

E.E. Zimmerman Company/Elroy Turpentine Company  
 P.O. Box 111254  
 Pittsburgh, PA 15238  
 (412) 963-0949

Prepared: 8/01  
 Product Code: Herc #857 2111 0100 08

**MATERIAL SAFETY DATA SHEET**

**E-Z STEAM DISTILLED TURPENTINE**

**EMERGENCY CONTACT:** FOR CHEMICAL EMERGENCY - SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT,  
 CALL CHEMTREC AT 1-(800)-424-9300, DAY OR NIGHT.

INDEX	HMIS	NFPA
4 - Severe	Health 2	Not Determined
3 - Serious	Flammability 3	Not Determined
2 - Moderate	Reactivity 0	Not Determined
1 - Slight		
0 - Minimal		

**Section 1. PRODUCT IDENTIFICATION**

Product Name: Steam Distilled Turpentine  
 CAS Number: 8006-64-2  
 Chemical Description: Steam-distilled wood turpentine

**Section 2. COMPOSITION / INFORMATION ON INGREDIENTS**

OSHA Hazardous Ingredient	CASRN	Amount
turpentine	8006-64-2	100%

**Section 3. HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW:  
 WARNING!**

Flammable liquid  
 May cause eye irritation.  
 May cause skin irritation.  
 Inhalation of vapor may cause respiratory tract irritation.  
 Ingestion may cause severe gastrointestinal irritation.  
 May cause central nervous system depression (dizziness, drowsiness, incoordination).

**POTENTIAL HEALTH EFFECTS**

If swallowed, vomiting will cause lung damage.

Refer to Section 5 for Hazardous Combustion Products, and Section 10 for Hazardous Decomposition/Hazardous Polymerization Products.

**Section 4. FIRST AID MEASURES**

**SKIN:** Wash thoroughly with soap and water. Remove contaminated clothing. Get immediate medical attention. Thoroughly wash clothing before reuse.

**EYE:** Remove contact lenses. Hold eyelids apart. Immediately flush eyes with plenty of low-pressure water for at least 15 minutes. Get immediate medical attention.

**INHALATION:** Remove to fresh air. Get medical attention if nasal, throat or lung irritation develops.

**INGESTION:** Do NOT induce vomiting. Do not give anything by mouth. Get immediate medical attention. See Note to Physician.

**NOTES TO PHYSICIAN:** This product contains a hydrocarbon solvent. Aspiration into the lungs will result in chemical pneumonitis and may be fatal. Ingestion may cause damage to the esophageal mucosa which would contraindicate insertion of a nasogastric tube. Measures against circulatory shock and respiratory depression may be necessary.

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### Section 5. FIRE FIGHTING MEASURES

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#### EXTINGUISHING MEDIA:

Water spray, dry chemical, foam, carbon dioxide or clean extinguishing agents may be used on fires involving this product.

#### FIRE FIGHTING PROCEDURES:

Wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH approved (or equivalent) and full protective gear when fighting fires involving this product.  
Cool containers with water to prevent rupture.

#### CONDITIONS TO AVOID:

None known.

#### HAZARDOUS COMBUSTION PRODUCTS:

During combustion, the following substances may be formed: carbon monoxide, carbon dioxide, aldehydes and carboxylic acids.

**FLASH POINT:** 96 deg. F Setflash

**AUTOIGNITION TEMPERATURE:** 488 deg. F

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### Section 6. ACCIDENTAL RELEASE MEASURES

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Extinguish all sources of ignition. Evacuate area of all personnel. Wear protective skin and eye protection. For small spills: Add absorbent, sweep up, and dispose appropriately. For large spills: Dike to contain and pump into drums for use or disposal. In case of accidental spill or release, refer to Section 8, Personal Protective Equipment and General Hygiene Practices.

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### Section 7. HANDLING AND STORAGE

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#### GENERAL MEASURES:

Flammable. Bond containers during filling or discharge when performed at temperatures at or above the product flash point.

Store in a cool, dry area.

Store in areas designed for flammable liquid storage (see NFPA 30).

Keep container closed when not in use.

#### MATERIALS OR CONDITIONS TO AVOID:

Keep away from heat, flame, sparks and other ignition sources.

Spontaneous combustion may occur in materials soaked with this product and exposed to air, as well as soaked vessel and piping insulation.

Avoid storing product near incompatible materials. See MSDS Section 10.

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### Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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#### WORK PRACTICES AND ENGINEERING CONTROLS:

Keep away from ignition sources.

Properly discard any item soaked with material, as spontaneous heating may occur.

Eyewash fountains and safety showers should be easily accessible.

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Discharge from the ventilation system should comply with applicable air pollution control regulations.

**GENERAL HYGIENIC PRACTICES:**

Avoid contact with eyes, skin, and clothing.  
 Avoid breathing vapor, fumes or mist.  
 Do not swallow.  
 Handle in areas with adequate ventilation.  
 Avoid contamination of food, beverages, or smoking materials.  
 Wash thoroughly after handling, and before eating, drinking or smoking.  
 Remove contaminated clothing and shoes promptly and clean thoroughly before reuse.

**RECOMMENDED EXPOSURE LIMITS:**

ACGIH 2000 - Time Weighted Averages  
 turpentine

100 ppm TWA

OSHA - Vacated PELs - Time Weighted Averages  
 turpentine

100 ppm TWA; 560 mg/m<sup>3</sup> TWA**PERSONAL PROTECTIVE EQUIPMENT:**

Chemical goggles  
 Impervious gloves  
 Appropriate protective clothing  
 Appropriate respiratory protection is required when exposure to airborne contaminants may exceed acceptable limits. Respirators should be selected and used in accordance with OSHA, Subpart I (29 CFR 1910.134) and manufacturer's recommendations.

