

# MATERIAL SAFETY DATA SHEET

This MSDS complies with 29 CFR 1910.1200 (OSHA Hazard Communication Standard) and Canadian WHMIS Regulations.

**IMPORTANT: Read this MSDS before handling and disposing of this product.**

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

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identity: Protecto-Tak**

**Intended Use:** Aerosol adhesive

**Manufacturer:** Protecto Wrap Company  
1955 South Cherokee Street  
Denver, CO 80223

**Telephone:** (303) 777-3001

**Fax:** (303) 777-9273

**Internet:** [www.protectowrap.com](http://www.protectowrap.com)

### HMIS Hazard Ratings

Health	2
Fire	4
Reactivity	0

**Emergency Phone: CHEMTREC: (800) 424-9300**

**MSDS Date of Preparation:** 01/04/10

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Component</u>	<u>CAS No.</u>	<u>Amount</u>	<u>Exposure Limit</u>
Cyclohexane	110-82-7	5-10%	300 ppm PEL-TWA 300 ppm TLV-TWA
Dimethyl Ether	115-10-6	5-15%	None Established PEL/TLV
Hexane	110-54-3	25-45%	500 ppm PEL-TWA 50 ppm TLV-TWA
Isobutane	75-28-5	5-10%	None Established PEL/TLV 800 ppm NIOSH REL-TWA
Propane	74-98-6	5-10%	1000 ppm PEL-TWA 2500 ppm TLV-TWA

**Balance – Non-Hazardous Components**

## 3. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

This product is a white liquid with a solvent odor packaged as an aerosol. Extremely flammable aerosol. Contents under pressure. Containers may burst at high temperatures. Extremely flammable liquid and vapor. May cause severe eye irritation. May cause skin irritation. Inhalation of vapors or mist may cause respiratory irritation and central nervous system effects such as headache, dizziness,

drowsiness, nausea and unconsciousness. Prolonged and/or repeated overexposure may cause peripheral nervous system damage.

#### 4. FIRST AID MEASURES

**EYE:** First check victim for contact lenses and remove if present. Flush victim's eyes with large quantities of water for at least 15 minutes, holding the eyelids apart. Get immediate medical attention.  
**SKIN:** Remove contaminated clothing. Wash skin thoroughly with soap and water. If rash, irritation or other symptoms develop, get medical attention. Launder clothing before re-use.  
**INGESTION:** If conscious, rinse mouth with water. Never give anything by mouth to an unconscious or convulsing person. DO NOT INDUCE VOMITING. Get immediate medical attention.  
**INHALATION:** Immediately remove victim to fresh air. If breathing is difficult have qualified personnel administer oxygen. If breathing has stopped, administer artificial respiration. Get immediate medical attention.

#### 5. FIRE FIGHTING MEASURES

**FLASH POINT:** -156 ° F (-104° C)

**FLAMMABLE LIMITS: LEL:** 1.0% **UEL:** 18.0%

**AUTOIGNITION TEMPERATURE:** Not available

**EXTINGUISHING MEDIA:** Use carbon dioxide, universal foam, dry chemical or water fog. Use water spray only to cool exposed containers.

**UNUSUAL FIRE OR EXPLOSION HAZARDS:** The solvents in this product are extremely flammable and form explosive mixtures with air. Aerosol containers may explode in fire. Vapors are heavier than air and will travel along surfaces to remote ignition sources and flash back. Puncturing containers or heating cans above 130° F may cause containers to rupture.

**SPECIAL FIRE-FIGHTING INSTRUCTIONS:** Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing. Provide shielding to protect from bursting cans.

**HAZARDOUS COMBUSTION PRODUCTS:** Oxides of carbon and nitrogen and other organic compounds.

**EXPLOSION DATA (sensitivity to mechanical impact or static discharge):** Flammable vapors may be ignited by static spark. Mechanical impact may rupture aerosol containers releasing flammable gases and vapors.

#### 6. ACCIDENTAL RELEASE MEASURES

Remove all sources of ignition. Ventilate area with explosion proof equipment. Wear appropriate protective clothing as described in Section 8. Contain and collect using inert absorbent materials and place in appropriate containers for disposal. Report releases as required by local, state and federal authorities.

## 7. HANDLING AND STORAGE

**HANDLING:** Danger: Extremely Flammable. Avoid contact with the eyes, skin and clothing. Avoid breathing vapors. Wear protective clothing and equipment as described in Section 8. Use only with adequate ventilation. Wash thoroughly with soap and water after handling.

Keep away from heat sources, sparks, flames and all other sources of ignition. No smoking in use or storage area. Contents under pressure. Do not puncture or incinerate container.

Do not cut, drill, grind or weld on or near containers, even empty containers. Empty containers retain product residues can be hazardous. Follow all MSDS precautions when handling empty containers.

**STORAGE:** Store in a cool, well ventilated area. Store away from sources of heat and ignition and out of direct sunlight. Store below 120°F.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**EXPOSURE GUIDELINES:** Refer to Section 2.

**ENGINEERING CONTROLS:** Use with adequate general or local exhaust ventilation to maintain exposures below the occupational exposure limits. Use explosion proof equipment where required.

**RESPIRATORY PROTECTION:** If the exposure limits are exceeded a NIOSH approved respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134 and good industrial hygiene practice.

