

1 Identification

- **Product identifier**
- **Product name:** **IonoPlus 3000-US**
- **Other means of identification**
- **Product code:** A100510
- **Relevant identified uses of the substance or mixture and uses advised against** —
- **Application of the substance / the mixture** Industrial use
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:** oelheld GmbH
Ulmer Str. 133-139
70188 Stuttgart
GERMANY
Tel.: +49-(0)711-16863-0
Fax.: +49-(0)711-16863-3500
E-Mail: hutec@oelheld.de
Internet: www.oelheld.com
- **Imported by:** oelheld U.S., Inc.
1100 Wesemann Drive
West Dundee, Illinois (US) - 60118

Phone: +1-847-531-8501 Email: hutec-us@oelheld.com
FAX: +1-847-531-8511 www.oelheld.com
- **Information department:** Phone: +1-847-531-8501
- **Emergency telephone number:** In the event of a medical or chemical emergency contact VelocityEHS[®]
North America 1-800-255-3924 or Worldwide Intl. +1-813-248-0585


2 Hazard(s) identification


- **Classification of the substance or mixture**



GHS08 Health hazard

Aspiration hazard 1 H304 May be fatal if swallowed and enters airways.

- **Label elements**
- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**


GHS08
- **Signal word** Danger
- **Hazard-determining components of labeling:** Hydrocarbons, C5-C20, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics
Paraffin oil
- **Hazard statements** H304 May be fatal if swallowed and enters airways.
- **Precautionary statements** P301+P310 If swallowed: Immediately call a poison center/doctor.
P331 Do NOT induce vomiting.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Information pertaining to particular dangers for man and environment:**
- **Classification system:**
- **NFPA ratings (scale 0 - 4)**


Health = 1
Fire = 1
Reactivity = 0
- **HMIS-ratings (scale 0 - 4)**

HEALTH	1
FIRE	1
REACTIVITY	0

Health = 1
Fire = 1
Reactivity = 0
- **Other hazards** The NFPA- and the HMIS-ratings range from 0 (least severe hazard) to 4 (most severe hazard).
NFPA and HMIS are regulations in the USA.

(Contd. on page 2)

Safety Data Sheet
acc. to OSHA HCS

Date of issue: 05/28/2025

Version 21

Reviewed on 05/28/2025

Product name: IonoPlus 3000-US

(Contd. of page 1)

NFPA: National Fire Protection Association
HMIS: Hazardous Material Identification System
Personal protective equipment (PPE) Codes: We recommend the following personal protection:
HMIS Letter B - Required Equipment: Safety glasses, gloves

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

64771-72-8	Paraffins (petroleum), normal C5-20 Aspiration hazard 1, H304	25-50%
	Hydrocarbons, C12-C20, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics Aspiration hazard 1, H304	25-50%
64742-46-7	Distillates (petroleum), hydrotreated middle Aspiration hazard 1, H304	
64742-47-8	Distillates (petroleum), hydrotreated light Aspiration hazard 1, H304	
8042-47-5	White mineral oil (petroleum) Aspiration hazard 1, H304	

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.
For substances with limit values see section 8: Exposure controls/personal protection.

4 First-aid measures

- **Description of first aid measures**
- **General information:** Remove any clothing soiled by the product.
In case of occurring of symptoms or in doubt consult a doctor.
If a doctor is consulted show this material safety data sheet.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After ingestion:** Do not induce vomiting; immediately call for medical help.
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing media:** CO₂, extinguishing powder or water spray. Fight larger fire with alcohol resistant foam.
- **For safety reasons unsuitable extinguishing media:** Water with full jet
- **Special hazards arising from the substance or mixture** In certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:
Carbon monoxide (CO)
- **Advice for firefighters** Wear self-contained respiratory protective device.
- **Protective equipment:** Cool endangered receptacles with water spray.
- **Additional information** Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Ensure adequate ventilation
Particular danger of slipping on leaked/spilled product.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
Do not allow to penetrate the ground/soil.
Keep contaminated washing water and dispose of appropriately.

(Contd. on page 3)

US-

Safety Data Sheet
acc. to OSHA HCS

Date of issue: 05/28/2025

Version 21

Reviewed on 05/28/2025

Product name: IonoPlus 3000-US

(Contd. of page 2)

- **Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
Remove from the water surface (e.g. skim or suck off).