**PROTECTIVE MEASURES DURING REPAIR AND MAINTENANCE:**

Eliminate ignition sources.  
 Completely isolate and thoroughly clean all equipment, piping, or vessels before beginning maintenance or repairs.  
 Keep area clean. Product will burn.

**Section 9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>PHYSICAL STATE:</b>	liquid
<b>COLOR:</b>	colorless
<b>ODOR:</b>	pine
<b>Boiling Point</b>	313 - 338 deg. F
<b>Specific Gravity:</b>	0.86
<b>Percent Volatile:</b>	99.0
<b>Vapor Pressure:</b>	4.0 mmHg at 68 deg. F
<b>Evaporation Rate:</b>	slower than butyl acetate
<b>Vapor Density:</b>	heavier than air
<b>Solubility in Water:</b>	negligible at 68 deg. F

**Section 10. STABILITY AND REACTIVITY**

**HAZARDOUS DECOMPOSITION PRODUCTS:**  
 None known.

**HAZARDOUS POLYMERIZATION:**  
 Not anticipated under normal or recommended handling and storage conditions.

**GENERAL STABILITY CONSIDERATIONS:**  
 Stable under recommended handling and storage conditions. Material is susceptible to oxidation and self-heating.

**INCOMPATIBLE MATERIALS:**  
 Incompatible with: acids, aluminum chloride, and boron trifluoride.

**Section 11. TOXICOLOGICAL INFORMATION**

**CARCINOGENICITY INFORMATION:**

Not listed as a carcinogen by NTP. Not regulated as a carcinogen by OSHA. Not evaluated by IARC.

**REPORTED HUMAN EFFECTS:**

Aspiration into the lungs will cause chemical pneumonia. Adult lethal dose anticipated to be 4 - 6 oz. with death usually due to respiratory failure. Irritating to the skin, eye, and mucous membranes. Skin sensitizer in susceptible individuals. Ingestion causes gastric pain, nausea, vomiting, coughing and choking. Inhalation exposure at 720 - 1100 ppm caused eye irritation, headache, dizziness, nausea, chest pain, and visual disturbances. Inhalation or aspiration may cause pulmonary edema or pneumonia. May be absorbed through the skin, lungs, and intestinal tract, resulting in kidney damage, painful urination, respiratory or central nervous system effects.

**REPORTED ANIMAL EFFECTS:**

Oral LD50 (rat): 1.4-5.2 g/kg; inhalation LC50 (rat, guinea pig): 2430 ppm (13.5 mg/L); (mouse): 1620 ppm (9.0 mg/L). Moderate rabbit eye irritant with reversible corneal damage. Slight rabbit skin irritant.

**Section 12. ECOLOGICAL INFORMATION**

**ECOTOXICOLOGICAL INFORMATION:**

No ecological studies have been carried out on this product.

**Section 13. DISPOSAL CONSIDERATIONS**

**WASTE DISPOSAL:**

Incineration in accordance with applicable regulations is the recommended disposal method. Disposal should be in accordance with applicable Federal, State and local regulations.

**Section 14. TRANSPORT INFORMATION**

**GENERAL:**

This product is subject to the hazardous material regulations. For specific information regarding transportation of this product, please contact E. E. Zimmerman Company/Eroy Turpentine Company at (412) 963-0949.

**Section 15. REGULATORY INFORMATION**

**CHEMICAL INVENTORIES:**

U.S. TSCA: The components of this product are included on the TSCA Inventory.

**SARA TITLE III - SECTIONS 302/304**

This product is not an Extremely Hazardous Substance subject to reporting under 40CFR355.

**SARA TITLE III - SECTION 311 AND 312**

HC-1: Acute health hazard  
HC-3: Fire hazard

**SARA TITLE III - SECTION 313**

This product does not contain any chemicals subject to reporting under Section 313 of Title III of the Superfund Amendments and Reauthorization Act and 40CFR372.

**CERCLA:**

This product does not contain any chemicals subject to reporting as a CERCLA Hazardous Substance under 40CFR302.4.

**RCRA:**

This product exhibits the following characteristics listed in 40CFR261, Subpart C: Ignitability (D-001) Disposal of unused product must comply with the hazardous waste regulations.

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**Section 16. OTHER INFORMATION**

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**LIST OF ACRONYMS**

ACGIH:	American Conferences of Governmental Industrial Hygienists
AIHA WEEL:	American Industrial Hygienists Association - Workplace Environmental Exposure Level
CASRN:	Chemical Abstracts Service Registry Number
CERCLA:	Comprehensive Emergency Response, Compensation and Liability Act
HMIS:	Hazardous Materials Identification System
IARC:	International Agency for Research on Cancer
NTP:	National Toxicology Program
OSHA:	Occupational Safety and Health Administration
PEL:	OSHA Permissible Exposure Limit
RCRA:	Resource Conservation and Recovery Act
RQ:	Reportable Quantity
SARA:	Superfund Amendment Reauthorization Act
STEL:	Short - Term Exposure Limit
TLV:	Threshold Limit Values (registered trademark of ACGIH)
TPQ:	Threshold Planning Quantity
TSCA:	Toxic Substance Control Act
TWA:	Time Weighted Average

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