



1 Identification

- **Product identifier**
- **Product name:** IonoPlus 3000 ET
- **Product code:** A100497
- **Former product code (till July 2012):** 50014
- **Application of the substance / the mixture** Industrial use
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:** oelheld GmbH
Ulmer Str. 135-139
70188 Stuttgart
GERMANY
Tel.: +49-(0)711-16863-0
Fax.: +49-(0)711-16863-40
E-Mail: hutec@oelheld.de
Internet: www.oelheld.de
- **Information department:** Department of research and development
+49-(0)711-16863-71
msds@oelheld.de
- **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 the substances listed below with nonhazardous additions.
 - **Dangerous components:**
- | | | | |
|------------|----------------------|--|---------|
| 90622-58-5 | Alkanes, C11-15-iso- |  Xn R65
R66
 Asp. Tox. 1, H304; H227 | 50-100% |
|------------|----------------------|--|---------|
- **Additional information:** IP 346 DMSO extract <3%
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.
 - **Classification system:** The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
-
- **Label elements**
 - **Labelling according to EU guidelines:** Observe the general safety regulations when handling chemicals.
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:** Alkanes, C11-15-iso-
 - **Risk phrases:** 65 Harmful: may cause lung damage if swallowed.
66 Repeated exposure may cause skin dryness or cracking
 - **Safety phrases:** 24 Avoid contact with skin.
62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label
 - **Special labeling of certain preparations:** for bulk-containers there is the CFR 29 valid that means that then a labelling is needed as following:
NA 1993, Combustible liquid, n.o.s. (NAME of the hazard-determining components), PG III
 - **Hazard description:**
 - **WHMIS classification** B3 - Combustible liquid
WHMIS: workplace hazardous materials information system (Canadian)

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



Health = 1
Fire = 2
Reactivity = 0

- HMIS-ratings (scale 0 - 4)



Health = 1
Fire = 2
Reactivity = 0

- Other hazards

The NFPA- and the HMIS-ratings range from 0 (least severe hazard) to 4 (most severe hazard).
The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.
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: Immediately 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
- 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: Cool endangered receptacles with water spray.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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.
Keep contaminated washing water and dispose of appropriately.
- Methods and material for containment and cleaning up: 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).
- Reference to other sections: 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.

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- **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. 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:**

90622-58-5 Alkanes, C11-15-iso-

RCP-TWA (VAPOR.) (USA) | 1200 mg/m³, 171 ppm

- **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. Not necessary if room is well-ventilated.
- **Breathing equipment:**
- **Protection of hands:**



Protective gloves

- **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: 185 °C (365 °F)
- **Pour point** < -40 °C (< -40 °F)
- **Flash point:** 63 °C (145 °F)
- **Flammability (solid, gaseous):** Not applicable.
- **Ignition temperature:** > 200 °C (> 392 °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: 0.5 Vol %
 - Upper: 7 Vol %
- **Vapor pressure at 20 °C (68 °F):** 0.5 hPa
- **Density at 15 °C (59 °F):** 0.77 g/cm³ (6.426 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.

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- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
 - Kinematic at 20 °C (68 °F):** 1.8 mm²/s
 - Kinematic at 40 °C (104 °F):** 1,4 mm²/s
- **Solvent content:**
 - Organic solvents:** ~ 100 %
 - VOC (EC)** ~ 100 %
 - VOC (California)** 765 g/l / 6.38 lb/gl
 - California EPA Rules: not regulated under Rule 1144, but under Rule 1171. Control Equipment necessary.
- **Other information** Oxidising properties: not determined.
- **Additional information** The data of the explosion limits are based on the base oil.

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:**

90622-58-5 Alkanes, C11-15-iso-		
Oral	LD50	> 5000 mg/kg (rat) (OECD 401 equivalent)
Dermal	LD50	> 5000 mg/kg (rabbit) (OECD 402 equivalent)
Inhalative	LC50 / 8h	> 5000 mg/m ³ (rat) (OECD 403 equivalent)
- **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)**

See also Section 15.

12 Ecological information

- **Aquatic toxicity:** No further relevant information available.
- **Acute ecotoxicity:**

90622-58-5 Alkanes, C11-15-iso-	
EL50 / 72h	> 1000 mg/l (Algae)
LL50 / 48h	> 1000 mg/l (Daphnia magna)
LL50 / 96h	> 1000 mg/l (fish)
- **Chronic ecotoxicity:**

90622-58-5 Alkanes, C11-15-iso-	
NOELR / 21d	1.0 mg/l (Daphnia magna)
NOELR / 28d	0.103 mg/l (fish)
- **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:** 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)
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, ADN, IMDG, IATA** Void
- **ADR** 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.
- **DOT**
- **Remarks:** DOT IDENTIFICATION: Not regulated in volumes of less than 119 gallons.

Volumes greater than 119 gallons (≈ 450 liter): Combustible Liquid, N.O.S. (NAME of the hazard-determining components), NA 1993, PG III and must have a worded "COMBUSTIBLE" or numeric "1993" placard on two opposing sides of the unit.

- **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.

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· 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.	
· Carcinogenicity 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)	
90622-58-5 Alkanes, C11-15-iso-	600 mg/m ³
· 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.	

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	H227 Combustible liquid. H304 May be fatal if swallowed and enters airways. 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	06/10/2014 / 7
· 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 CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EC) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent EC50: ecotoxic concentration, 50 percent NOELR: No observed effect loading rate

* **Data compared to the previous version altered.**