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**1 Identification of substance**· **Product details**

· **Trade name:** IONOPLUS 3000

· **Article number:** 50101

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

· **Manufacturer/Supplier:** oelheld GmbH  
Ulmer Str. 135-139  
D-70188 Stuttgart  
GERMANY  
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· **Information department:** Department of application: +49-(0)711/16863-71

· **Emergency information:** see above or contact a Poison Control Center

**2 Composition/Data on components**· **Chemical characterization**

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

· **Dangerous components:**  
Void

**3 Hazards identification**

· **Hazard description:** Not applicable.

· **Information pertaining to particular dangers for man and environment:**

No hazards to be particularly mentioned. 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

**4 First aid measures**· **General information:**

Remove any clothing soiled by the product.

· **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 swallowing:**

Do not induce vomiting; immediately call for medical help.

**5 Fire fighting measures**· **Suitable extinguishing agents:**

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fire with alcohol resistant foam.

· **For safety reasons unsuitable extinguishing agents:**

Water with full jet

· **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)  
Sulphur dioxide (SO<sub>2</sub>)

· **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**· **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.

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- **Measures for cleaning/collecting:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Remove from the water surface (e.g. skim or suck off).
  - **Additional information:** 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:** No special measures required.
- **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:** Store in cool, dry conditions in well sealed receptacles.  
Protect from heat, direct sunlight and UV-rays.

## 8 Exposure controls and 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 and protective skin cream
- **Material of gloves:** Nitrile rubber, NBR
- **Penetration time of glove material:** The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Goggles recommended during refilling.
- **Body protection:** Protective work clothing

## 9 Physical and chemical properties

- **General Information**
  - Form:** Fluid
  - Color:** Fluorescent green
  - Odor:** Mild
- **Change in condition**
  - Boiling point/Boiling range:** > 190°C (> 374°F)
  - Pour point:** -15°C (5°F)
- **Flash point:** 110°C (230°F)
- **Ignition temperature:** > 220°C (> 428°F)
- **Auto igniting:** Product is not selfigniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Density at 15°C (59°F):** 0.78 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

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**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.
- **Dangerous products of decomposition:** No dangerous decomposition products known.

**11 Toxicological information**

- **Acute toxicity:**
- **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**

- **Ecotoxic effects:**
- **Behavior in sewage processing plants:** The product can be mechanically separated.
- **General notes:** Do not allow product to reach ground water, water course or sewage system.

**13 Disposal considerations**

- **Product:**
- **Recommendation:** Delivery of waste oil to officially authorized collectors only.
- **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 Regulations**

- **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:**  
None of the ingredients is listed.

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· **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.

· **MAK (German Maximum Workplace Concentration)**

None of the ingredients is listed.

· **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.

· **Product related hazard informations:** The product has been classified and marked in accordance with directives on hazardous materials.· **Hazard-determining components of labelling:** Synthetic aliphatic hydrocarbons· **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.

· **Department issuing MSDS:** Department of application: +49-(0)711/16863-71

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