

**1 Product and company identification**

· **Product details**

· **Product name:** **IonoPlus 3000-US**

· **Product code:** 50109

· **Application of the substance / the preparation** Dielectric

· **Manufacturer/Supplier:** oelheld GmbH  
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· **Information department:** Department of application  
+49-(0)711-16863-71

· **Emergency information:** during hours of business see above  
out of office hours in German (or English):  
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Mr. Speth Tel. +49 71 11 68 63-994  
see above or contact a Poison Control Center

**2 Composition/information on ingredients**

· **Chemical characterization**

· **Description:** Mixture of synthetic aliphatic hydrocarbons and active substances.

· **Dangerous components:**

Synthetic aliphatic hydrocarbons  Xn; R 65-66 50-100%

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

**3 Hazards identification**

· **Hazard description:** Not applicable.

· **WHMIS classification** The product is not subject to classification according to the Canadian WHMIS (workplace hazardous materials information system).

· **Information pertaining to particular dangers for man and environment:** Please note the information of this Material Safety Data Sheet.

· **Classification system:** The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

· **NFPA ratings (scale 0 - 4)**

	Health = 0
	Fire = 1
	Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**

HEALTH	0	Health = 0
FIRE	1	Fire = 1
REACTIVITY	0	Reactivity = 0

· **Additional information:** NFPA: National Fire Protection Association  
HMIS: Hazardous Material Identification System  
The NFPA- and the HMIS-ratings range from 0 (least severe hazard) to 4 (most severe hazard).

**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 Fire-fighting measures**

· **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

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- **Special hazards caused by the material, its products of combustion or resulting gases:**

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

- **Protective equipment:**
- **Additional information**

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

- **Person-related safety precautions:**

Ensure adequate ventilation  
Particular danger of slipping on leaked/spilled product.

- **Measures for environmental protection:**

Do not allow to enter sewers/ surface or ground water.  
Do not allow to penetrate the ground/soil.

- **Measures for cleaning/collecting:**

Keep contaminated washing water and dispose of appropriately.  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

- **Additional information:**

Dispose contaminated material as waste according to item 13.  
See Section 8 for information on personal protection equipment.

## 7 Handling and storage

- **Handling:**

- **Information 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.

## 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:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- **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.

- **Breathing equipment:**

Not necessary if room is well-ventilated.

- **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

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**9 Physical and chemical properties**

## · General Information

Form: Fluid  
Color: Fluorescent green  
Odor: Mild

## · 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)

· Auto igniting: Product is not selfigniting.

· 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>

· Solubility in / Miscibility with Water: Not miscible or difficult to mix.

· pH-value: Not applicable.

## · Viscosity:

Kinematic at 40°C (104°F): 2.5 mm<sup>2</sup>/s  
Kinematic at 20°C (68°F): 3.8 mm<sup>2</sup>/s

## · Solvent content:

Organic solvents: None

**10 Stability and reactivity**

## · Thermal decomposition / conditions

to be avoided: No decomposition if used according to specifications.

· Materials to be avoided: Strong oxidizing agents

· Dangerous reactions: No dangerous reactions known.

· Hazardous decomposition products: No dangerous decomposition products known.

**11 Toxicological information**

## · Acute toxicity:

## · LD/LC50 values that are relevant for classification:

## Synthetic aliphatic hydrocarbons

Oral	LD50	>2000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (-)

## · 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: When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

**12 Ecological information**

· Information about elimination (persistence and degradability): Not easily biodegradable

## · Ecotoxic effects:

· Behavior in sewage processing plants:

The product can be mechanically separated.

## · General notes:

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

**13 Disposal considerations**

## · Product:

· Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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## · European waste catalogue

12 01 07 mineral-based machining oils free of halogens (except emulsions and solutions)

## · Uncleaned packagings:

· Recommendation: Disposal must be made according to official regulations.

## \* 14 Transport information

## · DOT regulations:

· Hazard class: -

## · Land transport ADR/RID (cross-border):

· ADR/RID class: -

## · Maritime transport IMDG:

· IMDG Class: -

· Marine pollutant: No

## · Air transport ICAO-TI and IATA-DGR:

· ICAO/IATA Class: -

· Transport/Additional information: Not dangerous according to the above specifications.

## \* 15 Regulatory information

## · Sara

## · Section 355 (extremely hazardous substances):

None of the ingredient 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.

## · Cancerogenity 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)

None of the ingredients is listed.

## · AGW (German Maximum Workplace Concentration)

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 &amp; Health Administration)

None of the ingredients is listed.

· Product related hazard informations: Observe the general safety regulations when handling chemicals.

## · 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.

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**Product name: IonoPlus 3000-US****· Relevant R-phrases**65 Harmful: may cause lung damage if swallowed.  
66 Repeated exposure may cause skin dryness or cracking*(Contd. of page 4)***· Department issuing MSDS:**Department of application  
+49-(0)711-16863-71**· \* Data compared to the previous  
version altered.**

USA