

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Enerdyne Solutions 125 W North Bend Way P.O. Box 2660 North Bend, WA 98045 USA Phone: 1-425-888-1880 Fax: 1-425-831-0773 Emergency Number: Call 911/Fire Dept.	Indigo Xtreme Clean™ Thermal Surface Cleaner
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Date Reviewed: May 16th, 2010
Reviewed By: J. McCullough

2. HAZARDOUS INGREDIENTS

Components	CAS#	Weight %	ACGIH TLV*	OSHA TWA	U.S. EPA Recommended TLV
Proprietary blend***			NE**	NE**	25 ppm

* All components are listed on the TSCA inventory.
** Not Established.
*** Includes n-propyl bromide

Components listed as proprietary are considered trade secret in accordance with the OSHA Hazard and Communication Standard (29 CFR 1910.1200). Identity of proprietary components will be made available as provided in this standard.

3. HAZARDS IDENTIFICATION

Emergency Overview

Non-flammable solvent azeotrope.

Keep away from fire and flame. Use with adequate ventilation. Do not ingest. Avoid contact with skin. In case of eye contact, flush eyes with water. Keep out of reach of children.

Eye Contact: Direct eye contact with vapors or splashes may cause eye irritation.

Skin Contact: Expected to be a skin irritant. Prolonged or repeated skin exposure can remove oils, causing redness, drying and cracking. Persons with pre-existing skin disorders may be more susceptible to skin irritation from this material. Not expected to be acutely toxic.

Inhalation (Breathing): Not expected to be acutely toxic. Prolonged exposure to excessively high vapor concentrations can result in central nervous system depression (e.g., drowsiness, dizziness, loss of coordination, and fatigue) and may cause adverse effects in the liver, lung, and kidney. Persons with impaired lung function may experience additional breathing difficulties due to the irritant properties of this material.

Ingestion (Swallowing): Not expected to be acutely toxic.

Chronic Effects of Overexposure: Long term overexposure may cause adverse effects in the liver, respiratory system, kidney, and central nervous system.

Carcinogenic Status: This substance has not been identified as a known carcinogen by NTP, IARC or OSHA, nor have any of its components.

4. FIRST AID

Eye Contact: If eye irritation from exposure to vapors develops, move to fresh air. Flush eyes with clean water. For direct eye contact, flush with large quantity of water for 15 minutes. If irritation persists, seek medical attention.

Skin Contact: Remove contaminated clothing; flush skin thoroughly with water.

Inhalation (Breathing): If irritation of nose or throat develops, move to fresh air. If irritation persists, seek medical attention. If breathing is difficult, provide oxygen. If not breathing, give artificial respiration. Seek immediate medical attention.

Ingestion (Swallowing): If swallowed, give two glasses of water. Seek medical attention.

5. FIRE AND EXPLOSION HAZARD

Flash Point: None (TCC) for solvent **Flammable Limits:** Approximately 3-8% in air.

Extinguishing Media: None required.

Special Procedures: Use self-contained breathing apparatus. Use water spray or fog to cool exposed equipment and containers. Do not breathe smoke or vapors. Materials moistened with Indigo Xtreme Clean™ may ignite.

Hazardous Thermal Decomposition Products: Include hydrogen bromide, bromine and oxides of carbon. Include oxides of nitrogen.

6. ACCIDENTAL RELEASE MEASURES

No spill hazard with saturated towel package.

7. HANDLING AND STORAGE

Keep Indigo Xtreme Clean™ in original container with cap screwed firmly closed. Place small amount on clean cloth or towel to use and replace cap between uses. Keep containers cool, dry, and away from sources of ignition. Use and store this product with adequate ventilation. Avoid inhalation of vapors and personal contact with the product. Use good personal hygiene practice. Any cloth or towels moistened with Indigo Xtreme Clean™ should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

8. CONTROL MEASURES

Respiratory Protection: Normal ventilation adequate. If exposure exceeds recommended limits, respirator protection is recommended. Use a respirator or gas mask with cartridges for organic vapors (NIOSH approved) or use supplied air equipment.

Protective Gloves: For repeated or prolonged skin contact, the use of impermeable gloves is recommended to prevent drying and possible irritation.

Eye Protection: Eye protection is recommended, especially if the material is used in ways where it could splash in the eyes.

Other Protective Equipment: It is suggested that a source of clean water be available in work area for flushing eyes and skin. Impervious clothing should be worn as needed.

9. PHYSICAL DATA

Appearance	Clear, colorless liquid.
Vapor Pressure	139 mm Hg @ 25°C/77 °F

Specific Gravity (H₂O = 1)	1.33
Percent Volatiles (Weight)	100%
Boiling Point	IBP - 160°F / 71°C
Vapor Density (Air = 1)	>1
Solubility in Water	Very slightly soluble
Evaporation Rate	>1 (n-butyl acetate = 1)
VOC Content	1330 gms/L

10. REACTIVITY DATA

Stability: Stable **Hazardous Polymerization:** Will not occur.

Incompatibility: Avoid heat, flame or other hot surfaces that could cause thermal decomposition.

Materials to Avoid: Strong alkalis, oxidizers, bases, reactive metals (i.e. potassium, sodium, etc.) and natural rubber.

11. HEALTH HAZARD/TOXICOLOGICAL INFORMATION

Refer to Section 3 for available information on potential health effects.

12. DISPOSAL CONSIDERATIONS

Dispose of product in accordance with local, county, state, and federal regulations. Indigo Xtreme Clean™ is not considered hazardous waste under RCRA.

13. TRANSPORTATION

DOT Hazard Class: Not Regulated

DOT Shipping Name: Not Regulated

14. REGULATORY STATUS

Canada WHMIS Class: Class D, Division 2B

Hazard Categories for SARA

Section 311/312 Reporting

Acute	Chronic	Fire	Pressure	Reactive
Yes	Yes	No	No	No

CERCLA/SARA Sec. 302 SARA Sec. 313

Components	Hazardous Substance RQ	EHS TPQ	Toxic Release
1,2-Butylene Oxide*	Yes (100 lbs)	No	No

* Indigo Xtreme Clean™ contains < 1% 1,2-Butylene Oxide as a stabilizer.

Disclaimer: The information and recommendations contained herein are believed to be reliable. However, the supplier makes no warranties, express or implied, concerning the use of this product. The buyer must determine conditions of safe usage and assumes all risk and liability in handling this product.