



## SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier:** 5RMA-RC FLUX

**SDS Number:** SDS-6114

**Revised Date:** 19 MARCH 2018

**Product Use:** Industrial Use - Flux

#### MANUFACTURER:

##### In America:

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## 2. HAZARDS IDENTIFICATION

### PRIMARY ROUTES OF ENTRY:

Eye   
Inhalation   
Skin   
Ingestion   
NTP   
IARC   
OSHA   
Not Listed

### Carcinogen listed in

GHS:



Signal Word: Danger

### Hazard Statements:

H225            Highly Flammable liquid and vapor  
H317            May cause an allergic skin reaction  
H319            Causes serious eye irritation  
H334            May cause allergy or asthma symptoms or breathing difficulties if inhaled  
H335            May cause respiratory irritation  
H336            May cause drowsiness or dizziness

### Precautionary statement(s)

P210            Keep away from heat/sparks/open flames/hot surfaces. – No smoking  
P233            Keep container tightly closed  
P240            Ground/Bond container and receiving equipment  
P261            Avoid breathing dust/fume/gas/mist/vapors/spray  
P270            Do not eat, drink or smoke when using this product  
P273            Avoid release to the environment  
P280            Wear protective gloves/protective clothing/eye protection/face protection  
P362            Take off contaminated clothing and wash before reuse  
P301 + P314    IF SWALLOWED: Get medical advice/attention if you feel unwell  
P302 + P352    IF ON SKIN: Wash with plenty of soap and water  
P304 + 341    IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing  
P305 + 351    IF IN EYES: Rinse continuously with water for several minutes (15 minutes)

Classification:

Eye irritant – (Category 2A)

Flammable liquids - (Category 2)

Specific target organ systemic toxicity (single exposure) – (Category 3), Central nervous system

Skin sensitizer- Category 1B

Respiratory sensitizer- Category 1B

### POTENTIAL HEALTH EFFECTS:

**Eye Contact:**    Vapors may be irritating, liquid may irritate eye tissue.  
**Ingestion:**        May result in gastric disturbances such as nausea and vomiting. Irritating to digestive tract.  
**Inhalation:**        May cause throat irritation, headache or dizziness. Irritating to respiratory tract. Rosin may cause occupational asthma.  
**Skin Contact:**      Prolonged contact may cause irritation or dermatitis. Rosin may cause skin sensitization.

**Chronic:** Not established.

**NOTE:** The Indium Corporation does not recommend, manufacture, market or endorse any of its products for human consumption.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Components	% wt	CAS Registry #/EINECS#	PEL mg/m <sup>3</sup>	TLV-TWA mg/m <sup>3</sup>	TLV-STEL mg/m <sup>3</sup>
ISOPROPYL ALCOHOL	60-65	67-63-0/200-661-7 (US)	980	983	1230
		(EU)	-	999	1250
		(Canada)	-	983	1228
		(Singapore)	983	-	1230
		(Mexico)	-	980	1225
		(China)	-	350	700
ROSIN	20-25	8050-09-7	N.E	N.E	N.E.
		(EU)	0.05	-	0.15
ISOBUTYL ALCOHOL	10-15	78-83-1/201-148-0	300	152	-
		(Canada)	-	152	227
		(Singapore)	152	-	-
		(Mexico)	-	150	225

N.E. = Not established

### 4. FIRST AID MEASURES

- Eye Contact:** Hold eyelids apart and flush eyes with plenty of tepid 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

<b>Flash Point:</b>	61F	<b>Method:</b>	TCC
<b>Auto-ignition Temperature:</b>	750 F		
<b>Flammable Limits:</b>	Upper limit 12 @ 77F. Lower limit 2 @ 77 F.		
<b>Extinguishing Media:</b>	Use extinguishers appropriate for the surrounding fire conditions.		
<b>Special Fire Fighting Procedures:</b>	Standard fire fighting equipment. Water spray/CO2		

## 6. ACCIDENTAL RELEASE MEASURES

**Spill or Leak Procedures:** Do not allow material to enter sewer system or waterway. Wear personal protective equipment, such as gloves and depending on the quantity a respirator with organic cartridges may be required. Clean up by absorption. Eliminate sources of ignition. Keep unnecessary personnel away. Put clean-up materials in a properly labeled metal drum. Dispose of following all Federal, State and Local regulations. In the EU refer to the Special Waste Regulations.

