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## **PoP FLUX 8.9HF-LV**

## **SECTION 1: Identification**

## 1.1. Product identifier

## Trade name/designation: PoP FLUX 8.9HF-LV

## Other means of identification:

SDS-4839

## 1.2. Relevant identified uses of the substance or mixture and uses advised against Use of the substance/mixture:

Welding, soldering, and flux products

## 1.3. Details of the supplier of the safety data sheet

# Supplier (manufacturer/importer/only representative/downstream user/ distributor):

#### **Indium Corporation of America**

Americas 34 Robinson Road 13323 Clinton, NY United States

**Telephone:** (315) 853-4900 **Telefax:** (315) 853-1000

**E-mail:** EHS\_Compliance@indium.com **Website:** https://www.indium.com

**E-mail (competent person):** EHS\_Compliance@indium.com

CHEMTREC 24 hrs

## 1.4. Emergency telephone number

Romania, 24h: 40-37-6300026

Norway, 24h: +(47)-21930678

Poland, 24h: 48-223988029

Italy, 24h: 800-789-767

Portugal, 24h: 351-308801773

Hungary, 24h: 36-18088425

Germany, 24h: 0800-181-7059 or (Frankfurt) 49-69643508409

Sweden, 24h: +(46)-852503403

United Kingdom, 24h: 44-870-8200418 and 44-2038073798

Outside USA:, 24h: +1 (703) 527-3887

France, 24h: 33-975181407

USA, 24h: 1 (800) 424-9300

China, 24h: +86 4001-204937

Importer/Only Representative:
Indium Advanced Materials GmbH

Fragnerstrasse 4 84034 Landshut Germany

Telephone: +49 871 4309500 E-mail: EHS\_Compliance@indium.com Website: http://www.indium.com

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## **PoP FLUX 8.9HF-LV**

## **SECTION 2: Hazard(s) Identification**

## 2.1. Classification according to 29 CFR Part 1910.1200

Hazard classes and hazard categories	Hazard statements
Serious eye damage/eye irritation (1)	Causes serious eye damage.
Reproductive toxicity (1B)	May damage fertility or the unborn child.
Respiratory or skin sensitization (Skin sensitization - 1)	May cause an allergic skin reaction.
Respiratory or skin sensitization (Respiratory or skin sensitization)	May cause allergy or asthma symptoms or breathing difficulties if inhaled.

## 2.2. Labelling according to 29 CFR Part 1910.1200 Hazard pictograms:



**GHS07** Exclamation mark



GHS05 Corrosion



GHS08 Health hazard

**Signal word:** Danger **Hazard statements:** 

## Hazard statements for health hazards

May cause an allergic skin reaction.

Causes serious eye damage.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May damage fertility or the unborn child.

#### **Precautionary statements:**

## **Precautionary statements Prevention**

Avoid breathing vapours and spray.

Wear personal protective equipment/face protection.

#### **Precautionary statements Response**

IF SWALLOWED: Call a POISON CENTER/doctor/.../ if you feel unwell.

If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Take off contaminated clothing and wash it before reuse.

#### Special rules for supplemental label elements for certain mixtures:

1.5 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (oral).

50.4 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (dermal).

76.7 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (inhalative).

## **SECTION 3: Composition/information on ingredients**

## 3.2. Mixtures

#### Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name	Concentration
CAS No.: 65997-05-9	Dimerized rosin	40 - ≤ 45 weight-%
CAS No.: 9038-95-3	Polyglycol Ether	30 - ≤ 40 weight-%
CAS No.: 68937-72-4	Carboxylic acids, di-, C4-11	15 - ≤ 25 weight-%
CAS No.: 143-24-8	bis(2-(2-methoxyethoxy)ethyl) ether	4 - < 8 weight-%

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## **PoP FLUX 8.9HF-LV**

## **SECTION 4: First-aid measures**

## 4.1. Description of first aid measures

#### **General information:**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended. Warning First aider: Pay attention to self-protection!

#### Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician. If breathing is irregular or stopped, administer artificial respiration. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator. Get immediate medical advice/attention. Get medical advice/attention if you feel unwell.

### In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

#### After eve contact:

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

#### Following ingestion:

Rinse mouth. Let 1 glass of water be drunken in little sips (dilution effect). Get medical advice/attention if you feel unwell.

#### Self-protection of the first aider:

Use personal protection equipment. No direct artificial respiration to be given by first aider.

