

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 20 Dec 2022

Print date: 20 Dec 2022

Version: 2.0



## Tacflux 007

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Trade name/designation:

Tacflux 007

Other means of identification:

SDS-IN TF007

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

No data available

#### 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>

**Supplier:**

**Indium Advanced Materials GmbH**

Fragnerstrasse 4  
84034 Landshut  
Germany

**Telephone:** +49 871 4309500

**E-mail:** EHS\_Compliance@indium.com

**Website:** <http://www.indium.com>

**E-mail (competent person):** EHS\_Compliance@indium.com  
CHEMTREC 24 hrs

#### 1.4. Emergency telephone number

Romania, 24h: 40-37-6300026

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

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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 20 Dec 2022

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## Tacflux 007

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Respiratory or skin sensitisation ( <i>Skin Sens. 1B</i> )	H317: May cause an allergic skin reaction.	
Serious eye damage/eye irritation ( <i>Eye Irrit. 2</i> )	H319: Causes serious eye irritation.	
Respiratory or skin sensitisation ( <i>Resp. Sens. 1B</i> )	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.	

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



**GHS07**

Exclamation mark



**GHS08**

Health hazard

Signal word: Danger

##### Hazard statements for health hazards

H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.

##### Supplemental hazard information

EUH208	Contains Rosin, oligomers. May produce an allergic reaction.
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##### Precautionary statements Prevention

P261	Avoid breathing vapours and spray.
P280	Wear protective gloves/protective clothing and eye/face protection.

##### Precautionary statements Response

P301 + P312	IF SWALLOWED: Call a doctor if you feel unwell.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P362 + P364	Take off contaminated clothing and wash it before reuse.

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

2.1 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (oral).

4.2 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (dermal).

58.7 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (inhalative).

#### 2.3. Other hazards

No data available

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 20 Dec 2022

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## Tacflux 007

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

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

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 65997-05-9 EC No.: 500-163-2	<b>Rosin, oligomers</b> The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	56 - ≤ 64 weight-%
CAS No.: 9038-95-3	<b>Polyglycol Ether</b> The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	31 - ≤ 35 weight-%
CAS No.: 68603-15-6 EC No.: 271-642-9	<b>Alcohols, C6-12</b> The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	4 - ≤ 15 weight-%
CAS No.: 61788-85-0 EC No.: 500-147-5	<b>Castor oil, hydrogenated, ethoxylated</b> The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	1 - ≤ 10 weight-%

### 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.

##### 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.

##### 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 eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

##### 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.

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

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

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media:

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

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

##### Hazardous combustion products:

In case of fire: Gases/vapours, toxic

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 20 Dec 2022

Print date: 20 Dec 2022

Version: 2.0



## Tacflux 007

### 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.

#### 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:**

Keep container tightly closed. Clear spills immediately. Wash hands thoroughly after handling. Provide adequate ventilation as well as local exhaust at critical locations. Wear personal protection equipment (refer to section 8).

**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):** 12 - non-combustible liquids 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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 20 Dec 2022

Print date: 20 Dec 2022

Version: 2.0



## Tacflux 007

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

No data available

#### 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.

#### 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: Liquid

Colour: yellow

Odour: not determined

#### Safety relevant basis data

Parameter	Value	① Method ② Remark
pH	No data available	
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	> 200 °C	
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	1 g/cm <sup>3</sup>	
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	

### 9.2. Other information

No data available

## 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.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 20 Dec 2022

Print date: 20 Dec 2022

Version: 2.0



## Tacflux 007

### 10.3. Possibility of hazardous reactions

Stable under recommended storage and handling conditions.

### 10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

### 10.5. Incompatible materials

Oxidising agent, strong

### 10.6. Hazardous decomposition products

The product is stable under storage at normal ambient temperatures.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

<b>Rosin, oligomers</b> CAS No.: 65997-05-9 EC No.: 500-163-2
LD <sub>50</sub> oral: >1,000 mg/kg (Rat) OECD Guideline 401 (Acute Oral Toxicity)
LD <sub>50</sub> dermal: >2,000 mg/kg (Rat)
<b>Castor oil, hydrogenated, ethoxylated</b> CAS No.: 61788-85-0 EC No.: 500-147-5
LD <sub>50</sub> oral: >2,000 mg/kg (rat)

#### 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.

#### 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 irritation.

#### Respiratory or skin sensitisation:

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Contains Rosin, oligomers. May produce an allergic 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.

