



SAFETY DATA SHEET

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

Revision date: 19 Mar 2025

Print date: 22 Jul 2025

Version: 2.2



TACFLUX 020B

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

1.1. Product identifier

Trade name/designation:

TACFLUX 020B

Other means of identification:

SDS-IN TF038

UFI:

9800-U0RP-T00G-1AVN

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

Use of the substance/mixture:

Flux agent

Welding, soldering, and flux products

1.3. Details of the supplier of the safety data sheet

Manufacturer:

Indium Corporation of America

HQ

301 Woods Park Dr Ste 301

13323 Clinton, NY

United States

Telephone: (315) 853-4900

Telefax: (315) 853-1000

E-mail: EHS_Compliance@indium.com

Website: https://www.indium.com

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

E-mail (competent person): EHS_Compliance@indium.com

1.4. Emergency telephone number

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

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

China, 24h: +86 4001-204937

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

Poland, 24h: 48-223988029

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

France, 24h: 33-975181407

Hungary, 24h: 36-18088425

Italy (Emergenza tossicologica), 24h: +34 91 52 04 20

Portugal, 24h: 351-308801773

Romania, 24h: 40-37-6300026

Norway, 24h: +(47)-21930678

Sweden, 24h: +(46)-852503403

Taiwan, 24h: 00801-14-8954

Costa Rica (CHEMTREC), 24h: +506-40003869

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Costa Rica (National Poison Center), 24h: +506 2223 1028

Vietnam (Poison Center), 24h: +84 (0)4 912620 876

Austria, 24h: +(43)-13649237

Czech Republic, 24h: +420 224 919 293 (+420 224 915 402)

Italy (Poison Control Centre), 24h: +39 02 6610 1029

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
flammable liquids (Flam. Liq. 3)	H226: Flammable liquid and vapour.	
Acute toxicity (oral) (Acute Tox. 4)	H302: Harmful if swallowed.	
Respiratory or skin sensitisation (Skin Sens. 1)	H317: May cause an allergic skin reaction.	
Serious eye damage/eye irritation (Eye Irrit. 2)	H319: Causes serious eye irritation.	
Acute toxicity (Inhalative) (Acute Tox. 4)	H332: Harmful if inhaled.	
Respiratory or skin sensitisation (Resp. Sens. 1B)	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
Reproductive toxicity (Repr. 1B)	H360FD: May damage fertility. May damage the unborn child.	

2.2. Label elements

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

Hazard pictograms:



GHS02
Flame



GHS07
Exclamation mark



GHS08
Health hazard

Signal word: Danger

Hazard statements for physical hazards	
H226	Flammable liquid and vapour.
Hazard statements for health hazards	
H302 + H332	Harmful if swallowed or if inhaled.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H360FD	May damage fertility. May damage the unborn child.

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Supplemental hazard information: none

Precautionary statements: Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.

Precautionary statements: Response

P301 + P312	IF SWALLOWED: Call a doctor if you feel unwell.
P302 + P352	IF ON SKIN: Wash with plenty of water and soap.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Special rules for supplemental label elements for certain mixtures:

2.0 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (oral).

7.5 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (dermal).

55.0 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (inhalative).

2.3. Other hazards

No data available

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 REACH No.: 01-2119964093-37-XXXX	Rosin, oligomers The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP]. Acute Toxicity Estimate ATE (oral) > 1,000 mg/kg ATE (dermal) > 2,000 mg/kg	45 - < 55 weight-%
CAS No.: 109-86-4 EC No.: 203-713-7 Index No.: 603-011-00-4	2-methoxyethanol <i>Candidate List of Substances of Very High Concern for Authorisation!</i> Acute Tox. 4* (H332; H312; H302), Flam. Liq. 3 (H226), Repr. 1B (H360FD)  Danger Acute Toxicity Estimate ATE (oral) 500 mg/kg ATE (dermal) 1,100 mg/kg ATE (inhalation, vapour) 11 mg/L ATE (inhalation, dust/mist) 1.5 mg/L	30 - ≤ 45 weight-%
CAS No.: 61788-85-0 EC No.: 500-147-5	Castor oil, hydrogenated, ethoxylated The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP]. Acute Toxicity Estimate ATE (oral) > 2,000 mg/kg	10 - ≤ 15 weight-%

Full text of H- and EUH-phrases: see section 16.

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. Get medical advice/attention if you feel unwell. Get medical advice/attention. If breathing is irregular or stopped, administer artificial

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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. No direct artificial respiration to be given by first aider.

