

**MATERIAL SAFETY DATA SHEET
JIM RAY COMPANY, INC.
10645 RICHMOND AVENUE, #130
HOUSTON, TEXAS 77042**

Section 1 - Identification of Substance and Company

PRODUCT NAME: **TIGER PAK A**

MANUFACTURER: JIM RAY COMPANY, INC.
10645 RICHMOND AVENUE #130
HOUSTON, TEXAS 77042
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Section 2 - Information on Ingredients

CHEMICAL NAME: MIXTURE OF ISOBUTYLENE / BUTENE COPOLYMER OILS,
MIXTURE OF SYNTHETIC WAXES,
POLYTETRAFLUOROETHYLENE AND INERT FILLERS

Section 3 - Hazard Identification

Hazardous Ingredients / OSHA: None

Color and Consistency: DARK BROWN, SEMI SOLID STICKS

Potential Health Effects

Skin Contact: Repeated or prolonged skin contact may cause slight skin irritation of susceptible persons. Heated material can cause thermal burns.

Eye Contact: Will irritate eyes on contact.

Ingestion: Sealant may be harmful if swallowed. May irritate mouth, throat and stomach.

Inhalation: None at ambient temperature, at temperatures over 175 deg. F. the fumes may be objectionable. Above 500 deg. F a suitable breathing mask must be worn.

Section 4 - First Aid Measures

- Skin Contact: Wash affected skin with an Aliphatic hydrocarbon solvent such as kerosene or diesel fuel in a well ventilated fresh air environment (in absence of any flames) while wearing suitable eye and body protection, followed immediately by washing with soap and water.
- Eye Contact: Flush eyes with large amounts of water for at least 15 minutes. If irritation persists, consult a physician.
- Ingestion: Seek medical advice. Pharmaceutical grade of white mineral oil may be used to help purge sealant from body at the direction of a physician.
- Inhalation: Move person to fresh air environment. Administer oxygen if person has been subjected to fumes from fire and if having trouble breathing, seek medical attention immediately.

Section 5 - Explosion and Fire-Fighting Measures

Extinguishing Media: Carbon Dioxide, Dry Chemical, Water Fog

Special Fire Fighting Procedures: Wear MESA/NIOSH approved self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: Toxic fluorine compounds may be evolved in a fire. Self-contained breathing apparatus must be worn when fighting fires where there is a possibility of exposure to smoke, fumes, or hazardous decomposition products from Tiger Pak A.

Not Explosive

Section 6 - Accidental Spill Procedures

Steps to be taken in case material is spilled: Dike and contain the spill with inert material (i.e., sand, earth, sawdust) and transfer solid material to separate containers for recovery or disposal. Wash floor area with hot soapy water solution. Remove contaminated clothing and wash before reuse. Keep spills out of all sewers and bodies of water. User should determine if any spill is reportable under applicable laws and regulations. Dispose packaged spills in accordance with applicable laws.

Section 7 - Handling and Storage

Any use of this product in an elevated process, should be evaluated to establish and maintain safe operating procedures. Keep from contact with oxidizing materials. Containers should be kept tightly closed and stored in a dry well-ventilated place.

Section 8 - Personal Protection

- Hand Protection: Impervious gloves for prolonged skin contact or sensitive skin individuals.
- Respiratory Protection: None required at ambient temperature.
- Eye Protection: Splash goggles not required, safety glasses recommended.
- Engineering Measures: For normal Operation, local exhaust ventilation should suffice. Direct exhaust when material becomes heated and fumes are given off.
- Other: Eyewash facility in vicinity.

Section 9 - Physical and Chemical Properties

Boiling Point:	N/A	Specific Gravity:	1.2
Flash Point (COC)	350 Deg. F.	Evaporation Rate:	N/A
Vapor Density(Air=1):	N/A	Solubility in Water:	Negligible
Vapor Pressure(20° F):	N/A	pH:	N/A

Appearance and Odor: Dark Brown semi-solid sticks, mild odor

N/A = Not Applicable

Section 10 - Stability and Reactivity

- Stability: This product is stable under normal conditions.
- Conditions to avoid: Strong oxidizing agents, aliphatic, aromatic and chlorinated gases, liquids and hydrocarbon solvents.
- Hazardous Polymerization: Will not occur under normal circumstances.
- Incompatibility (Materials to avoid): Alkali metals, interhalogen compounds, aliphatic, aromatic and chlorinated hydrocarbon gases, liquids, and solvents and fuels (gasoline and diesel).
- Hazardous decomposition products: Hydrogen Fluoride and perfluoro hydrocarbons evolved above 500 deg. F.

Section 11 - Toxicological Information

Acute Toxicity: Oral LD₅₀(rat): >34500 mg/kg (Rat)
Dermal LD₅₀ (rabbit): >10200 mg/kg (Rabbit)
Skin Irritation(rabbit): very slight
Eye Irritation(rabbit): very slight
Inhalation LC50: >17000 mg/m3 (Rat)

Section 12 - Ecological Information

Summary: Data for this material have been used to estimate its environmental impact. It has the following properties: a high potential to affect some aquatic organisms, not readily biodegradable with acclimated microorganisms from activated sludge, although tests have not been conducted using current EPA test methods, Tiger Pak A has a low potential to persist in the environment, and a low potential to bioconcentrate.

Acute Aquatic Toxicity Effects: 96 hour LD₅₀ (fathead minnow): >1000 mg/L
96 hour LD₅₀ (rainbow trout): > 10,000 mg/L

This product does not contain any ozone depleting compounds (ODC's).

Section 13 - Transport Information

Not classified as hazardous according to the Department of Transportation.

Section 14 - Regulatory Information

Toxic Substances Control Act (TSCA): This product is in compliance with the TSCA regulation of the USA. Superfund Amendments and Reauthorization Act (SARA) This product has the following hazards as defined in Section 311/312 of 40 CFR Part 372:

Hazards: None

This product contains the following chemicals subject to the reporting requirements of Section 323 or Title III of SARA and 40 CFR Part 372:

Ingredients: None

California Proposition 65: This product contains the following substances known to the state of California to cause cancer, birth defects, or other reproductive harm per the Safe Drinking Water and Toxic Enforcement Act of 1986:

Ingredients: None

Section 15 - Special Precautions

None known.

Section 16 - Other Information

The information presented herein is believed to be factual as it has been derived from the works and opinions of persons believed to be qualified experts; however, nothing contained in this information is to be taken as a warranty or representation for which the Jim Ray Company, Inc. bears legal responsibility. The user should review any recommendations in the specific context of the intended use to determine whether they are appropriate.

Prepared by:

Date: July 17, 2012

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