#### 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

### 11.2. Information on other hazards

No data available

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 20 Dec 2022

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## Tacflux 007

### SECTION 12: Ecological information

#### 12.1. Toxicity

<b>Rosin, oligomers</b> CAS No.: 65997-05-9 EC No.: 500-163-2
<b>LC<sub>50</sub></b> : 1.7 mg/L 4 d (fish, Pimephales promelas (fathead minnow)) OECD Guideline 203 (Fish, Acute Toxicity Test)
<b>LC<sub>50</sub></b> : 1.6 mg/L 2 d (crustaceans, Daphnia magna (Big water flea)) OECD Guideline 202 (Daphnia Acute Immobilisation Test)
<b>EC<sub>50</sub></b> : 16.6 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata) OECD Guideline 201 (Alga, Growth Inhibition Test)
<b>NOEC</b> : 6.25 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata) OECD Guideline 201 (Alga, Growth Inhibition Test)
<b>NOEC</b> : 0.625 mg/L 4 d (fish, Pimephales promelas (fathead minnow)) OECD Guideline 203 (Fish, Acute Toxicity Test)
<b>NOEC</b> : 0.625 mg/L 2 d (crustaceans, Daphnia magna (Big water flea)) OECD Guideline 202 (Daphnia Acute Immobilisation Test)
<b>Castor oil, hydrogenated, ethoxylated</b> CAS No.: 61788-85-0 EC No.: 500-147-5
<b>LC<sub>50</sub></b> : >1 mg/L 4 d (fish, Oncorhynchus mykiss (previous name: Salmo gairdneri))
<b>EC<sub>50</sub></b> : >1 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)) OECD Guideline 201 (Alga, Growth Inhibition Test)
<b>EC<sub>50</sub></b> : >1 mg/L 2 d (crustaceans, Daphnia magna) OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

#### 12.2. Persistence and degradability

No data available

#### 12.3. Bioaccumulative potential

<b>Rosin, oligomers</b> CAS No.: 65997-05-9 EC No.: 500-163-2
<b>Log K<sub>OW</sub></b> : > 6.5
<b>Bioconcentration factor (BCF)</b> : 7,748
<b>Castor oil, hydrogenated, ethoxylated</b> CAS No.: 61788-85-0 EC No.: 500-147-5
<b>Log K<sub>OW</sub></b> : 18.5

#### 12.4. Mobility in soil

No data available

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

<b>Rosin, oligomers</b> CAS No.: 65997-05-9 EC No.: 500-163-2
<b>Results of PBT and vPvB assessment:</b> —
<b>Polyglycol Ether</b> CAS No.: 9038-95-3
<b>Results of PBT and vPvB assessment:</b> —
<b>Castor oil, hydrogenated, ethoxylated</b> CAS No.: 61788-85-0 EC No.: 500-147-5
<b>Results of PBT and vPvB assessment:</b> —

#### 12.6. Endocrine disrupting properties

No data available

#### 12.7. Other adverse effects

No data available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Waste treatment options

##### Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

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## Tacflux 007

### SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.1. UN number or ID number</b>			
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.
<b>14.2. UN proper shipping name</b>			
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.
<b>14.3. Transport hazard class(es)</b>			
not relevant	not relevant	not relevant	not relevant
<b>14.4. Packing group</b>			
not relevant	not relevant	not relevant	not relevant
<b>14.5. Environmental hazards</b>			
not relevant	not relevant	not relevant	not relevant
<b>14.6. Special precautions for user</b>			
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

##### 15.1.1. EU legislation

###### Authorisations:

Contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: none

##### 15.1.2. National regulations

###### [DE] National regulations

###### Water hazard class

###### WGK:

3 - Severely water-hazardous

###### [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: not applicable

### SECTION 16: Other information

#### 16.1. Indication of changes

No data available

#### 16.2. Abbreviations and acronyms

No data available



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 20 Dec 2022

Print date: 20 Dec 2022

Version: 2.0



## Tacflux 007

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

Substance name	Type	source of supply
Castor oil, hydrogenated, ethoxylated CAS No.: 61788-85-0 EC No.: 500-147-5	LD <sub>50</sub> oral; LC <sub>50</sub> ; EC <sub>50</sub>	Source: European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a>

### 16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Respiratory or skin sensitisation ( <i>Skin Sens. 1B</i> )	H317: May cause an allergic skin reaction.	
Serious eye damage/eye irritation ( <i>Eye Irrit. 2</i> )	H319: Causes serious eye irritation.	
Respiratory or skin sensitisation ( <i>Resp. Sens. 1B</i> )	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.	

### 16.5. Relevant R-, H- and EUH-phrases (Number and full text)

No data available

### 16.6. Training advice

No data available

### 16.7. Additional information

No data available