Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 16.07.2015 *Version 11* *Revision: 16.07.2015*

SECTION 1: Identification of the substance/mixture and of the company/undertaking

· **1.1 Product identifier**

· **Trade name:** **IonoPlus IME-MH**

· **Article number:** A100510
· **Former article number (till July 2012):** 50090

· **1.2 Relevant identified uses of the substance or mixture and uses advised against**

· **Application of the substance / the mixture** Industrial use
· **Uses advised against** Games/toys, ornamental objects, fuel

· **1.3 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)711-16863-3500
Internet: www.oelheld.de

· **Further information obtainable from:** Tel. +49-(0)711-16863-0

· **E-mail of the informed person:** msds@oelheld.de (in German or English)

· **1.4 Emergency telephone number:**
during hours of business see above
out of office hours in German (or English):
Dr. Schnödt Tel. +49 71 11 68 63-997
Mr Philipp Storr Tel. +49 71 11 68 63-992
Mr Martin Storr Tel. +49 71 11 68 63-993
Mr Speth Tel. +49 71 11 68 63-994
Mr Philipp Storr Tel. +49 71 11 68 63-996
or consult the next poison information departement

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SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**
· **Classification according to Regulation (EC) No 1272/2008**


GHS08 health hazard

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

· **2.2 Label elements**
· **Labelling according to Regulation (EC) No 1272/2008** The product is classified and labelled according to the CLP regulation.
· **Hazard pictograms**


GHS08

· **Signal word** Danger

· **Hazard-determining components of labelling:**
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.
· **Additional information:** EUH066 Repeated exposure may cause skin dryness or cracking.
· **2.3 Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** The criteria to identify an ingredient as a PBT substance in compliance with REACH are according to our information currently not available.
· **vPvB:** The criteria to identify an ingredient as a vPvB substance in compliance with REACH are according to our information currently not available.

(Contd. on page 2)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 16.07.2015 *Version 11* *Revision: 16.07.2015*

Trade name: IonoPlus IME-MH

(Contd. of page 1)

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SECTION 3: Composition/information on ingredients

· **3.2 Chemical characterisation: Mixtures**
· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 64771-72-8 EINECS: 265-233-4	Paraffins (petroleum), normal C5-20	Asp. Tox. 1, H304	25-50%
CAS: 8042-47-5 EINECS: 232-455-8	Paraffin oil	Asp. Tox. 1, H304	25-50%

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

SECTION 4: First aid measures

· **4.1 Description of first aid measures**
· **General information:** Remove any clothing soiled by the product.
In case of occuring 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 swallowing:** Do not induce vomiting; call for medical help immediately.
· **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
· **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**
· **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
· **5.2 Special hazards arising from the substance or mixture** Under certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:
Carbon monoxide (CO)
· **5.3 Advice for firefighters**
· **Protective equipment:** Wear self-contained respiratory protective device.
· **Additional information** Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Cool endangered receptacles with water spray.

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SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures** Ensure adequate ventilation.
Particular danger of slipping on leaked/spilled product.
· **6.2 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.
· **6.3 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).
· **6.4 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.

SECTION 7: Handling and storage

· **7.1 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.

(Contd. on page 3)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 16.07.2015 *Version 11* *Revision: 16.07.2015*

Trade name: IonoPlus IME-MH

(Contd. of page 2)

· **Information about fire - and explosion protection:** Fumes can combine with air to form an explosive mixture above the flash point.

· **7.2 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. 0 °C the product may cristallize and get solid. In this case warm up slightly before use.
Storage stability under the described conditions: 24 months.
· **7.3 Specific end use(s)** No further relevant information available.

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SECTION 8: Exposure controls/personal protection

· **Additional information about design of technical facilities:** No further data; see item 7.

· **8.1 Control parameters**
· **Ingredients 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.

· **DNELs**		
8042-47-5 Paraffin oil		
Dermal	DNEL systemic (long-term exposure)	220 mg/kg (worker)
Inhalative	DNEL systemic (long-term exposure)	160 mg/m³ (worker)

· **8.2 Exposure controls**
· **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
· **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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SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**
· **General Information**
· **Appearance:**
Form: Fluid
Colour: Fluorescent green
· **Odour:** Odourless
· **Odour threshold:** Not determined.