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:

Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media:

none

5.2. Special hazards arising from the substance or mixture

The product itself does not burn.

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.

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:

Collect spillage. Measures to prevent aerosol and dust generation Wet clean or vacuum up solids.

For cleaning up:

Water (with cleaning agent)

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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). Avoid contact during pregnancy/while nursing.

Measures to prevent aerosol and dust generation:

Dust should be exhausted directly at the point of origin.

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): 3 - Flammable liquids

7.3. Specific end use(s)

Recommendation:

Soldering applications

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
PL from 9 Aug 2024	2-methoxyethanol CAS No.: 109-86-4 EC No.: 203-713-7	① 1 ppm (3 mg/m³) ⑤ (może przenikać przez skórę do organizmu) skóra
HTP (FI)	2-methoxyethanol CAS No.: 109-86-4 EC No.: 203-713-7	① 0.5 ppm (1.6 mg/m³) ⑤ (voivat imeytyä ihon läpi) iho
TRGS 900 (DE) from 1 May 2010	2-methoxyethanol CAS No.: 109-86-4 EC No.: 203-713-7	① 1 ppm (3.2 mg/m³) ② 8 ppm (25.6 mg/m³) ⑤ (kann über die Haut aufgenommen werden) DFG, EU, H, Z
IE from 5 Apr 2024	2-methoxyethanol CAS No.: 109-86-4 EC No.: 203-713-7	① 1 ppm ⑤ (may be absorbed through the skin) Sk, Repr 1B, BOELV
ES from 1 Jan 2011	2-methoxyethanol CAS No.: 109-86-4 EC No.: 203-713-7	① 1 ppm (3 mg/m³) ⑤ (puede ser absorbido a través dérmica) vía dérmica, TR1B, VLI, VLB®, r

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Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
VRC (FR) from 3 May 2021	2-methoxyethanol CAS No.: 109-86-4 EC No.: 203-713-7	① 1 ppm (3.2 mg/m ³) ⑤ (peut être absorbé par la peau)
WEL (GB) from 18 Dec 2011	2-methoxyethanol CAS No.: 109-86-4 EC No.: 203-713-7	① 1 ppm (3 mg/m ³) ⑤ (may be absorbed through the skin)
HU from 6 Jan 2012	2-methoxyethanol CAS No.: 109-86-4 EC No.: 203-713-7	① 3.16 mg/m ³ ⑤ (felvehető a bőrön keresztül) b, l, N
HU from 1 Apr 2024	2-methoxyethanol CAS No.: 109-86-4 EC No.: 203-713-7	① 1 ppm (3.16 mg/m ³) ⑤ (felvehető a bőrön keresztül) b, l, Repr., (1B) N
SE from 21 Aug 2018	2-methoxyethanol CAS No.: 109-86-4 EC No.: 203-713-7	① 1 ppm ⑤ (kan absorberas genom huden)
IDLH (US) from 1 Jan 1994	2-methoxyethanol CAS No.: 109-86-4 EC No.: 203-713-7	① 200 ppm
BOELV (EU) from 5 Apr 2022	2-methoxyethanol CAS No.: 109-86-4 EC No.: 203-713-7	① 1 ppm ⑤ (may be absorbed through the skin)
OSHA (US)	2-methoxyethanol CAS No.: 109-86-4 EC No.: 203-713-7	① 25 ppm (80 mg/m ³) ⑤ (may be absorbed through the skin)
NIOSH (US)	2-methoxyethanol CAS No.: 109-86-4 EC No.: 203-713-7	① 0.1 ppm (0.3 mg/m ³) ⑤ (may be absorbed through the skin)
ACGIH (US)	2-methoxyethanol CAS No.: 109-86-4 EC No.: 203-713-7	① 0.1 ppm (0.3 mg/m ³) ⑤ (may be absorbed through the skin)

8.1.2. Biological limit values

Limit value type (country of origin)	Substance name	Limit value	① Parameter ② Test material ③ Time of sampling ④ Remark
TRGS 903 (DE) from 10 Oct 2024	2-methoxyethanol CAS No.: 109-86-4 EC No.: 203-713-7	15 mg/g Creatinin	① Methoxyessigsäure ② Urin ③ am Schichtende am Ende der Arbeitswoche nach mindestens 2-wöchiger Exposition
VLB (ES)	2-methoxyethanol CAS No.: 109-86-4 EC No.: 203-713-7	8 mg/g creatinina	① Acido metoxiacético ② orina ③ en caso de exposición por largo tiempo, fin de exposición o fin de turno ④ después de al menos 2 semanas de trabajo
BLV (EU) from 1 Jun 2014	2-methoxyethanol CAS No.: 109-86-4 EC No.: 203-713-7	8 mg/g creatinine	① Methoxyacetic acid ② urine ③ end of shift at end of work week

