

Printing date 26.11.2003

Reviewed on 25.11.2003

1 Identification of the substance/preparation and of the company/undertaking

· Product details

· Trade name: **Dielektrikum IONOPLUS IME-ET**

· Article number: 50014

· Application of the substance / the preparation: Dielectric, non water miscible

· Manufacturer/Supplier: oelheld GmbH
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D-70188 Stuttgart
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· Further information obtainable from: Department of application: +49-(0)711/16863-71

· Information in case of emergency: see above or consult the next poison information department

2 Composition/information on ingredients

· Chemical characterization:

· CAS No. Description: Synthetic aliphatic hydrocarbons

· Chemical characterization

· Description: Mixture of substances listed below with nonhazardous additions.

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

3 Hazards identification

· Hazard description:



Xn Harmful

· Information concerning particular hazards for human and environment:

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

R 65 Harmful: may cause lung damage if swallowed.

R 66 Repeated exposure may cause skin dryness or cracking.

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.

Generally the product does not irritate the skin.

· After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing:

Do not induce vomiting; call for medical help immediately.

5 Fire-fighting measures

· Suitable extinguishing agents:

CO₂, 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 substance, its products of combustion or resulting gases:

Under 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

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.

· 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).

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· **Additional information:** See Section 8 for information on personal protection equipment.

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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 fire - and explosion protection:** 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 and direct sunlight.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Ingredients with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:** The usual precautionary measures are to be adhered to when handling chemicals.
Wash hands before breaks and at the end of work.
- **Respiratory protection:** 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:** 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
 - Colour:** Fluorescent green
 - Odour:** Mild
- **Change in condition**
 - Melting point/Melting range:** -60°C
 - Boiling point/Boiling range:** 185°C
- **Flash point:** 63°C
- **Ignition temperature:** > 200°C
- **Self-igniting:** Product is not selfigniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**
 - Lower:** 0.5 Vol %
 - Upper:** 6.5 Vol %
- **Vapour pressure at 20°C:** 0.03 kPa
- **Density at 15°C:** 0.77 g/cm³ (ASTM D 4052)
- **Solubility in / Miscibility with water:** Not miscible or difficult to mix.
- **Viscosity:**
 - Kinematic at 25°C:** 1.7 mm²/s (ASTM D 445)
 - Kinematic at 40°C:** 1.4 mm²/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 decomposition products:** 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.

12 Ecological information

- **Ecotoxicological effects:**
- **Behaviour in sewage processing plants:** The product can be mechanically separated.
- **General notes:** Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
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)
12 01 15	machining sludges other than those mentioned in 12 01 14

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **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

- **Labelling according to EU guidelines:** The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
- **Code letter and hazard designation of product:** Xn Harmful
- **Risk phrases:** 65 Harmful: may cause lung damage if swallowed.
66 Repeated exposure may cause skin dryness or cracking.
- **Safety phrases:** 62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
- **National regulations:**
- **Waterhazard 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