## 7. HANDLING AND STORAGE

<b>Handling Precautions:</b>	Keep containers tightly closed when not in use. Use care to avoid spills. Wear personal protective equipment. Ground containers from static charge.
<b>Storage Precautions:</b>	Store product in tightly capped original containers in a cool, dry area away from sources of ignition. Refer to product label for specific storage temperature requirements. Rotate stock to ensure use before expiration date on the label.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls:** Face velocity >2.1 cubic feet/minute in confined areas. Exhaust ventilation is recommended to keep exposure limits as low as possible.

### Personal protection:

<b>Eyes:</b>	Chemical safety glasses/goggles. Face shield for splash hazards.
<b>Respirator:</b>	An approved or compliant marked air-purifying respirator with a fume/organic chemical cartridge is recommended where airborne concentrations are expected to be elevated.
<b>Skin:</b>	Compatible chemical resistant gloves.
<b>Other:</b>	Lab coat, eyewash fountain in work area. Avoid the use of contact lenses in high fume/splash areas.
<b>Work/Hygienic Practices:</b>	Maintain good housekeeping. Clean up spills immediately. Good personal hygiene is essential. 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**

<b>Appearance:</b>	Amber	<b>Boiling Point:</b>	177°F
<b>Odor:</b>	Alcoholic	<b>Melting Point:</b>	Not applicable
<b>Specific Gravity:</b>	0.865	<b>pH:</b>	Not available
<b>Vapor Pressure:</b>	33 mm HG @68°C	<b>Solubility in Water:</b>	Insoluble
<b>Vapor Density:</b>	2.1	<b>Evaporation Rate:</b>	1.7
<b>Volatile by Volume:</b>	75%		

**10. STABILITY AND REACTIVITY**

<b>General:</b>	Stable.
<b>Conditions to Avoid:</b>	Direct heat, open flames and storage in aluminum.
<b>Incompatible Materials:</b>	phosphorus, halogens, anhydrides, monomers, aldehydes, trichlorides
<b>Hazardous Decomposition / Combustion:</b>	Carbon dioxide/carbon monoxide.
<b>Hazardous Polymerization:</b>	Will not occur.

**11. TOXICOLOGICAL INFORMATION**

<b>Carcinogenicity:</b>	<b>NTP:</b> No		
	<b>OSHA:</b> No		
	<b>IARC:</b> No		
<b>LD50:</b>	Not established.	<b>LC50:</b>	Not established.

**12. ECOLOGICAL INFORMATION**

Product not tested.

**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.

Shipping: UN 1987, Alcohols, N.O.S., 3, PG II (isopropanol, isobutyl alcohol)

North American Emergency Guide Book – Guide #127                      Flammable label



## 15. REGULATORY INFORMATION

The information in this 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.).

SARA 313 Listing - 40 CFR 372.65: None

All ingredients are listed on the EPA TSCA Inventory.

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

WHMIS: Class B Flammable Division 2 Canadian WHMIS: Class B Division 2 Flammable, D2B Toxic Material Causing Other Toxic Effects (eye irritation in animals).



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

This product has been classified in accordance with Mexican regulations NOM-0180STPS-2015 and NOM-010-STPS-2014.

### Malaysia:

This product has been classified in accordance with: Malaysian – OCCUPATIONAL SAFETY AND HEALTH (CLASSIFICATION, LABELING AND SAFETY DATA SHEET OF HAZARDOUS CHEMICALS) REGULATION OCTOBER 2013 – (CLASS). (GHS)

### In China:

Decree No. 591: Regulations on the Control over Safety of Hazardous Chemicals

GB 30000.2-29-2013, Rules for classification and labeling of chemicals. (GHS)

GB/T 16483-2008, GB/T 17517-2013

This product has been classified using the Chinese Occupational Limit for Hazardous Agents in the Workplace, GBZ2-2007

**16. OTHER INFORMATION**

**HMIS Hazard Rating:**      **Health:**            2  
   **Fire:**                    3  
   **Reactivity:**        0

**Revised Date:**            19 MARCH 2018

**Prepared by:**            Nancy Swarts, Indium Corporation of America

**Approved by:**            Nancy Swarts, Indium Corporation of America

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