**SKIN PROTECTION:** Avoid contact with the skin. If needed, wear impervious gloves such as Silver Shield or 4H.

**EYE PROTECTION:** Safety goggles and/or face shield should be worn where contact is possible. Do not wear contact lenses.

**OTHER:** Impervious clothing as needed to prevent contact. An eye wash should be available in the immediate work area.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE AND ODOR:** White liquid with a mild solvent odor. The odor threshold for cyclohexane is reported to be 780 ppm. The odor threshold for hexane is reported to be 65 – 250 ppm.

**PHYSICAL STATE:** Aerosol product

**BOILING POINT:** Not available

**VAPOR PRESSURE:** 150 mm Hg @ 25°C (hexane)

**VAPOR DENSITY:** 3.5 (hexane)

**EVAPORATION RATE:** 9 (hexane) (n-butyl acetate=1)

**SOLUBILITY IN WATER:** Insoluble

**BULK DENSITY:** 5.84 lbs/gal

**pH:** NA

**MELTING POINT:** NA

**OCTANOL/WATER COEFFICIENT:** ND

**VOC CONTENT:** 550 g/liter

## 10. STABILITY AND REACTIVITY

**STABILITY:** Stable under normal storage and handling conditions.

**INCOMPATIBILITY:** Strong acids, bases, reducers and oxidizers.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of carbon and nitrogen and other organic compounds.

**HAZARDOUS POLYMERIZATION:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

### HEALTH HAZARDS:

**INGESTION:** This is an unlikely route of exposure with an aerosol product. Ingestion may cause mucous membrane and gastrointestinal irritation and nervous system depression with symptoms of headache, dizziness, nausea, narcosis and unconsciousness. Aspiration into the lungs during ingestion or vomiting may cause serious lung damage which may be fatal.

**INHALATION:** Inhalation of vapors may cause mucous membrane and respiratory irritation and central nervous system depression with symptoms of headache, dizziness, nausea, vomiting, disorientation and stupor. Severe overexposures may cause muscle weakness, numbness in the extremities, unconsciousness, respiration depression and death. Intentional misuse by deliberately concentrating and inhaling the product may be harmful or fatal.

**EYE:** Contact may cause severe irritation with redness, tearing and blurred vision. Eye contact can lead to permanent damage if not treated promptly.

**SKIN:** Repeated or prolonged contact may cause irritation, drying and defatting. The liquid may be absorbed through the skin causing effects similar to those described under inhalation and ingestion.

**SENSITIZATION:** This product is not expected to cause sensitization.

**CHRONIC/CARCINOGENICITY:** Prolonged overexposure may cause peripheral nerve damage and central nervous system effects. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. Hexane has been found to cause adverse reproductive effects and/or birth defects in studies with laboratory animals. No ingredient in this product present at greater than 0.1% is listed as a carcinogen by NTP, IARC, or OSHA.

**MUTAGENICITY:** Hexane and cyclohexane have tested positive for mutagenicity in some test systems.

**SYNERGISTIC PRODUCTS:** None specifically known. Products containing chemicals that effect the same target organ systems would be expected to have synergistic effects; for example other solvent containing products.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Employees with pre-existing skin, respiratory, liver and kidney disease may be at increased risk from exposure.

### ACUTE TOXICITY VALUES:

Cyclohexane: Oral Rat LD50 – 12,705 mg/kg

Skin Rabbit LD50 - >180 g/kg

Dimethyl Ether: Inhalation Rat LC50 - 308 g/m<sup>3</sup>

Hexane: Oral Rat LD50 – 25 g/kg

Inhalation Rat LC50 – 48,000 ppm/4 hr

## 12. ECOLOGICAL INFORMATION

No ecotoxicity data is available for this product at this time.

## 13. DISPOSAL CONSIDERATIONS

Dispose in accordance with local, state and federal environmental regulations.

## 14. TRANSPORT INFORMATION

### DOT HAZARDOUS MATERIALS DESCRIPTION:

Proper Shipping Name: Consumer Commodity

UN Number: None

Hazard Class/Packing Group: ORM-D

Labels Required: None

## 15. REGULATORY INFORMATION

**CERCLA/SUPERFUND:** This product has a Reportable Quantity (RQ) of 10,000 lbs. based on the RQ for Cyclohexane of 1000 lbs. Releases above the RQ must be reported to the National Response Center. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

**SARA HAZARD CATEGORY (311/312):** Acute Health, Chronic Health, Fire Hazard, Sudden Release of Pressure.

**SARA 313 INFORMATION:** This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372):

Cyclohexane	110-82-7	5-10%
Hexane	110-54-3	25-45%

**EPA TSCA INVENTORY:** All of the ingredients in this product are listed on the EPA TSCA Inventory.

### CALIFORNIA PROPOSITION 65

This product contains the following chemicals known to the State of California to cause cancer:  
Benzene <0.1%

This product contains the following chemicals known to the State of California to cause developmental toxicity (birth defects): Toluene <1%

### CANADA:

This product has been classified under the CPR and this MSDS discloses information elements required by the CPR.

**CANADIAN WHMIS CLASSIFICATION:** Class B Division 5 (Flammable Aerosol); Class D Division 2 Subdivision B (Toxic Material Causing other Toxic Effects)

## 16. OTHER INFORMATION

**NFPA RATING:** Health = 2      Fire = 4      Reactivity = 0  
**HMIS RATING:** Health = 2\*      Fire = 4      Reactivity = 0

### REVISION SUMMARY

01/04/10: Revised Date

### 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.