



**1 Identification of the substance/mixture and of the company/undertaking**

- **Product identifier**
- **Product name:** **IonoPlus 3000-US**
- **Product code:** A100510
- **Former product code (till June 2012):** 50109
- **Application of the substance / the preparation** 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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- **Information department:** Department of research and development  
+49-(0)711-16863-71
- **Emergency telephone number:** during hours of business see above  
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see above or contact a Poison Control Center

**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 |  H304; H303; H313 | 25-50% |
| 64742-47-8 | Synthetic aliphatic hydrocarbons |  H304; H313       | 25-50% |
- **Additional information:** For the wording of the listed risk phrases refer to section 16.

**3 Hazards 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 labelling:** Synthetic aliphatic hydrocarbons
- **Risk phrases:** Harmful: may cause lung damage if swallowed.  
Repeated exposure may cause skin dryness or cracking
- **Safety phrases:** Avoid contact with skin.  
If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label
- **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)**

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

HEALTH	1
FIRE	1
REACTIVITY	0

  - Health = 1
  - Fire = 1
  - Reactivity = 0

Printing date 05/31/2012

Version 3

Reviewed on 05/31/2012

Product name: IonoPlus 3000-US

## · Other hazards

*(Contd. of page 1)*

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:

Supply fresh air; consult doctor in case of complaints.

## · After skin contact:

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.

**5 Firefighting measures**

## · Suitable extinguishing media:

CO<sub>2</sub>, 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)

## · Protective equipment:

Wear self-contained respiratory protective device.

## · Additional information

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.

## · Reference to other sections

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
See Section 8 for information on personal protection equipment.  
See Section 7 for information on safe handling.  
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.

## · 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.

USA

*(Contd. on page 3)*

Printing date 05/31/2012

Version 3

Reviewed on 05/31/2012

Product name: IonoPlus 3000-US

(Contd. of page 2)

**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/m<sup>3</sup>
- **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
- **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)
  - Ignition temperature: > 220°C (> 428 °F)
- **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.
- **Density at 15°C (59 °F):** 0.79 g/cm<sup>3</sup> (6.593 lbs/gal)
- **Solubility in / Miscibility with Water:** Not miscible or difficult to mix.
- **Viscosity:**
  - Dynamic: Not determined.
  - Kinematic at 20°C (68 °F): 3.8 mm<sup>2</sup>/s
  - Kinematic at 40°C (104 °F): 2,5 mm<sup>2</sup>/s
- **Solvent content:**
  - Organic solvents: None
  - VOC (EC): None
  - VOC (California): None
- **Other information:** No further relevant information available.

**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.

USA

(Contd. on page 4)

Product name: IonoPlus 3000-US

(Contd. of page 3)

**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)

**64742-47-8 Synthetic aliphatic hydrocarbons**

Oral LD50 > 5000 mg/kg (rat)

Dermal LD50 > 3000 mg/kg (rabbit)

· 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

**12 Ecological information**

· Aquatic toxicity: No further relevant information available.

· Persistence and degradability: Not easily biodegradable

· Behavior in environmental systems:

· Bioaccumulative potential: No further relevant information available.

· Ecotoxicological effects:

· Behavior in sewage processing plants: The product can be mechanically separated.

· Additional ecological information: Water hazard class 1 (Self-assessment): slightly hazardous for water  
Do not allow product to reach ground water, water course or sewage system.

· General notes:

**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.

(Contd. on page 5)

**Product name: IonoPlus 3000-US**

(Contd. of page 4)

- **Transport/Additional information:** Not dangerous according to the above specifications.
- **ADR** 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.

· **Carcinogen categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

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

None of the ingredients is listed.

· **NTP (National Toxicology Program)**

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<sup>3</sup>

· **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.

· **National regulations:**

· **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

**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**

H303 May be harmful if swallowed.  
H304 May be fatal if swallowed and enters airways.  
H313 May be harmful in contact with skin.

· **Department issuing MSDS:**

Department of research & development  
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· **\* Data compared to the previous version altered.**