



**INDIUM CORPORATION OF AMERICA ®\EUROPE®\ASIA-PACIFIC®
INDIUM CORPORATION (SUZHOU) ®
MATERIAL SAFETY DATA SHEET**

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: FLUXCAKE-501

MSDS Number: MSDS- 4267

Revised Date: 25 FEBRUARY 2009

Product Use: NO-CLEAN FLUX CAKE

MANUFACTURER:

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2. COMPOSITION / INFORMATION ON INGREDIENTS

Components	% wt	CAS Registry #	PEL mg/m ³	TLV-TWA mg/m ³	TLV-STEL mg/m ³
PROPRIETARY RESIN	75-79	-	N.E.	N.E.	N.E.
PROPRIETARY ACTIVATORS	21-25**	-	N.E.	N.E.	N.E.

Symbol: Xn

N.E. = Not established

** Contains 5% of an ingredient that is listed as a potential carcinogen.

3. HAZARDS IDENTIFICATION

PRIMARY ROUTES OF ENTRY:

√Eye √Inhalation √Skin √Ingestion NTP

*Carcinogen listed in

IARC OSHA √Not Listed
*See Section 11

POTENTIAL HEALTH EFFECTS:

- Eye Contact:** Irritating to the eyes and if not removed promptly, may result in serious eye injury. Do not allow material to come in contact with the eyes.
- Ingestion:** Harmful if swallowed. May cause irritation and damage to the mouth, esophagus and gastrointestinal tract. .
- Inhalation:** Heated vapor concentrations may be harmful if inhaled and may cause asthma. Irritating to the respiratory tract.
- Skin Contact:** May cause mild skin irritation. Allergic reactions or dermatitis are possible, especially with repeated or prolonged exposure.
- Chronic:** Not established.
- NOTE:** **The Indium Corporation does not recommend, manufacture, market or endorse any of it's product's for human consumption.**
- WARNING:** **This product contains a chemical known to the State of California to cause cancer and/or birth defects (or other reproductive harm).**

4. FIRST AID MEASURES

- Eye Contact:** Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.
- Ingestion:** If patient is conscious, ONLY induce vomiting as directed by trained personnel. NEVER give anything by mouth to an unconscious person. Seek medical attention immediately.
- Inhalation:** Remove to fresh air. If not breathing, give artificial respiration or oxygen by trained personnel. Seek immediate medical attention.
- Skin Contact:** Remove contaminated clothing. Wash affected area with soap and water. Wash clothing before reuse. If irritation persists, obtain medical attention.

5. FIRE FIGHTING MEASURES

- Flash Point:** >100C (212F) **Method:** Not available.
- Auto-ignition Temperature:** Not established.
- Flammable Limits:** Limits not established.
- Extinguishing Media:** Use extinguishers appropriate for the surrounding fire conditions. CO₂, foam, water.
- Special Fire Fighting** Firefighters must wear NIOSH approved or equivalent self-contained breathing

Procedures: apparatus and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Spill or Leak Procedures: Wear a respirator and appropriate personal protective equipment (See Exposure Controls/Personal Protective Section). Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Keep away from source of ignition. Do not allow to enter sewer. Dispose of following all Federal, State and Local regulations. Ensure area is ventilated. Keep unauthorized personnel away. In the EU refer to the Special Waste Regulations..

7. HANDLING AND STORAGE

Handling Precautions: Keep containers tightly closed when not in use. Use care to avoid spills. Avoid breathing vapors from heated material. Avoid contact with eyes, skin and clothing. Use with adequate ventilation.

Storage Precautions: Store product in tightly capped original containers in a cool, dry area. Keep away from heat and flame. Store away from incompatible materials. Empty containers may be hazardous as they contain product residue.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Good general exhaust or point source ventilation should be sufficient to control airborne levels and keep exposure levels low. Use exhaust ventilation especially during heating. Product contains an ingredient that may cause cancer.

Personal protection:

Eyes: Chemical safety glasses/goggles.

