

Safety Data Sheet
acc. to OSHA HCS

Printing date 09/13/2018

Version 14


Reviewed on 09/13/2018


1 Identification



- **Product identifier**
- **Product name:** **IonoPlus 3000-US**
- **Product code:** A100510
- **Former product code (till July 2012):** 50109
- **Relevant identified uses of the substance or mixture and uses advised against** —
- **Application of the substance / the mixture** Industrial use
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:** oelheld GmbH
Ulmer Str. 133-139
70188 Stuttgart
GERMANY
Tel.: +49-(0)711-16863-0
Fax.: +49-(0)711-16863-3500
E-Mail: hutec@oelheld.de
Internet: www.oelheld.de
- **Imported by:** oelheld U.S., Inc.
1100 Wesemann Drive
West Dundee, Illinois (US) - 60118

Phone: +1-847-531-8501 Email: hutec-us@oelheld.com
FAX: +1-847-531-8511 www.oelheld.com
- **Information department:** Tel. +49-(0)711-16863-0
msds@oelheld.de
- **Emergency telephone number:** In the event of a medical or chemical emergency contact ChemTel Inc.™
North America 1-800-255-3924 or Worldwide Intl. +1-813-248-0585

2 Hazard(s) identification

- **Classification of the substance or mixture**
-  GHS08 Health hazard
 Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

- **Label elements**
- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**


GHS08
- **Signal word** Danger
- **Hazard-determining components of labeling:** Paraffins (petroleum), normal C5-20
Paraffin oil
- **Hazard statements** H304 May be fatal if swallowed and enters airways.
- **Precautionary statements**
 - P280 Wear protective gloves.
 - P301+P310 If swallowed: Immediately call a poison center/doctor.
 - P331 Do NOT induce vomiting.
 - P405 Store locked up.
 - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Classification system:**
- **NFPA ratings (scale 0 - 4)**
 Health = 1
Fire = 1
Reactivity = 0
- **HMIS-ratings (scale 0 - 4)**


HEALTH	0
FIRE	1
REACTIVITY	0

 Health = 0
Fire = 1
Reactivity = 0
- **Other hazards** 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.

(Contd. on page 2)

Safety Data Sheet
acc. to OSHA HCS

Printing date 09/13/2018

Version 14

Reviewed on 09/13/2018

Product name: IonoPlus 3000-US

(Contd. of page 1)

NFPA: National Fire Protection Association
 HMIS: Hazardous Material Identification System
 Personal protective equipment (PPE) Codes: We recommend the following personal protection:
 HMIS Letter B - Required Equipment: Safety glasses, gloves

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

64771-72-8	Paraffins (petroleum), normal C5-20	Asp. Tox. 1, H304	25-50%
8042-47-5	Paraffin oil	Asp. Tox. 1, H304	25-50%

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

- **Description of 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.
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **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)
- **Advice for firefighters**
- **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 section 13.
Ensure adequate ventilation.
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.

(Contd. on page 3)

Printing date 09/13/2018

Version 14

Reviewed on 09/13/2018

Product name: IonoPlus 3000-US

(Contd. of page 2)

· Protective Action Criteria for Chemicals

· PAC-1:

None of the ingredients is listed.

· PAC-2:

None of the ingredients is listed.

· PAC-3:

None of the ingredients is listed.

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. 50 mm.

· Information about protection against explosions and fires:

Fumes can combine with air to form an explosive mixture above the flash point.

· Conditions for safe storage, including any incompatibilities

· 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.
No further relevant information available.

· Specific end use(s)

8 Exposure controls/personal protection

· Additional information about design of technical systems:

No further data; see section 7.

· Control parameters

· Components with limit values that require monitoring at the workplace:

TLV (oil mist): TWA: 5 mg/m³ STEL: 10 mg/m³ (ACGIH)

8042-47-5 Paraffin oil

TWA (ACGIH) (USA) | Long-term value: 5 mg/m³

· Exposure controls

· 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.
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:

· Material of gloves

Protective 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

US-

(Contd. on page 4)

Product name: **IonoPlus 3000-US**

(Contd. of page 3)

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form: Fluid
Color: Fluorescent green

· **Odor:** Mild
· **Odor threshold:** Not determined.

· **pH-value:** Not applicable.

· **Change in condition**

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: > 250 °C (>482 °F)

· **Flash point:** 107 °C (224.6 °F)

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:** > 220 °C (>428 °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: 0.6 Vol %
Upper: 7.0 Vol %

· **Vapor pressure:** Not determined.

· **Density at 15 °C (59 °F):** 0.79 g/cm³ (6.593 lbs/gal)

· **Relative density** Not determined.

· **Vapor density** Not determined.

· **Evaporation rate** Not determined.

· **Solubility in / Miscibility with**

Water: Not miscible or difficult to mix.

· **Partition coefficient (n-octanol/water):** Not determined.

· **Viscosity:**

Dynamic: Not determined.
Kinematic at 40 °C (104 °F): 2.5 mm²/s

· **Solvent content:**

VOC (EC) None
VOC (California) None

· **Oxidising properties:** Not determined.

· **Other information** No further relevant information available.

· **Additional information** The data of the explosion limits are based on the base oil.

10 Stability and reactivity

· **Reactivity** No further relevant information available.

· **Chemical stability**

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

· **Possibility of hazardous reactions** No dangerous reactions known.