## 4.2. Most important symptoms and effects, both acute and delayed

Allergic reactions Serious eye damage/eye irritation Asthmatic complaints Respiratory complaints

## **4.3.** Indication of any immediate medical attention and special treatment needed Treat symptomatically.

## **SECTION 5: Fire-fighting measures**

### 5.1. Extinguishing media

#### Suitable extinguishing media:

Use extinguishers appropriate for the surrounding fire conditions. Water, CO2 or foam media.

### Unsuitable extinguishing media:

none

### 5.2. Special hazards arising from the substance or mixture

May produce toxic fumes of carbon dioxide if burning.

### **Hazardous combustion products:**

In case of fire: Gases/vapours, toxic

## 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

#### 5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## **SECTION 6: Accidental release measures**

## 6.1. Personal precautions, protective equipment and emergency procedures

### 6.1.1. For non-emergency personnel

### **Personal precautions:**

Remove persons to safety.

#### **Protective equipment:**

Wear protective gloves/protective clothing/eye protection/face protection.

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## **PoP FLUX 8.9HF-LV**

#### 6.1.2. For emergency responders

## Personal protection equipment:

Personal protection equipment: see section 8

## 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

## 6.3. Methods and material for containment and cleaning up

#### For containment:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

#### 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

#### 6.5. Additional information

Use appropriate container to avoid environmental contamination.

## **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

#### **Protective measures**

## Advices on safe handling:

Avoid breathing dust/fume/gas/mist/vapours/spray.Clear spills immediately.Wear appropriate personal protective equipment when working or handling material. Always thoroughly wash your hands after handling this product. Wear personal protection equipment (refer to section 8). Avoid contact during pregnancy/while nursing.

## Advices on general occupational hygiene

When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes.

#### 7.2. Conditions for safe storage, including any incompatibilities

#### Technical measures and storage conditions:

Store product in tightly capped original containers in a cool, dry area. Refer to product label and product data sheet for specific storage temperature requirements. Rotate stock to ensure use before expiration date

Keep container tightly closed in a cool, well-ventilated place.

**Storage class (TRGS 510, Germany):** 13 - Non-combustible solids that cannot be assigned to any of the above storage classes

## 7.3. Specific end use(s)

#### **Recommendation:**

Soldering applications

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No data available

#### 8.2. Exposure controls

## 8.2.1. Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations.

## 8.2.2. Personal protection equipment

## **Eye/face protection:**

Eye glasses with side protection EN 166

#### Skin protection:

Tested protective gloves must be worn EN ISO 374 Suitable material: Breakthrough time: min In the case of wanting to use the gloves again, clean them before taking off and air them well. Breakthrough times and swelling properties of the material must be taken into consideration.

## Respiratory protection:

An approved or EU compliant CE marked air-purifying respirator with a fume/organic cartridge is recommended under certain circumstances where airborne concentrations are expected to be elevated.

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## **PoP FLUX 8.9HF-LV**

#### 8.2.3. Environmental exposure controls

No data available

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

## **Appearance**

Physical state: solid Colour: yellow

**Odour:** not determined

## Safety relevant basis data

Parameter	Value	① Method
		② Remark
рН	4 - 8	
Melting point	No data available	
Freezing point	No data available	
Initial boiling point and boiling range	No data available	
Decomposition temperature	No data available	
Flash point	not applicable	
Evaporation rate	No data available	
Auto-ignition temperature	not applicable	
Upper/lower flammability or explosive limits	not applicable	
Vapour pressure	not determined	
Vapour density	not determined	
Density	not determined	
Relative density	not determined	
Bulk density	not determined	
Water solubility	practically insoluble	
Partition coefficient: n-octanol/water	not determined	
Dynamic viscosity	not determined	
Kinematic viscosity	not determined	

## **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

The product is stable under storage at normal ambient temperatures.

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

The product is stable under storage at normal ambient temperatures.

## 10.4. Conditions to avoid

Do not spray on an open flame or other ignition source.

### 10.5. Incompatible materials

Oxidising substances

### 10.6. Hazardous decomposition products

The product is stable under storage at normal ambient temperatures.

## **SECTION 11: Toxicological information**

### Acute oral toxicity:

Based on available data, the classification criteria are not met.

## Acute dermal toxicity:

Based on available data, the classification criteria are not met.

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#### Acute inhalation toxicity:

Based on available data, the classification criteria are not met.

#### Skin corrosion/irritation:

Based on available data, the classification criteria are not met.

#### Serious eye damage/irritation:

Causes serious eye damage.