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Limit value type (country of origin)	Substance name	Limit value	① Parameter ② Test material ③ Time of sampling ④ Remark
ACGIH-BEL (US) from 1 Jan 2009	2-methoxyethanol CAS No.: 109-86-4 EC No.: 203-713-7	1 mg/g creatinine	① 2-Methoxyacetic acid ② urine ③ end of shift at end of work week

8.1.3. DNEL-/PNEC-values

No data available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Exhaust ventilation is necessary to control airborne levels and to keep exposures as low as possible.

8.2.2. Personal protection equipment

Eye/face protection:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin protection:

Tested protective gloves must be worn EN ISO 374. In the case of wanting to use the gloves again, clean them before taking off and air them well.

Respiratory protection:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

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

Form: Liquid

Colour: yellow

Odour: not determined

flammability: Yes

Safety relevant basis data

Parameter	Value	① Method ② Remark
pH	No data available	
Melting point	not applicable	
Freezing point	No data available	
Initial boiling point and boiling range	No data available	
Decomposition temperature	No data available	
Flash point	45 °C	
Evaporation rate	No data available	
Auto-ignition temperature	not applicable	
Upper/lower flammability or explosive limits	No data available	
Vapour pressure	No data available	
Density	No data available	
Bulk density	No data available	
Water solubility	practically insoluble	

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particle characteristics:

No data available

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. Flammable liquid and vapour. The product itself does not burn.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

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. In case of fire: Gases/vapours, toxic

SECTION 11: Toxicological information

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

Rosin oligomers CAS No.: 65997-05-9 EC No.: 500-163-2
LD₅₀ oral: >1,000 mg/kg (Rat) OECD Guideline 401 (Acute Oral Toxicity)
LD₅₀ dermal: >2,000 mg/kg (Rat)
2-methoxyethanol CAS No.: 109-86-4 EC No.: 203-713-7
LD₅₀ oral: 2,370 mg/kg (Rat)
LD₅₀ dermal: 1,280 mg/kg (Rabbit)
Castor oil hydrogenated, ethoxylated CAS No.: 61788-85-0 EC No.: 500-147-5
LD₅₀ oral: >2,000 mg/kg (rat)

Acute oral toxicity:

Harmful if swallowed.

Acute dermal toxicity:

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

Acute inhalation toxicity:

Harmful if inhaled.

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.

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.

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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

SECTION 12: Ecological information

12.1. Toxicity

Rosin, oligomers CAS No.: 65997-05-9 EC No.: 500-163-2
LC ₅₀ : 1.7 mg/L 4 d (fish, <i>Pimephales promelas</i> (fathead minnow)) OECD Guideline 203 (Fish, Acute Toxicity Test)
LC ₅₀ : 1.6 mg/L 2 d (crustaceans, <i>Daphnia magna</i> (Big water flea)) OECD Guideline 202 (Daphnia Acute Immobilisation Test)
EC ₅₀ : 16.6 mg/L 3 d (Algae/water plant, <i>Pseudokirchneriella subcapitata</i>) OECD Guideline 201 (Alga, Growth Inhibition Test)
NOEC: 6.25 mg/L 3 d (Algae/water plant, <i>Pseudokirchneriella subcapitata</i>) OECD Guideline 201 (Alga, Growth Inhibition Test)
NOEC: 0.625 mg/L 4 d (fish, <i>Pimephales promelas</i> (fathead minnow)) OECD Guideline 203 (Fish, Acute Toxicity Test)
NOEC: 0.625 mg/L 2 d (crustaceans, <i>Daphnia magna</i> (Big water flea)) OECD Guideline 202 (Daphnia Acute Immobilisation Test)
2-methoxyethanol CAS No.: 109-86-4 EC No.: 203-713-7
LC ₅₀ : >10,000 mg/L 4 d (fish, <i>Lepomis macrochirus</i> (Bluegill))
EC ₅₀ : =27,000 mg/L 2 d (crustaceans, <i>Daphnia magna</i> (Big water flea))
ErC ₅₀ : =25,000 mg/L 3 d (Algae/water plant, <i>Pseudokirchneriella subcapitata</i>)
Castor oil, hydrogenated, ethoxylated CAS No.: 61788-85-0 EC No.: 500-147-5
LC ₅₀ : >1 mg/L 4 d (fish, <i>Oncorhynchus mykiss</i> (previous name: <i>Salmo gairdneri</i>))
EC ₅₀ : >1 mg/L 3 d (Algae/water plant, <i>Pseudokirchneriella subcapitata</i> (previous names: <i>Raphidocells subcapitata</i> , <i>Selenastrum capricornutum</i>)) OECD Guideline 201 (Alga, Growth Inhibition Test)
EC ₅₀ : >1 mg/L 2 d (crustaceans, <i>Daphnia magna</i>) OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

