION).

Carcinogenicity: NTP: No IARC: No OSHA: No

Medical Conditions Generally Aggravated by Exposure: Preexisting diseases of the lungs, skin, eyes, and other mucous membranes.

4.0 FIRST AID MEASURES

Inhalation: If large amounts are breathed, move the exposed person to fresh air at once. If breathing has stopped, perform artificial respiration. Keep the affected person warm and at rest. Get medical attention as soon as possible.

Eye Contact: Immediately wash the eyes with copious amounts of water, occasionally lifting the lower and upper lids. Get medical attention immediately. Contact lenses should not be worn while using material.

Skin Contact: Remove contaminated clothing (if applicable) and flush the contaminated skin with water promptly. If irritation persists, get medical attention.

Ingestion: Get medical attention immediately.

5.0 FIRE FIGHTING MEASURES

Flash Point (Method Used): 76 °F (EPA SW-846 method 1010)

Flammable Limits:	% Volume in Air		
LEL:	2.5%	UEL:	12%

Autoignition Temperature: Not available for product; Isopropyl alcohol - 852 °F.

General Hazard: Product flammable, can form explosive mixtures at temperatures at or above the flash point. Vaporization of isopropyl alcohol from product into a confined space or poor ventilation may be susceptible to ignition in the presence of an ignition source. When heated to decomposition material emits acrid smoke and irritating fumes. Isopropyl alcohol can react vigorously with oxidizing materials.

Fire Fighting Instructions: Use water fog, carbon dioxide, dry chemical, or alcohol foam for localized fire. Cool fire-exposed containers with water.

Fire Fighting Equipment: Self-contained breathing apparatus and full turn out gear.

Hazardous Combustion Products: Acrid/Irritating smoke, oxides of carbon, and various hydrocarbons due to incomplete combustion.

NFPA Rating: Health: 1 Flammability: 3 Reactivity: 0

6.0 ACCIDENTAL RELEASE MEASURES

Steps to be Taken in Case Material is Released or Spilled: Absorb on vermiculite, floor absorbent or other absorbent material. Spill and contaminated material should be placed into a compatible, appropriately labeled, and sealed container. Dispose of properly. Wear eye and skin protection during clean up. Avoid contact with product and inhalation of fumes as much as possible, wearing personal protective equipment if appropriate. Comply with federal, state, and local regulations regarding reporting of spills. Dispose of in accordance with applicable federal, state, and local regulations.

7.0 HANDLING AND STORAGE

Storage Temperature and Pressure: Store in a cool, dry, well-ventilated area at ambient pressure.

General: Containers holding product may be hazardous when emptied. Since emptied containers retain product residues, all hazard precautions given in this MSDS should be observed. It is recommended that all body surface contact, including that arising from contaminated clothing or environment, be prevented. Keep containers capped when not in use. If appropriate, wear personal protective equipment. Do not puncture or incinerate container.

8.0 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Ventilation - Local and/or general ventilation, as needed, to maintain employee exposures to below applicable OSHA and ACGIH exposure limits (see SECTION 2.0, COMPOSITION INFORMATION ON INGREDIENTS, for exposure limits).

Respiratory Protection: Use an appropriate NIOSH-approved respirator if airborne contaminant concentrations exceed applicable exposure limits (see SECTION 2.0, COMPOSITION INFORMATION ON INGREDIENTS, FOR EXPOSURE LIMITS), or other industry standards or guidelines on exposure. If respiratory protection is required, all appropriate requirements as set forth in 29 CFR 1910.134 must be met. A competent health professional should be consulted for proper respirator selection.

Protective Gloves: Wear gloves of suitable chemical resistant material in order to prevent unnecessary skin contact.

Eye Protection: Wear chemical splash goggles while handling product.

Other Protective Clothing or Equipment: Clothing that protects the skin from contact with liquid. Wash contaminated clothing before reuse.

9.0 PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: 180.3 °F (isopropyl alcohol)
Vapor Pressure (mm Hg): 33 @ 68 °F (isopropyl alcohol)
Vapor Density (AIR = 1): 2.07 (isopropyl alcohol)
Melting Point: Not applicable

Freezing Point: Less than 32 °F
Specific Gravity (H₂O = 1): Less than 1
Evaporation Rate: Slower than ether
Solubility in water: 90%

Appearance and Odor: Opaque liquid, citrus odor

10.0 STABILITY AND REACTIVITY

Stability: Product is stable at ambient temperature and pressure.

