



MATERIAL SAFETY DATA SHEET

24-HOUR EMERGENCY
PHONE NUMBER:

I. **PRODUCT NAME:** Extreme White Hot

INFOTRAC 1-800-535-5053

II. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS #	ACGIH TLV ppm / STEL ppm	OSHA PEL ppm / STEL ppm
PVC Resin (Non Hazardous)	9002-86-2	10 mg/m ³ / NE	15mg/m ³ / NE
Tetrahydrofuran	109-99-9	50, skin / 100	200 / 250
Cyclohexanone	108-94-1	20, skin / 50	25 / -
Methyl Ethyl Ketone	78-93-3	200 / 300	200 / 300

NE = None Established

III. HAZARDOUS IDENTIFICATION

Emergency Overview: Various color liquid (clear, tan, white) with ether-like odor. Extremely flammable liquid and vapors. May cause irritation to skin, eye, respiratory tract and other mucous membranes.

Potential Health Effects: Routes of exposure include; inhalation, skin absorption, skin contact, eye contact and ingestion.

Eyes: Can cause irritation and permanent eye injury. Symptoms include stinging, tearing, redness and swelling of the eyes.

Skin: May cause mild skin irritation. Prolonged or repeated contact may dry the skin and cause dermatitis. Symptoms may include redness, burning, drying and cracking of the skin, and skin burns.

Ingestion: If ingestion occurs, seek medical attention immediately. May cause irritation of nose, throat and can lead to liver and kidney damage. May be fatal if swallowed.

Inhalation: May cause irritation to the nose, throat, mucous membranes and other tissues of the respiratory system. Symptoms include dizziness, drowsiness, fatigue, headache, nausea, coughing and shortness of breath. Overexposure may cause liver and kidney damage.

Health Hazards: Acute: Over exposure to this product can be irritating to the eyes, skin and mucous membranes, and can also cause central-nervous system effects (dizziness, nausea, and headaches). Ingestion of this product, or inhalation of high concentrations of this product's vapors, may be fatal.

Chronic: Prolonged or repeated skin exposures can lead to dermatitis. May cause conjunctivitis with prolonged or repeated eye exposure. May cause liver, kidney and reproductive damage.

Medical Conditions Aggravated by Exposure: Pre-existing disorders of the following organs may be aggravated by exposure to this material: skin, lung, liver, and kidney.

IV. FIRST AID MEASURES

Eyes: Immediately move the individual away from exposure into fresh air. Flush eye with water for at least 15 minutes while holding eyelids apart. Seek immediate medical attention.

Skin: Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

Inhalation: Move individual away from exposure and into fresh air. If symptoms persist seek medical attention. If breathing is difficult, administer oxygen; seek medical attention immediately.

Ingestion: Seek medical attention.

V. FIRE FIGHTING MEASURES

Flashpoint: 6°F / 14°C

Explosive Limits: Upper (UEL) 12.8% Lower (LEL) 1.8%

Fire Extinguishing Media: Use foam, carbon dioxide (CO₂), dry chemical.

Special Fire Fighting Procedures: Incipient fire responders should wear eye protection. Firefighters must wear self-contained breathing apparatus and full protective equipment.

Unusual Fire and Explosive Hazards: Class IB Flammable Liquid. Keep away from sources of heat, sparks, or flame. If ignited, may form carbon dioxide and carbon monoxide, various hydrocarbon vapors and toxic gases. Material is volatile and readily gives off vapors which may travel along the ground or be moved by ventilation and ignited by pilot lights, flames, sparks, heaters, smoking, electric motors, static discharge or other ignition sources at locations near the material handling point.

VI. ACCIDENTAL RELEASE MEASURES

Spill or Leak: Eliminate all ignition sources (flares, flames including pilot lights electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been complete. Stop spill at source. Prevent from entering drains, sewers, streams, or other bodies of water. Prevent from spreading. If runoff occurs, notify authorities as required. Pump or vacuum transfer spilled product to clean metal containers for recovery. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal in accordance with U.S. Federal, State, or local procedures.

VII. STORAGE AND HANDLING

Respiratory Protection: In confined or poorly ventilated areas, use NIOSH/MSHA approved air respirators. Use only protective authorized in 29 CFR 1910.134 or applicable State regulations.

Eye Protection: Splash goggles or safety glasses.

Hand Protection: Wear rubber gloves.

Other Protection: Wear protective clothing appropriate for task (coveralls, apron, Tyvek suit)

Specific Engineering Controls (such as ventilation, enclosed process): Use in well ventilated area. Provide ventilation capable of maintaining emissions at the point of use below recommended exposure limits. Mechanical exhaust (explosive proof) may be required. Emergency eye-wash / safety showers are needed where there is the possibility that an employee's eyes may be exposed to this material, the employer should provide an eye-wash fountain / safety shower within the work area for emergency use

VIII. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Liquid
Color: Various (Clear, Tan, White)
% Volatile by Weight: 80 – 90%
pH: (concentrate): n/a
Vapor Density [air=1]: 2.5
Evaporation Rate (BUAC=1): 8.0
Odor: Ether-like
Vapor Pressure: 143 mm Hg @ 20°C
Specific Gravity: 0.91
Boiling Point: 151°F / 66°C
Solubility in Water: Negligible

IX. STABILITY AND REACTIVITY

Stability: Stable
Hazardous Polymerization: Will occur
Incompatibility (Materials to Avoid): Oxidizers, acids, and bases.
Reactive Conditions to Avoid: Avoid heat, sparks, flames and other sources of ignition.
Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, hydrogen chloride and other various hydrocarbons.