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

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

Rosin, oligomers CAS No.: 65997-05-9 EC No.: 500-163-2
Results of PBT and vPvB assessment: —
2-methoxyethanol CAS No.: 109-86-4 EC No.: 203-713-7
Results of PBT and vPvB assessment: —
Castor oil, hydrogenated, ethoxylated CAS No.: 61788-85-0 EC No.: 500-147-5
Results of PBT and vPvB assessment: —

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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.

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			
UN 1188	UN 1188	UN 1188	UN 1188
14.2. UN proper shipping name			
ETHYLENE GLYCOL MONOMETHYL ETHER	ETHYLENE GLYCOL MONOMETHYL ETHER	ETHYLENE GLYCOL MONOMETHYL ETHER	ETHYLENE GLYCOL MONOMETHYL ETHER
14.3. Transport hazard class(es)			
 3	 3	 3	 3
14.4. Packing group			
III	III	III	III
14.5. Environmental hazards			
No	No	No	No
14.6. Special precautions for user			
Limited quantity (LQ): 5 L Excepted Quantities (EQ): E1 Hazard identification number (Kemler No.): 30 Classification code: F1 Tunnel restriction code: (D/E)	Limited quantity (LQ): 5 L Excepted Quantities (EQ): E1 Classification code: F1	Special Provisions: - Limited quantity (LQ): 5 L Excepted Quantities (EQ): E1 EmS-No.: F-E, S-D	Limited quantity (LQ): Y344 Excepted Quantities (EQ): E1

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: 2-methoxyethanol

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15.1.2. National regulations

[DE] National regulations

Water hazard class

WGK:

2 - obviously hazardous to water

[US] National regulations

California Proposition 65 list of chemicals

WARNING: This product can expose you to chemicals including [2-methoxyethanol] which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Other regulations, restrictions and prohibition regulations

All ingredients are listed on the EPA's TSCA Inventory. This product does not contain any U.S. TSCA PBT chemicals.

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

ACGIH	American Conference of Governmental Industrial Hygienists
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
DNEL	derived no-effect level
EC ₅₀	Effective Concentration 50%
EN	European Standard
ES	Exposure scenario
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Standards Organisation
LC ₅₀	Lethal (fatal) Concentration 50%
LD ₅₀	Lethal (fatal) Dose 50%
MAK	Maximum concentration in the workplace air (CH)
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety & Health
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Cooperation and Development
OSHA	Occupational Safety & Health Administration
PBT	persistent and bioaccumulative and toxic
PNEC	Predicted No Effect Concentration
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

SAFETY DATA SHEET

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

Revision date: 19 Mar 2025

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Version: 2.2



TACFLUX 020B

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 ₅₀ oral; LC ₅₀ ; EC ₅₀	Source: European Chemicals Agency, http://echa.europa.eu/

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
flammable liquids (Flam. Liq. 3)	H226: Flammable liquid and vapour.	
Acute toxicity (oral) (Acute Tox. 4)	H302: Harmful if swallowed.	
Respiratory or skin sensitisation (Skin Sens. 1)	H317: May cause an allergic skin reaction.	
Serious eye damage/eye irritation (Eye Irrit. 2)	H319: Causes serious eye irritation.	
Acute toxicity (inhalative) (Acute Tox. 4)	H332: Harmful if inhaled.	
Respiratory or skin sensitisation (Resp. Sens. 1B)	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
Reproductive toxicity (Repr. 1B)	H360FD: May damage fertility. May damage the unborn child.	

16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements
H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H332 Harmful if inhaled.
H360FD May damage fertility. May damage the unborn child.

16.6. Training advice

No data available

16.7. Additional information

No data available