#### Respiratory or skin sensitisation:

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

#### Germ cell mutagenicity:

Based on available data, the classification criteria are not met.

#### Carcinogenicity:

Based on available data, the classification criteria are not met.

#### Reproductive toxicity:

Based on available data, the classification criteria are not met. May damage fertility. May damage the unborn child.

#### **STOT-single exposure:**

Based on available data, the classification criteria are not met.

#### **STOT-repeated exposure:**

Based on available data, the classification criteria are not met.

#### **Aspiration hazard:**

Based on available data, the classification criteria are not met.

#### Additional information:

No data available

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

#### Aquatic toxicity:

Harmful to aquatic life with long lasting effects.

## 12.2. Persistence and degradability

No data available

## 12.3. Bioaccumulative potential

bis(2-(2-methoxyethoxy)ethyl) ether CAS No.: 143-24-8 Log K<sub>OW</sub>: 0.84

Dimerized rosin CAS No.: 65997-05-9

**Log K<sub>OW</sub>:** > 6.5

**Bioconcentration factor (BCF):** 7,748

#### 12.4. Mobility in soil

No data available

#### 12.5. Results of PBT and vPvB assessment

bis(2-(2-methoxyethoxy)ethyl) ether CAS No.: 143-24-8

Results of PBT and vPvB assessment: -

Carboxylic acids, di-, C4-11 CAS No.: 68937-72-4

Results of PBT and vPvB assessment: -

Dimerized rosin CAS No.: 65997-05-9

Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

**Polyglycol Ether** CAS No.: 9038-95-3

Results of PBT and vPvB assessment: —

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## **PoP FLUX 8.9HF-LV**

## **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

Dispose contaminated cloth rags or paper towels following all applicable governmental regulations.

## **Waste treatment options**

### Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.

## **SECTION 14: Transport information**

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or	ID number		
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.2. UN proper ship	ping name		-
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.3. Transport haza	rd class(es)		-
not relevant	not relevant	not relevant	not relevant
14.4. Packing group			
not relevant	not relevant	not relevant	not relevant
14.5. Environmental hazards			
not relevant	not relevant	not relevant	not relevant
14.6. Special precautions for user			
not relevant	not relevant	not relevant	not relevant

### 14.7. Maritime transport in bulk according to IMO instruments

No data available

## **SECTION 15: Regulatory information**

## 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

## [DE] National regulations

#### Water hazard class

## WGK:

2 - obviously hazardous to water

## [US] National regulations

### California Proposition 65 list of chemicals

Does not contain any chemicals listed under California Proposition 65 chemical list

#### 15.2. Chemical Safety Assessment

No data available

### 15.3. Additional information

Regulation (EC) No. 1005/2009 on substances that lead to the depletion of the ozone layer: No chemicals contained.

## **SECTION 16: Other information, including date of preparation or last revision**

## 16.1. Indication of changes

No data available

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## **PoP FLUX 8.9HF-LV**

## 16.2. Abbreviations and acronyms

ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland

Waterways

ADR European Agreement concerning the International Carriage of Dangerous Goods by Road

BCF Bioconcentration Factor CAS Chemical Abstracts Service

CLP Classification, Labelling and Packaging

EC<sub>50</sub> Effective Concentration 50%

EN European Standard

ICAO International Civil Aviation Organization
 IMDG International Maritime Dangerous Goods
 IMO International Maritime Organization
 ISO International Standards Organisation
 LC50 Lethal (fatal) Concentration 50%

LD<sub>50</sub> Lethal (fatal) Dose 50%

NFPA National Fire Protection Association NOEC No Observed Effect Concentration

OECD Organisation for Economic Cooperation and Development

PBT persistent and bioaccumulative and toxic

REACH Registration, Evaluation and Authorization of Chemicals RID Dangerous goods regulations for transport by rail

SVHC substances of very high concern TRGS Technische Regeln für Gefahrstoffe

UN United Nations

### 16.3. Key literature references and sources for data

Substance name	Туре	source of supply
bis(2-(2-methoxyethoxy)ethyl) ether CAS No.: 143-24-8	30   30	Source: European Chemicals Agency, http://echa.europa.eu/
Dimerized rosin CAS No.: 65997-05-9	50 50	Source: European Chemicals Agency, http://echa.europa.eu/

## 16.4. NFPA Hazard codes



### 16.5. Relevant H-phrases (number and full text)

Hazard statements	
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H360	May damage fertility or the unborn child.

## 16.6. Training advice

No data available

## 16.7. Additional information

No data available