· **Protective Action Criteria for Chemicals**

· **PAC-1:**
None of the ingredients is listed.

· **PAC-2:**
None of the ingredients is listed.

· **PAC-3:**
None of the ingredients is listed.

- **Reference to other sections** See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Precautions for safe handling** Ensure good ventilation/exhaust at the workplace.
Open and handle receptacle with care.
Recommendation: Level of dielectric over the place of erosion min. 50 mm.
- **Information about protection against explosions and fires:** Fumes can combine with air to form an explosive mixture above the flash point.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Protect from heat, direct sunlight and UV-rays.
Store in cool, dry conditions in well sealed receptacles.
At temperatures below approx. 32°F the product may crystallize and get solid. In this case warm up slightly before use.
Storage stability under the described conditions at least 24 months.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Control parameters**
- **Components with limit values that require monitoring at the workplace:** TLV (oil mist): TWA: 5 mg/m³ STEL: 10 mg/m³ (ACGIH)

8042-47-5 White mineral oil (petroleum)
TWA (ACGIH) (USA) | Long-term value: 5 mg/m³

- **Exposure controls**
- **Appropriate engineering controls** No further data; see section 7.
- **Personal protective equipment:**
- **General protective and hygienic measures:** The usual precautionary measures for handling chemicals should be followed.
Wash hands before breaks and at the end of work.
Do not carry product impregnated cleaning cloths in trouser pockets.
Avoid close or long term contact with the skin.
- **Breathing equipment:** Use suitable respiratory protective device in case of insufficient ventilation or in cases where overexposures may occur.
- **Protection of hands:** Protective gloves
- **Material of gloves** Nitrile rubber, NBR
- **Penetration time of glove material** At a glove thickness of about 0,4 mm the value of the permeation breakthrough in accordance with EN 374 is for chemically similar products according to the manufacturer: >480 min. (Degradation EN 374 rating class 6)
These statements are based on laboratory test methods which could not simulate working conditions exactly. The responsibility rests with the end user for choosing the right gloves for his application.
- **Eye protection:** Goggles recommended during refilling.
- **Body protection:** Protective work clothing

Safety Data Sheet
acc. to OSHA HCS

Date of issue: 05/28/2025

Version 21

Reviewed on 05/28/2025

Product name: IonoPlus 3000-US

(Contd. of page 3)

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

- Physical state: Liquid
- Color: Fluorescent green
- Odor: Mild
- Melting point/Melting range: Undetermined.
- Boiling point/Boiling range: >250 °C (>482 °F)
- Flammability: Not applicable.
- Explosion limits:
- Lower: 0.45 Vol %
- Upper: 7 Vol %
- Flash point: 120 °C (248 °F)
- Auto igniting: >220 °C (>428 °F)
- Decomposition temperature: Not determined.
- pH-value: Not applicable.
- Viscosity:
- Kinematic at 40 °C (104 °F): 2.5 mm²/s
- Kinematic at 40°C (104 °F):
- Solubility in / Miscibility with
- Water: Not miscible or difficult to mix.
- Partition coefficient (n-octanol/water): Not determined.
- Vapor pressure: Not determined.
- Vapor pressure:
- Density at 15 °C (59 °F): 0.79 g/cm³ (6.593 lbs/gal)
- Relative density: Not determined.
- Particle characteristics: Not applicable.
- Other information
- Appearance:
- Form: Fluid
- Danger of explosion: Product is not explosive. However formation of explosive air/vapour mixtures above the flash point or in case of strong misting is possible.
- Solvent content:
- VOC (EC): None
- VOC (California): None
- Additional information: The data of the explosion limits are based on the base oil.

10 Stability and reactivity

- Reactivity: No further relevant information available.
- Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions: No dangerous reactions known.
- Conditions to avoid: See above
- Incompatible materials: Strong oxidizing agents
- Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- Information on toxicological effects
- Acute toxicity: Based on available data, the classification criteria are not met.
- LD/LC50 values that are relevant for classification: ATE mix:
Oral: Acute toxicity estimate: > 2,000 mg/kg
Dermal: Acute toxicity estimate: > 2,000 mg/kg
Inhalation: Acute toxicity estimate: for gases > 20,000 ppmV; for vapours > 20 mg/l; for dust/mist > 5 mg/l
- Primary irritant effect: on the skin: Repeated exposure may cause skin dryness or cracking.
Based on available data, the classification criteria are not met.
- on the eye: Based on available data, the classification criteria are not met.
- Sensitization: Based on available data, the classification criteria are not met.
- 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.

