

Safety Data Sheet
according to HPR, Schedule 1

Printing date 05/28/2025

Version 21

Reviewed on 05/28/2025

1 Identification

- **Product identifier**
- **Product name:** **IonoPlus 3000-US**
- **Product code:** A100510
- **Application of the substance / the mixture** Industrial use
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:** oelheld GmbH
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70188 Stuttgart
GERMANY
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Fax.: +49-(0)711-16863-3500
E-Mail: hutec@oelheld.de
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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 identification

- **Classification of the substance or mixture**



GHS08 Health hazard

Aspiration Hazard - Category 1 H304 May be fatal if swallowed and enters airways.

- **Label elements**

- **GHS label elements**

- **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.

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 - Category 1, H304	30-60% *
	Hydrocarbons, C12-C20, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics Aspiration Hazard - Category 1, H304	30-60% *
64742-46-7	Distillates (petroleum), hydrotreated middle Aspiration Hazard - Category 1, H304	
64742-47-8	Distillates (petroleum), hydrotreated light Aspiration Hazard - Category 1, H304	
8042-47-5	White mineral oil (petroleum) Aspiration Hazard - Category 1, H304	

* Actual concentration ranges are withheld as a trade secret.

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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.

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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

Protective equipment:

Wear self-contained respiratory protective device.

Additional information

Cool endangered receptacles with water spray.
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.

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).

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

Handling:

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.

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· **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.

· **Specific end use(s)**

Storage stability under the described conditions at least 24 months.
No further relevant information available.

8 Exposure controls/ Personal protection

· **Appropriate engineering controls**

No further data; see section 7.

· **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) | TWA: 5 mg/m³

· **Exposure controls**

· **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:**

· **Material of gloves**

Protective 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)

· **Eye protection:**

Goggles recommended during refilling.

· **Body protection:**

Protective work clothing

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Form:** Fluid
· **Color:** Fluorescent green
· **Odor:** Mild
· **pH-value:** Not applicable.

· **Change in condition**

· **Melting point/Melting range:** Undetermined.
· **Boiling point/Boiling range:** >250 °C (>482 °F)

· **Flash point:** 120 °C (248 °F)

· **Flammability:** Not applicable.

· **Auto igniting:** >220 °C (>428 °F)

· **Decomposition temperature:** Not determined.

· **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.

· **Explosion limits:**

· **Lower:** 0.45 Vol %
· **Upper:** 7 Vol %

· **Vapor pressure:** Not determined.

· **Density at 15 °C (59 °F):** 0.79 g/cm³ (6.593 lbs/gal)

· **Relative density:** Not determined.

· **Solubility in / Miscibility with**

· **Water:** Not miscible or difficult to mix.

· **Partition coefficient (n-octanol/water):** Not determined.

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- **Viscosity:**
 Kinematic at 40 °C (104 °F): 2.5 mm²/s
- **Solvent content:**
 VOC (EC) None
- **Other information**
 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.
- **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.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **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** May be fatal if swallowed and enters airways.

12 Ecological information

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

CDN

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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/TDG, ADR, IMDG, IATA** Void

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

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

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

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

- **Special precautions for user** Not applicable.

- **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/TDG**
- **Remarks:** Void.
- **ADR**
- **Excepted quantities (EQ):** Void
- **Limited quantities (LQ)** Void
- **Transport category** Void
- **Tunnel restriction code** Void
- **IMDG**
- **Limited quantities (LQ)** Void
- **Excepted quantities (EQ)** Void
- **IATA**
- **Remarks:** Void.
- **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.

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· **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 the latest revision of the safety data sheet**

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· **Abbreviations and acronyms:**

EC: European Community
 NLP: no longer polymers
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 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
 OEL: Occupational Exposure Limit
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 LOAEL: lowest observed adverse effect level
 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
 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
 IATA: International Air Transport Association

· * Data compared to the previous version altered.