

1 Identification

- **Product identifier**
- **Product name:** **IonoPlus 3000-US**
- **Product code:** A100510
- **Former product code (till July 2012):** 50109
- **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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GERMANY
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E-Mail: hutec@oelheld.de
Internet: www.oelheld.de
- **Imported by:** oelheld U.S., Inc.
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- **Information department:** Department of research and development
+49-(0)711-16863-72
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- **Emergency telephone number:** For Chemical Emergency
Spill, Leak, Fire, Exposure or Accident
Call CHEMTREC Day or Night
Within USA and Canada: 1-800-424-9300
Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

2 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of synthetic aliphatic hydrocarbons and active substances.

· **Dangerous components:**

64771-72-8	Synthetic aliphatic hydrocarbons Xn R65 R66 Asp. Tox. 1, H304	25-50%
64742-46-7	Synthetic aliphatic hydrocarbons Xn R20-65; Xi R38; N R51/53 Asp. Tox. 1, H304; Acute Tox. 4, H332; Skin Irrit. 2, H315	10-25%

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

3 Hazard(s) identification

- **Classification of the substance or mixture**
- **Information concerning particular hazards for human and environment:** The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **Label elements**
- **Labelling according to EU guidelines:** The product has been classified and marked in accordance with directives on hazardous materials.
- **Code letter and hazard designation of product:** Harmful
- **Hazard-determining components of labeling:** Synthetic aliphatic hydrocarbons
- **Risk phrases:** 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
65 Harmful: may cause lung damage if swallowed.
66 Repeated exposure may cause skin dryness or cracking
- **Safety phrases:** 24 Avoid contact with skin.
61 Avoid release to the environment. Refer to special instructions/Safety data sheets
62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label

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- Hazard description:
- WHMIS classification

The product is not subject to classification according to the Canadian WHMIS (workplace hazardous materials information system).
It means, it's no WHMIS controlled product.

- Classification system:
- NFPA ratings (scale 0 - 4)



Health = 1
Fire = 1
Reactivity = 0

- HMIS-ratings (scale 0 - 4)



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.
NFPA: National Fire Protection Association
HMIS: Hazardous Material Identification System

4 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:
- After skin contact:
- After eye contact:

Supply fresh air; consult doctor in case of complaints.
Immediately wash with water and soap and rinse thoroughly.
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.

5 Fire-fighting measures

- Suitable extinguishing media:
- For safety reasons unsuitable extinguishing media:
- Special hazards arising from the substance or mixture

CO₂, extinguishing powder or water spray. Fight larger fire with alcohol resistant foam.

Water with full jet

- Protective equipment:
- Additional information

In certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:
Carbon monoxide (CO)

Wear self-contained respiratory protective device.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Cool endangered receptacles with water spray.

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.

- Methods and material for containment and cleaning up:

Keep contaminated washing water and dispose of appropriately.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

- Reference to other sections

Dispose contaminated material as waste according to item 13.

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. 40 mm.

- Information about protection against explosions and fires:

Fumes can combine with air to form an explosive mixture above the flash point.

- Storage:

- Requirements to be met by storerooms and receptacles:

Store only in the original receptacle.

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- **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: 24 months.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with limit values that require monitoring at the workplace:** TLV (oil mist): 5 mg/m³
- **Additional information:** The lists that were valid during the creation were used as basis.
- **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 contact with the skin.
- **Breathing equipment:** Not necessary if room is well-ventilated.
Use suitable respiratory protective device in case of insufficient ventilation.
- **Protection of hands:** Protective gloves or protective skin cream
- **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