· **pH-value:** Not applicable.

· **Change in condition**
Melting point/Melting range: Undetermined.
Boiling point/Boiling range: > 250 °C

· **Flash point:** 107 °C

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

· **Ignition temperature:** > 220 °C

· **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.

(Contd. on page 4)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 16.07.2015 *Version 11* *Revision: 16.07.2015*

Trade name: IonoPlus IME-MH

(Contd. of page 3)

· **Explosion limits:**
Lower: 0.6 Vol %
Upper: 7.0 Vol %

· **Vapour pressure:** Not determined.

· **Density at 15 °C:** 0.79 g/cm³
· **Relative density** Not determined.
· **Vapour 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 20 °C: 3.8 mm²/s
Kinematic at 40 °C: 2.5 mm²/s

· **Solvent content:**
VOC (EC) None
· **9.2 Other information** Oxidising properties: not determined.

· **Additional information** The data of the explosion limits are based on the base oil.
The above named properties are measured according to part A of the annex V of the EC-regulation 67/548/EC or according to other comparable methods.

SECTION 10: Stability and reactivity

· **10.1 Reactivity** No further relevant information available.
· **10.2 Chemical stability**
· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **10.3 Possibility of hazardous reactions** No dangerous reactions known.
· **10.4 Conditions to avoid** See above
· **10.5 Incompatible materials:** Strong oxidizing agents
· **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

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SECTION 11: Toxicological information

· **11.1 Information on toxicological effects**
· **Acute toxicity**

· **LD/LC50 values relevant for classification:**		
64771-72-8 Paraffins (petroleum), normal C5-20		
Oral	LD50	> 2000 mg/kg (rat) (OECD 401)
	NOAEL	1000 mg/kg (rat)
	NOAEL / 90d	5000 mg/kg (rat) (OECD 408)
Dermal	LD50	> 2000 mg/kg (rat) (OECD 402)
	NOAEL / 90d	495 mg/kg (rat) (OECD 411)
8042-47-5 Paraffin oil		
Oral	LD50	> 5001 mg/kg (rat (male/female)) (OECD 401)
	NOAEL	> 1200 mg/kg (rat) (OECD 453)
Dermal	LD50	> 2001 mg/kg (rabbit) (OECD 402)
	NOAEL / 28d	1000 mg/kg (rabbit (male/female)) (OECD 410)
	NOAEL / 90d	> 2000 mg/kg (rat (male/female)) (OECD 411)
Inhalative	LC50 / 4hr	> 5001 mg/l (rat (male/female)) (OECD 403)

· **Primary irritant effect:**
· **Skin corrosion/irritation** Repeated/long exposure may cause skin dryness and in consequence skin irritations.
· **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
· **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
· **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
· **Carcinogenicity** Based on available data, the classification criteria are not met.
· **Reproductive toxicity** Based on available data, the classification criteria are not met.
· **STOT-single exposure** Based on available data, the classification criteria are not met.
· **STOT-repeated exposure** Based on available data, the classification criteria are not met.

(Contd. on page 5)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 16.07.2015 *Version 11* *Revision: 16.07.2015*

Trade name: IonoPlus IME-MH

(Contd. of page 4)

· **Aspiration hazard** May be fatal if swallowed and enters airways.