· **Conditions to avoid** See above

· **Incompatible materials:** Strong oxidizing agents

· **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· **Information on toxicological effects**

· **Acute toxicity:**

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

ATE mix:
Oral: Acute toxicity estimate: > 2,000 mg/kg
Dermal: Acute toxicity estimate: > 2,000 mg/kg
Inhalation: Acute toxicity estimate: for gases > 20,000 ppmV; for vapours > 20 mg/l; for dust/mist > 5 mg/l

(Contd. on page 5)

Safety Data Sheet
acc. to OSHA HCS

Printing date 09/13/2018

Version 14

Reviewed on 09/13/2018

Product name: IonoPlus 3000-US

(Contd. of page 4)

64771-72-8 Paraffins (petroleum), normal C5-20

Oral	LD50	>5,000 mg/kg (rat) (OECD 401)
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)

8042-47-5 Paraffin oil

Oral	LD50	>5,001 mg/kg (rat (male/female)) (OECD 401)
	NOAEL	>1,200 mg/kg (rat) (OECD 453)
Dermal	LD50	>2,001 mg/kg (rabbit) (OECD 402)
	NOAEL / 28d	1,000 mg/kg (rabbit (male/female)) (OECD 410)
	NOAEL / 90d	>2,000 mg/kg (rat (male/female)) (OECD 411)
Inhalative	LC50 / 4h	>5,001 mg/l (rat (male/female)) (OECD 403)

- **Primary irritant effect:**
- **on the skin:** Repeated/long exposure may cause skin dryness and in consequence skin irritations.
- **on the eye:** Based on available data, the classification criteria are not met.
- **Sensitization:** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**

• **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

• **Toxicity**

• **Aquatic toxicity:**

8042-47-5 Paraffin oil

LL50 / 40h	>1,000 mg/l (activated sludge organisms)
NOEL / 72h	>100 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
LC50 / 96h	>1,000 mg/l (Leuciscus idus) (OECD 203)

• **Acute ecotoxicity:**

64771-72-8 Paraffins (petroleum), normal C5-20

LL50 / 96h	>1,028 mg/l (Scopthalmus maximus)
EL50 / 72h	>10,000 mg/l (Skeletonema costatum)

8042-47-5 Paraffin oil

LL50 / 48h	>100 mg/l (Daphnia magna) (OECD 202)
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• **Chronic ecotoxicity:**

64771-72-8 Paraffins (petroleum), normal C5-20

NOELR / 21d	>1,000 mg/l (Daphnia magna)
NOELR / 28d	>1,000 mg/l (Oncorhynchus mykiss)

- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Behavior in sewage processing plants:** The product can be mechanically separated.
- **Additional ecological information:**
- **General notes:** Not known to be hazardous to water.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:** Delivery of waste oil to officially authorized collectors only.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

US-

(Contd. on page 6)

Product name: **IonoPlus 3000-US**

(Contd. of page 5)

14 Transport information

- UN-Number
- DOT, ADR, ADN, IMDG, IATA

- UN proper shipping name
- DOT, ADR, ADN, IMDG, IATA

- Transport hazard class(es)
- DOT
- Class
- Label

- ADR
- Class
- Label
- ADN/R Class:

- Packing group
- DOT, ADR, IMDG, IATA

- Environmental hazards:
- Marine pollutant:

- Special precautions for user

- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

- Transport/Additional information:

- ADR
- Excepted quantities (EQ):
- Limited quantities (LQ)
- Transport category
- Tunnel restriction code

- IMDG
- Limited quantities (LQ)
- Excepted quantities (EQ)

- IATA
- Remarks:

- UN "Model Regulation":

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- 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.

· Cancerogenity categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

See section 8 for information.

(Contd. on page 7)

Safety Data Sheet
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Version 14

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Product name: IonoPlus 3000-US

(Contd. of page 6)

<ul style="list-style-type: none"> · 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. · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.
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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.

<ul style="list-style-type: none"> · Relevant phrases · Department issuing SDS: · Date of preparation / last revision · Abbreviations and acronyms: 	<p>H304 May be fatal if swallowed and enters airways.</p> <p>Department of Research & Development 09/13/2018 / 13</p> <p>EC: European Community CAS: Chemical Abstracts Service (division of the American Chemical Society) ACGIH: American Conference of Governmental Industrial Hygienists OEL: Occupational Exposure Limit PNOS: Particles Not Otherwise Specified STEL: Short Time Exposure Limit TLV: Threshold Limit Value TWA: Time Weighted Average concentration WEEL: Workplace Environmental Exposure Level TLV: Threshold limit value TWA: Time Weighted Average concentration STEL: Short Time Exposure Limit IOELV: Indicative Occupational Exposure Limit Value OSHA: Occupational Safety & Health Administration of the U.S. Department of Labor ACGIH: American Conference of Governmental Industrial Hygienists LOAEL: lowest observed adverse effect level GHS: Globally Harmonised System of Classification and Labelling of Chemicals EC50: ecotoxic concentration, 50 percent NOEC: no observed effect concentrations NOELR: No observed effect loading rate OECD: the Organisation for Economic Co-operation and Development [coordinates the OECD guidelines for the toxicological testing of chemicals] ATE: acute toxicity estimate NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health VOC: Volatile Organic Compounds (USA, EC) 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 DOT: US Department of Transportation IATA: International Air Transport Association Asp. Tox. 1: Aspiration hazard – Category 1</p>
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· * Data compared to the previous version altered.

US-