Respirator: A NIOSH approved or EU compliant CE marked air-purifying respirator with a fume/organic chemical cartridge is recommended under certain circumstances where airborne concentrations are expected to be elevated or when proper ventilation is not adequate to protect the worker. Avoid breathing of vapors and fumes. If engineering controls are not available additional respiratory protection may be needed. Testing may be needed to determine exposure levels.

Skin: Compatible chemical resistant gloves, nitrile type is recommended. Recommend protective outer garment, apron and sleeves as appropriate. Avoid skin exposure.

Other: Eyewash fountain in work area. Avoid the use of contact lenses in high fume areas.

Work/Hygienic Practices: Maintain good housekeeping. Clean up spills immediately.

Avoid eating, smoking or drinking in the work area. Wash hands thoroughly with soap and water immediately upon leaving the work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Flux cake	Boiling Point:	Not applicable.
Odor:	Slight characteristic odor.	Melting Point:	Not applicable
Specific Gravity:	Not applicable.	pH:	Not applicable
Vapor Pressure:	Not applicable.	Solubility in Water:	Not established
Vapor Density:	(air=1) Not applicable.		

10. STABILITY AND REACTIVITY

General:	Stable.
Conditions to Avoid:	Freezing temperatures. High temperatures.
Incompatible Materials:	Not established
Hazardous Decomposition /	Harmful organic fumes and carbon monoxide, carbon dioxide and hydrogen bromide
Combustion:	gas fumes may form at elevated temperatures.
Hazardous Polymerization:	Will not occur.

11. TOXICOLOGICAL INFORMATION

Carcinogenicity:	NTP: No		
	OSHA: No		
	IARC: No		
	Product contains 5% of a proprietary ingredient that may cause cancer.		
LD50:	Not established.	LC50:	Not established.

12. ECOLOGICAL INFORMATION

This section is subject to future development. Product not tested.

Biodegradability: Data not established.

Aquatic Toxicity: Data not established.

13. DISPOSAL CONSIDERATION

Waste Disposal Method: Dispose of in accordance with all Federal, State and Local environmental regulations. In Europe follow the Special Waste Regulations.

14. TRANSPORT INFORMATION

Transport in accordance with applicable regulations and requirements. Not regulated under US DOT (United States Department of Transportation). Not hazardous under the shipping regulations.

North American Emergency Guide Book – Not classified

15. REGULATORY INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated hereunder (29 CFR 1910.1200 ET. SEQ.).

The information in this Material Safety Data Sheet meets the requirements of the EU under Chemicals (Hazard Information and Packaging for Supply) Regulations 1994 (CHIP 2) Regulation 6.

This product has been classified in accordance with the hazard criteria of the Commission Directive 91/155/EEC and EH40.

This product has been classified in accordance with the hazard criteria of the Mexican regulations: NOM-018-STPS-2000 and NOM-010-STPS-1999.

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulation (CPR).



Canadian WHMIS: Materials Causing Other Toxic Effects

This product has been classified in accordance with the guidelines set by the Dept of Industrial Health of the Republic of Singapore.

SARA 313 Listing - 40 CFR 372.65 - None

All ingredients are listed on the EPA TSCA Inventory.

EC Classification, Packaging and Labeling Requirements:

Symbol and Hazard Classification of Product

Xn (Harmful)

Risk Phrases:

- R20/21 Harmful by inhalation and if swallowed
- R36/37/38 Irritating to eyes, respiratory system and skin
- R45 May cause cancer (contains an ingredient that may cause cancer) (Product not tested)

Safety Phrases:

- S20/21 When using do not eat, drink or smoke
- S23 Do not breathe fumes/gas/vapor/spray
- S24/25 Avoid contact with skin and eyes
- S28 After contact with skin wash immediately with plenty of soap and water
- S36/37/39 Wear suitable protective clothing, gloves and eye/face protection
- S7 Keep container tightly closed

16. OTHER INFORMATION

HMIS Hazard Rating: **Health:** 2
 Fire: 1
 Reactivity: 0

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