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SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**	
64771-72-8 Paraffins (petroleum), normal C5-20	
EC50 / 3hr	> 100 mg/l (activated sludge organisms)
LL50 / 96hr (static)	> 100 mg/l (Scophthalmus maximus)
NOEL / 28d	> 1000 mg/L (Oncorhynchus mykiss)
8042-47-5 Paraffin oil	
LC50 / 96hr	> 1000 mg/l (Leuciscus idus) (OECD 203)
LL50 / 40h	> 1000 mg/l (activated sludge organisms)
NOEL / 72h	> 100 mg/l (Pseudokirchneriella subcapitata) (OECD 201)

· **Acute ecotoxicity:**	
64771-72-8 Paraffins (petroleum), normal C5-20	
EL50 / 72hr	> 100 mg/l (Skeletonema costatum)
8042-47-5 Paraffin oil	
LL50 / 48hr	> 100 mg/l (Daphnia magna) (OECD 202)

· **12.2 Persistence and degradability** Not easily biodegradable
· **12.3 Bioaccumulative potential** No further relevant information available.
· **12.4 Mobility in soil** No further relevant information available.
· **Ecotoxical effects:**
· **Behaviour in sewage processing plants:** The product can be mechanically separated.
· **Additional ecological information:**
· **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.
· **12.5 Results of PBT and vPvB assessment**
· **PBT:** The criteria to identify an ingredient as a PBT substance in compliance with REACH are according to our information currently not available.
· **vPvB:** The criteria to identify an ingredient as a vPvB substance in compliance with REACH are according to our information currently not available.
· **12.6 Other adverse effects** No further relevant information available.

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SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**
· **Recommendation** Delivery of waste oil to offically authorised 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 packaging:**
· **Recommendation:** Disposal must be made according to official regulations.
Waste disposal key: 15 01 10

SECTION 14: Transport information

· **14.1 UN-Number**
· **ADR, ADN, IMDG, IATA** Void

· **14.2 UN proper shipping name**
· **ADR, ADN, IMDG, IATA** Void

· **14.3 Transport hazard class(es)**

· **ADR**
· **Class** Void
· **Label** Void
· **ADN/R Class:** Void

· **14.4 Packing group**
· **ADR, IMDG, IATA** Void

· **14.5 Environmental hazards:**
· **Marine pollutant:** No

(Contd. on page 6)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 16.07.2015 *Version 11* *Revision: 16.07.2015*

Trade name: IonoPlus IME-MH

(Contd. of page 5)

· **14.6 Special precautions for user**	Not applicable.
· **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**	Not applicable.
· **Transport/Additional information:**	Not dangerous according to the above specifications.
· **ADR**	
· **Excepted quantities (EQ):**	Void
· **Limited quantities (LQ)**	Void
· **Transport category**	Void
· **Tunnel restriction code**	Void
· **IMDG**	Void
· **IATA**	Void
· **UN "Model Regulation":**	-

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SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Labelling according to Regulation (EC) No 1272/2008** The product is classified and labelled according to the CLP regulation.

· **Hazard pictograms**

GHS08

· **Signal word** Danger

· **Hazard-determining components of labelling:** 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.

· **Directive 2012/18/EU** void

· **National regulations:**

· **Breakdown regulations:** The product is not subject to the Hazardous Incidents Ordinance.

· **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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SECTION 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** H304 May be fatal if swallowed and enters airways.

· **Department issuing MSDS:** Department of Research & Development

· **Abbreviations and acronyms:**
REACH: Registration, Evaluation and Authorisation of Chemicals (regulation (EC) No 1907/2006)
PBT: persistent, bioaccumulative, toxic
vPvB: very persistent, very bioaccumulative
EC: European Community
NLP: no longer polymers
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
WEL: Worktime Exposure Limit
TWA: Time Weighted Average concentration
STEL: Short Time Exposure Limit
OEL: Occupational Exposure Limit
TLV: Threshold limit value
TWA: Time Weighted Average concentration
STEL: Short Time Exposure Limit
IOELV: Indicative Occupational Exposure Limit Value
WEL: Worktime Exposure Limit
ACGIH: American Conference of Governmental Industrial Hygienists
DNEL: Derived No-Effect Level (REACH)
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

(Contd. on page 7)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 16.07.2015 *Version 11* *Revision: 16.07.2015*

Trade name: IonoPlus IME-MH

(Contd. of page 6)

OECD: the Organisation for Economic Co-operation and Development [coordinates the OECD guidelines for the toxicological testing of chemicals]
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
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
IATA: International Air Transport Association
Asp. Tox. 1: Aspiration hazard, Hazard Category 1

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