9 Physical and chemical properties

- **General Information**
- **Appearance:**
 - Form: Fluid
 - Color: Fluorescent green
- **Odor:** Mild
- **Odour threshold:** Not determined.
- **pH-value:** Not applicable.
- **Change in condition**
- **Boiling point/Boiling range:** > 240 °C (> 464 °F)
- **Pour point:** - 15 °C
- **Flash point:** 107 °C (225 °F)
- **Flammability (solid, gaseous):** Not determined.
- **Ignition temperature:** > 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: 6.5 Vol %
- **Vapor pressure:** Not determined.
- **Density at 15 °C (59 °F):** 0.79 g/cm³ (6.593 lbs/gal)
- **Relative density:** Not determined.
- **Vapour density:** Not determined.
- **Evaporation rate:** 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 20 °C (68 °F):** 3.8 mm²/s
 - Kinematic at 40 °C (104 °F):** 2,5 mm²/s
- **Solvent content:**
 - Organic solvents:** None
 - VOC (EC)** None
 - VOC (California)** None

California EPA Rules: This product is exempted in South Coast Air Quality Management District Rule 1144.
- **Other information** Oxidizing properties: not determined.

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Incompatible materials:** Strong oxidizing agents
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**

64771-72-8 Synthetic aliphatic hydrocarbons		
Oral	LD50	> 2000 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rat)
64742-46-7 Synthetic aliphatic hydrocarbons		
Oral	LD50	> 5000 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rabbit)
	LOAEL / 24h	125 + 30 mg/kg (rat (male/female))
	NOAEL / 24h	1000 mg/kg (rabbit)
Inhalative	LC50 / 4h	4.6 mg/l (rat)
- **Primary irritant effect:**
 - **on the skin:** Repeated/long exposure may cause skin dryness and in consequence skin irritations.
 - **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:** The product shows the following dangers according to internally approved calculation methods for preparations:
Harmful
- **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)**

None of the ingredients is listed.

12 Ecological information

- **Aquatic toxicity:**

64742-46-7 Synthetic aliphatic hydrocarbons	
EC 50	> 1000 mg/l (activated sludge organisms)
EL50 / 24h	> 68 mg/l (Daphnia magna)
EbL50 / 24h	38 mg/l (Pseudokirchneriella subcapitata)
LL50 / 96h	65 mg/l (Oncorhynchus mykiss)
- **Persistence and degradability** Not easily biodegradable
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Ecotoxic effects:**
- **Behavior in sewage processing plants:** The product can be mechanically separated.

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13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **European waste catalogue**
- 12 01 07* mineral-based machining oils free of halogens (except emulsions and solutions)
- 15 01 10* packaging containing residues of or contaminated by dangerous substances
- **For the product:** 12 01 07
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
Waste disposal key: 15 01 10

14 Transport information

- **UN-Number**
- **DOT, ADR, ADN, IMDG, IATA** Void
- **UN proper shipping name**
- **DOT, ADR, ADN, IMDG, IATA** Void
- **Transport hazard class(es)**
- **DOT, ADR**
- **Class** Void
- **Label** Void.
- **ADN/R Class:** Void
- **Packing group**
- **DOT, 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.
- **ADR**
- **Excepted quantities (EQ):** Void
- **Limited quantities (LQ)** Void.
- **Transport category** Void.
- **Tunnel restriction code** Void.
- **IMDG** Void.
- **IATA** Void.

15 Regulatory information

- **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.

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· Cancerogenity categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

See section 8 for information.

· AGW (German Maximum Workplace Concentration)

64771-72-8	Synthetic aliphatic hydrocarbons	600 mg/m ³
64742-46-7	Synthetic aliphatic hydrocarbons	600 mg/m ³

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

None of the ingredients is listed.

· WHMIS classification

The product is not subject to classification according to the Canadian WHMIS (workplace hazardous materials information system).
It means, it's no WHMIS controlled product.

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.
- H315 Causes skin irritation.
- H332 Harmful if inhaled.
- R20 Harmful by inhalation.
- R38 Irritating to skin.
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
- R65 Harmful: may cause lung damage if swallowed.
- R66 Repeated exposure may cause skin dryness or cracking

· Department issuing MSDS:

Department of Research & Development

· Date of preparation / last revision

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· Abbreviations and acronyms:

- 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
- VOC: Volatile Organic Compounds (USA, EC)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent

· * Data compared to the previous version altered.