

## SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier:WF-1098 FLUXSDS Number:SDS-7000Revised Date:Product Use:Industrial use – Wave Solder Flux (liquid flux)

ate: 20 APRIL 2018

#### **MANUFACTURER:**

#### In America:

The Indium Corporation of America® 34 Robinson Rd., Clinton, New York 13323 Information: (315) 853-4900 nswarts@indium.com

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#### **EMERGENCY PHONE:**

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#### In China:

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2. HAZARI		CATION					
PRIMARY ROUTES OF ENTRY: Carcinogen listed in							
⊗Eye	⊗Inhalation	⊗Skin	⊗Ingestion	NTP	IARC	OSHA	⊗Not Listed
GHS:							
Signal Word: Dan Hazard statemer							
H225	Highly flamma	able liquid ar	nd vapor				
H319	Causes seriou						
H335	May cause res						
H336	May cause dro						
Precautionary st		Swameaa Ul	GIZZII 1000				
P210		m heat/sna	rks/open flames/ho	ot surfaces.	– No smoki	na	
P233	Keep containe			Sundues.			
P240			nd receiving equip	ment			
P261			/gas/mist/vapors/s				
P270			e when using this p				
P273	Avoid release			nouuot			
P280			otective clothing/e	ve protectio	n/face prote	ection	
P362			thing and wash be			500011	
P301 + P314			dical advice/attent		el unwell		
P302 +P352			enty of soap and v				
P304 + 341					sh air and k	keep at rest i	n a position comfortable
	for breathing						···
P305 + 351		IF IN EYES: Rinse continuously with water for several minutes (15 mins)					
Classification – is							
Serious eye dama		- Category 2	2				
Flammable liquide				0			
Specific target or	gan systemic to	kicity (single	exposure) – Cate	gory 3			
POTENTIAL	HEALTH EFF	ECTS:					
Eye Contact:	Vapors may	be irritating,	liquid may cause	irritation or	damage ey	e tissue.	
Ingestion:	May cause ir	May cause irritation.					
Inhalation:	May cause th	May cause throat irritation, headache and nausea.					
Skin Contact:	May cause ir	May cause irritation.					

# NOTE:

The Indium Corporation does not recommend, manufacture, market or endorse any of it's products for human consumption.

Components	% wt	CAS Registry #	PEL mg/m³	TLV-TWA mg/m <sup>3</sup>	TLV-STEL mg/m <sup>3</sup>	
ISOPROPANOL	60-80	67-63-0 (US)	980	983	1230	
		(EU)	N.E.	999	1250	
		(Canada)	N.E	983	1228	
		(Mexico)	N.E.	980	1225	
		(Singapore)	983	-	1230	
		(China)	-	350	700	
PROPRIETARY ACTIVA	TORS 1-16	-	N.E.	N.E.	N.E	
WATER	1-25	7732-18-5	N.E	N.E	N.E.	
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.

Flash Point:	54 F(12C)	Method:	Closed Cup			
Auto-ignition Temperature:		None				
Flammable Limits:		Upper: 12 Lower: 2				
Extinguishing Media:		Use extinguishers appropriate for the surrounding fire conditions (water/dry chemical).				
Special Fire Fighting		Wear standard fire fighting equipment.				
Procedures:						

## 6. ACCIDENTAL RELEASE MEASURES

**Spill or Leak Procedures:** Do not allow chemical material to enter sewer system or waterway. Eliminate sources of ignition. Contain spill and absorb if possible. Wear personal protective equipment. Dispose of following all Federal, State and Local regulations.

## 7. HANDLING AND STORAGE

HandlingKeep containers tightly closed when not in use. Use care to avoid spills. Wear personal<br/>protective equipment. Ground containers. Keep away from sources of ignition.

**Storage Precautions:** Store product in tightly capped original containers in a cool, dry and ventilated area. Refer to product label for specific storage temperature requirements. Rotate stock to ensure use before expiration date on the label. Store away from sources of ignition.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls:** Face velocity >2.1 cubic feet/minute in confined areas. Ventilation should be sufficient to reduce exposure to below exposure levels.

#### **Personal protection:**

**Eyes:** Chemical safety glasses/splash goggles/face shield.

**Respirator:** A NIOSH approved or EU compliant CE marked air-purifying respirator with a fume/organic chemical cartridge is recommended where airborne concentrations are expected to be elevated.

Skin:Compatible chemical resistant gloves for isopropanol.Other:Lab coat, eye-wash fountain in work area. Avoid the use of contact lenses in high fume/splash areas.Work/HygienicMaintain good housekeeping. Clean up spills immediately.Practices: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

Appearance:	Liquid, clear	Boiling Point:	Not established	
Odor:	Alcoholic odor.	Melting Point:	Not applicable	
Specific Gravity:	0.889 g/cc	pH:	6.83	
Vapor Pressure:	Not established			
Vapor Density:	Not established			
				-

10. STABILITY AND REACTIVITY			
General:	Stable.		
Conditions to Avoid:	Direct heat, open flames and storage in aluminum.		
Incompatible Materials:	Strong alkali, halogens, phosphorus, monomers, aldehydes & trichlorides		
Hazardous Decomposition / Combustion:	Carbon dioxide/carbon monoxide.		

Hazardous Polymerization: Will not occur.

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11.TOXICOLOGIC	AL INFORMATION			
Carcinogenicity:	NTP: No OSHA: No IARC: No			
LD50:	Not established.	LC50:	Not established.	
RTECS: Isopropyl alco	ohol NT8050000			

## **12. ECOLOGICAL INFORMATION**

Isopropyl alcohol – 4396 mg/kg (rat) LD50 oral/ 12800 mg/kg (rat) LD50 dermal/ 72.6 mg/l (rat) 4h LC50 inhalation

## 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. Product is flammable and generally is disposed of as hazardous waste.

#### 14. TRANSPORT INFORMATION

Transport in accordance with applicable international regulations and requirements.

Shipping Name: UN1219, Isopropanol, 3, PG II

North America Emergency Guide Book: Guide Page #129



## **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.).

All ingredients are listed on the EPA TSCA Inventory. SARA 313 Listing - 40 CFR 372.65: none

This product has been classified in accordance with the hazard criteria of the Mexican Standards NOM-018-STPS-2015 and NOM-010-STPS-2014.

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

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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 using the Chinese Occupational Exposure Limit for Hazardous Agents in the Workplace, GBZ2-2007.

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).

## **16. OTHER INFORMATION**

HMIS Hazard Rating:	Health:	2	
	Fire:	3	
	Reactivity:	0	
Revised Date:	20 APRIL 2018	3	
Prepared by:	Nancy Swarts, Indium Corporation of America		
Approved by:	Nancy Swarts, Indium Corporation of America		

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