Conditions to avoid: Contact of product with incompatible materials. Heat or high temperature may cause acid/irritating vapors to be emitted. Vapors of isopropyl alcohol may develop a flammable atmosphere in confined or poorly ventilated areas.

Incompatible Materials: Strong oxidizing agents.

Isopropyl alcohol ignites on contact with chromium trioxide and potassium tert-butoxide (after a delay); Vigorous reaction with aluminum (after a delay). Reacts violently with mixture of hydrogen and palladium; nitroform; oleum; COCl₂; Aluminum trisopropoxide.

Hazardous Decomposition Products: Extreme heat and high temperature could cause the release of carbon dioxide, carbon monoxide, and undetermined organic compounds.

Hazardous Polymerization: Will Not Occur

11.0 TOXICOLOGICAL INFORMATION

Toxicity data for isopropyl alcohol (IPA):

- Human ingestion data: oral-human toxic dose low - 223 mg/kg, caused central nervous and cardiovascular systemic effects; oral-man lethal dose threshold - 5272 mg/kg.
- 500 mg of IPA applied to the skin of a rabbit developed mild irritation. 10 mg of IPA administered to the eye of a rabbit developed moderate irritation.
- Experimental animal reproductive and teratogenic effects from inhaling and ingesting high levels of IPA have been encountered. Inhalation study range, female rat: 3500 - 10000 ppm administered for 7 hours, 1-19 days after conception, teratogenic and reproductive effects; Ingestion study, female rat: 5040 mg/kg administered 1-20 days after conception, reproductive effects. Ingestion study, rat (unspecified sex): 11340 mg/kg 45 days prior to conception, reproductive effects.
- Experimental skin exposure: Rabbit, lethal dose 50% - 12800 mg/kg.

Note: Other toxicity data exists in the literature.

12.0 ECOLOGICAL INFORMATION

Aquatic Toxicity Rating: No data available.

Product consists mostly of isopropyl alcohol which is expected to be toxic to aquatic species. The disinfection and toxic properties of isopropyl alcohol may cause a sewage treatment works upset if large quantities were discharged to the sanitary sewer.

13.0 DISPOSAL CONSIDERATIONS

Waste Disposal Method: If product as shipped becomes a solid waste, it would not be classified as hazardous under the federal hazardous waste regulations (40 CFR 260 - 265). Treat or dispose of in accordance with applicable federal, state, and local regulations.

14.0 TRANSPORT INFORMATION

DOT Proper Shipping Name: Consumer Commodity
Label: None

DOT Hazard Class: ORM-D
Identification Number: None

15.0 REGULATORY INFORMATION

SARA Title III Hazard Categorization: STRIP EASE is categorized as an immediate (acute) health hazard as defined by 40 CFR 370.

SARA Title III Section 302 Extremely Hazardous Substances (EHS): None.

SARA Title III Section 313 Reportable Substances: None.

16.0 OTHER INFORMATION

All information, recommendations, and suggestions appearing herein concerning the product are based upon data believed to be reliable. It is the user's responsibility to determine the safety, toxicity, and suitability for their own use of the product described herein, and to comply with all applicable regulations. Since the actual use by others is beyond the MSDS developer's control, no guarantee, expressed or implied is made by Comprehensive Safety Compliance, Inc. (CSC-acting consultant to Oakhurst Company) as to the effects of such use, the results to be obtained, or the safety and toxicity of the product, nor does CSC, assume any liability arising out of use by others of the product referred to herein. This MSDS is not intended as a license to operate under, or recommendation to infringe on, any patents. Appropriate warnings and safe handling procedures should be provided to handlers and users.

PREPARED BY: Comprehensive Safety Compliance, Inc. (acting consultant for Oakhurst Company)	REVISION NO.: NA	REASON FOR REVISION: Product reformulation
MSDS CONTACT: Richard Stessel (Oakhurst Company) PHONE NO.: 516-731-5380	SUPERSEDES MSDS DATED: February 1, 1996	