(Contd. on page 5)

Safety Data Sheet
acc. to OSHA HCS

Date of issue: 05/28/2025

Version 21

Reviewed on 05/28/2025

Product name: IonoPlus 3000-US

(Contd. of page 4)

- **Aspiration hazard** May be fatal if swallowed and enters airways.
- **Additional toxicological information:**
- **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

See also Section 15.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Other adverse effects**
- **Behavior in sewage processing plants:** The product can be mechanically separated.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:** Delivery of waste oil to officially authorized collectors only.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **UN-Number**
- **DOT, ADR, IMDG, IATA** Void

- **UN proper shipping name**
- **DOT, ADR, IMDG, IATA** Void

- **Transport hazard class(es)**
- **DOT**
- **Class** Void
- **Label** Void.
- **ADR**
- **Class** Void
- **Label** Void
- **ADN/R Class:** Void
- **IMDG, IATA**
- **Class** Void
- **Label** Void.

- **Packing group**
- **DOT, ADR, IMDG, IATA** Void

- **Environmental hazards:**
- **Marine pollutant:** No

- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

- **Transport/Additional information:** Not dangerous according to the above specifications.
- **DOT**
- **Remarks:** Void.
- **ADR**
- **Excepted quantities (EQ):** Void
- **Limited quantities (LQ)** Void
- **Transport category** Void
- **Tunnel restriction code** Void

(Contd. on page 6)

Safety Data Sheet
acc. to OSHA HCS

Date of issue: 05/28/2025

Version 21

Reviewed on 05/28/2025

Product name: IonoPlus 3000-US

(Contd. of page 5)

- **IMDG**
- **Limited quantities (LQ)** Void
- **Excepted quantities (EQ)** Void
- **IATA**
- **Remarks:** Void.
- **Special precautions for user** Not applicable.
- **UN "Model Regulation":** Void

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenicity categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value)**

See section 8 for information.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

· **Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Reasons for alterations** General revision.
- **Relevant phrases** H304 May be fatal if swallowed and enters airways.

· **Department issuing SDS:** Department of Research & Development

· **Date of preparation / last revision** 05/28/2025 / 17

· **Abbreviations and acronyms:**

- EC: European Community
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- ACGIH: American Conference of Governmental Industrial Hygienists
- OEL: Occupational Exposure Limit
- PNOS: Particles Not Otherwise Specified
- STEL: Short Time Exposure Limit
- TLV: Threshold Limit Value
- TWA: Time Weighted Average concentration
- WEEL: Workplace Environmental Exposure Level
- TLV: Threshold limit value
- TWA: Time Weighted Average concentration
- STEL: Short Time Exposure Limit
- IOELV: Indicative Occupational Exposure Limit Value
- OSHA: Occupational Safety & Health Administration of the U.S. Department of Labor
- LOAEL: lowest observed adverse effect level
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EC₅₀: ecotoxic concentration, 50 percent
- NOEC: no observed effect concentrations
- NOELR: No observed effect loading rate
- OECD: the Organisation for Economic Co-operation and Development [coordinates the OECD guidelines for the toxicological testing of chemicals]
- ATE: acute toxicity estimate

(Contd. on page 7)

Safety Data Sheet
acc. to OSHA HCS

Date of issue: 05/28/2025

Version 21

Reviewed on 05/28/2025

Product name: IonoPlus 3000-US

(Contd. of page 6)

NFPA: National Fire Protection Association (USA)
HMS: Hazardous Materials Identification System (USA)
LC₅₀: Lethal concentration, 50 percent
LD₅₀: Lethal dose, 50 percent
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
VOC: Volatile Organic Compounds (USA, EC)
ADR: Accord européen sur le transport des marchandises Dangereuses par Route (European Agreement concerning the
International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
Aspiration hazard 1: Aspiration hazard – Category 1

· * Data compared to the previous
version altered.

US-