X. TOXICOLOGICAL INFORMATION

Sensitization: None of the components of this product are known to cause sensitization.
Suspected Cancer Agent: None of the components of this product are listed as an IARC, NTP, or OSHA carcinogen. Tetrahydrofuran – The National Toxicology Program has reported that exposures of mice and rats to THF vapor levels up to 1800ppm 6/hr day, 5days/week for their lifetime caused an incidence of kidney tumors in male rats and live tumors in female mice. The significance of these findings for human health are unclear and at this time, and may be related to “species specific” effects. Elevated incidences of tumors in humans have not been reported for THF. ACGIH has classified Cyclohexanone and Tetrahydrofuran as “A3”, Confirmed Animal Carcinogens with Unknown Relevance to Humans.
Reproductive Toxicity: This product is not reported to produce reproductive effects in humans. Reproductive toxicity data is available for Methyl Ethyl Ketone, Cyclohexanone and Tetrahydrofuran; obtained through clinical studies on test animals exposed to relatively high doses.
Mutagenicity: This product is not reported to produce mutagenic effects in humans. Human mutation data is available for Cyclohexanone; obtained through clinical studies on specific human tissues exposed to relatively high doses. Animal mutation data is available for Methyl Ethyl Ketone and Tetrahydrofuran; obtained through clinical studies on specific animal tissues or mirco-organismis exposed to relatively high doses.
Medical Conditions Aggravated By Exposure: Pre-existing disorders of the following organs may be aggravated by exposure to this material; skin, lung, liver, and kidney.

<u>Tetrahydrofuran:</u>	Oral rat LD50: 1,650 mg/kg Inhalation rat LC50: 21,000 ppm / 3 hours
<u>Cyclohexanone:</u>	Oral rat LD50: 1,620 mg/kg Skin rabbit LD50: 1mL/kg Inhalation rat LC50: 8,000 ppm / 4 hours
<u>Methyl Ethyl Ketone:</u>	Oral rat LD50: 2,737 mg/kg Skin rabbit LD50: 6,480 mg/kg Inhalation rat LC50: 23,500 mg/m ³ / 8 hours

XI: ECOLOGICAL INFORMATION

This product is not expected to be toxic to aquatic organisms.

<u>Tetrahydrofuran:</u>	96 hour LC50 fathead minnow: 2160 mg/l
<u>Cyclohexanone:</u>	96 hour LC50 values for fish is over 100 mg/l
<u>Methyl Ethyl Ketone:</u>	96 hour LC50 values for fish is over 100 mg/l

XII. DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose in accordance with current local, state, and federal regulations.

XIII: Transportation Information

DOT

Proper Shipping Name

Less than 1 Liter: Consumer Commodity

Greater than 1 Liter: Adhesives

UN Number

< 1 Liter: None

> 1 Liter: UN 1133

Hazard Class/Packing Group

<1 Liter: ORM-D

>1 Liter: 3, PG II

Label

<1 Liter: None

>1 Liter: Flammable Liquid

IMDG

Proper Shipping Name

Less than 1 Liter: Adhesives

Greater than 1 Liter: Adhesives

UN Number

< 1 Liter: UN 1133

> 1 Liter: UN 1133

Hazard Class/Packing Group

<1 Liter: 3, PG II

>1 Liter: 3, PG II

Label

<1 Liter: None (Limited Quantity)

>1 Liter: Flammable Liquid

Note: Shipments of containers holding 1-liter or less in volume qualify for a "Limited Quantity" exception. Refer to 49 CFR 173.150 for additional information.

XIV: REGULATORY INFORMATION

SARA Reporting Requirements: This product contains the following chemicals subject to Sections 302 and 313 of Title III of the Superfund Amendments and Reauthorization Act:

Chemical Name	SARA 302 (40 CFR 355, Appendix A)	SARA313 (40 CFR 372.65)
Tetrahydrofuran	NO	NO
Cyclohexanoe	NO	NO
Methyl Ethyl Ketone	NO	NO

U.S. CERLCA Reportable Quantity:

Tetrahydrofuran = 100 lbs.

Cyclohexaone = 5000 lbs.

Methyl Ethyl Ketone = 5000 lbs.

California Proposition 65: This product may contain trace levels of chemicals know to the State of California to cause cancer. Exposure to these chemicals above the State of California "No Significant Risk Level" is unlikely under normal use conditions.

TSCA Inventory: The components of this product are listed on the TSCA Inventory.

Canadian WHMIS Classification: Class B2: Flammable Liquid. Class D2A/A: Materials Causing Other Toxic Effects.

XV: OTHER INFORMATION

NFPA and HMIS:

NFPA Hazard Signal: Health: 2 Flammability: 3 Reactivity: 1 Special: None

HMIS Hazard Signal: Health: 2 Flammability: 3 Reactivity: 1 PPE: G

NOTICE TO PURCHASER—LIMITATION OF LIABILITY. EXTREME Adhesives, Inc. disclaims liability for any dangers and bodily injury resulting from failure to heed warnings on the label and disclaims liability in any case, for any consequential damages. Since the use of this material is beyond the control of EXTREME Adhesives, Inc., EXTREME Adhesives, Inc. shall not be responsible for damages resulting from the use of this product. Manufacturer's warranty is limited to replacement of products or refund of purchase price on goods proven defective.

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