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#### 1 Identification

· Product identifier

IonoVit S · Product name: · Product code: A100504 · Former product code (till July 2012): 50065

· Relevant identified uses of the substance or mixture and uses

advised against

· Application of the substance / the

mixture

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

oelheld GmbH Ulmer Str. 133-139

70188 Stuttgart **GERMANY** 

Industrial use

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#### 2 Hazard(s) identification

· Classification of the substance or

mixture The product is not classified, according to the Globally Harmonized System (GHS).

· Label elements · GHS label elements Void · Hazard pictograms Void Signal word Void · Hazard statements Void

· Classification system:

· NFPA ratings (scale 0 - 4)

Health = 0 Fire = 0Reactivity = 0

· HMIS-ratings (scale 0 - 4)

Health = 0Fire = 0Reactivity = 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. 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 additives and water

· Dangerous components: Void.

· 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.

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· After inhalation:

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In case of occuring of symptoms or in doubt consult a doctor. If a doctor is consulted show this material safety data sheet. Supply fresh air; consult doctor in case of complaints. Wash with water and soap and rinse thoroughly.

• 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 ingestion: Rinse out mouth and then drink plenty of water.

If symptoms persist consult doctor.

 Most important symptoms and effects, both acute and delayed
 Indication of any immediate medical attention and special treatment

No further relevant information available.

**needed** No further relevant information available.

# 5 Fire-fighting measures

· Extinguishing media

• Suitable extinguishing media: Use fire fighting measures that suit the environment.

Product is not inflammable under standard conditions.

For safety reasons unsuitable extinguishing media:

Special hazards arising from the

Special nazards 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.

Void

Additional information 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: Dilute with plenty of water.

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.

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.

· Protective Action Criteria for Chemicals

· PAC-1:	
102-71-6 Triethanolamine	15 mg/m³
· PAC-2:	
102-71-6 Triethanolamine	240 mg/m³
· PAC-3:	
102-71-6 Triethanolamine	1,500 mg/m³

### 7 Handling and storage

· Handling:

• **Precautions for safe handling** Open and handle receptacle with care.

· Information about protection against

**explosions and fires:**No special measures required.

· 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.

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· Further information about storage

conditions:

Protect from frost.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat, direct sunlight and UV-rays.

Storage stability under the described conditions at least 6 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 section 7.

· Control parameters

Components with limit values that

require monitoring at the workplace: The product does contain Alkanolamin in bound form; CAS 102-71-6,

TLV (USA): 5 mg/m<sup>3</sup> EL (Canada): 5 mg/m<sup>3</sup>

EV (Canada): 3,1 mg/m<sup>3</sup>, 0,5 ml/m<sup>3</sup>

LMPE (MX): 5 mg/m<sup>3</sup>

· 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.

· Breathing equipment: Not necessary if room is well-ventilated.

Use suitable respiratory protective device in case of insufficient ventilation or in cases

where overexposures may occur.

Protection of hands: Protective gloves or protective skin cream

· 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

for his application.

Eye protection: Goggles recommended during refilling.

Body protection: Protective work clothing

#### 9 Physical and chemical properties

· Information on basic physical and chemical properties

General Information

· Appearance:

Form: Fluid

Color: Yellow-Amber colouredOdor: Slightly, characteristic.Odor threshold: Not determined.

· pH-value at 20 °C (68 °F): 8.0

· Change in condition

Boiling point/Boiling range: ~ 100 °C (~212 °F)

• Pour point -5 °C (23 °F)

• Flash point: Not applicable.

• Flammability (solid, gaseous): Not applicable.

• Ignition temperature: Not determined.

• Decomposition temperature: Not determined.

· **Danger of explosion:** Product does not present an explosion hazard.

· Explosion limits:

Lower: Not determined.
Upper: Not determined.

Vapor pressure: Not determined.

Density at 20 °C (68 °F): 1.01 g/cm³ (8.428 lbs/gal)

Relative density
Vapor density
Not determined.
Evaporation rate
Not determined.
Not determined.

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· Solubility in / Miscibility with

Water: Fully miscible.

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

· Viscosity:

Kinematic: Not determined.

· Solvent content:

VOC (EC) None VOC (California) None

· Oxidising properties: Not determined.

· Other information No further relevant information available.

## 10 Stability and reactivity

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

· Chemical stability

· Thermal decomposition / conditions

to be avoided: To avoid thermal decomposition do not overheat.

Possibility of hazardous reactions No dangerous reactions known.

· Conditions to avoid See above

· Incompatible materials: Strong oxidizing agents

Hazardous decomposition products: No decomposition if used and stored according to specifications.

#### 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

Primary irritant effect:
on the skin:
on the eye:
No irritant effect.
No irritating effect.

• **Sensitization:** No sensitizing effects known.

· 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

None of the ingredients is listed.

## 12 Ecological information

· Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability Easily biodegradable

Behavior in environmental systems:

Bioaccumulative potential
 Mobility in soil
 Other adverse effects
 No further relevant information available.
 No further relevant information available.

### 13 Disposal considerations

· Waste treatment methods

Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach

sewage system.

· Uncleaned packagings:

• **Recommendation:** Disposal must be made according to official regulations.

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· Recommended cleansing agent: Water, if necessary with cleansing agents.

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14 Transport information	
· UN-Number	
· UN-Number · DOT, ADR, ADN, IMDG, IATA	Void
· UN proper shipping name	
· DOT, ADN, IMDG, IATA · ADR	Void Void
· Transport hazard class(es)	Volu
, ,	
· DOT, ADN, IMDG, IATA · Class	Void
· ADR	
· Class	Void
· Label	Void.
Packing group	M. I
· DOT, ADR, IMDG, IATA	Void
· Environmental hazards: · Marine pollutant:	Not applicable. No
· Special precautions for user	
· 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.
ADR	
· Excepted quantities (EQ):	Void
Limited quantities (LQ)	Void
Transport category Tunnel restriction code	Void Void
· IMDG	v olu
· Limited quantities (LQ)	Void
Excepted quantities (EQ)	Void

Void.

Void

## 15 Regulatory information

· UN "Model Regulation":

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

· IATA · Remarks:

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.

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TLV (Threshold Limit Value established by ACGIH)

See section 8 for information.

· 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.

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

### 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.

**Department issuing SDS:** Department of Research & Development

Date of preparation / last revision

11/30/2018 / 7 EC: European Community

· Abbreviations and acronyms:

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. Departement of Labor

ACGIH: American Conference of Governmental Industrial Hygienists

EC50: ecotoxic concentration, 50 percent NOEC: no observed effect concentrations

NOELR: No observed effect loading rate ATE: acute toxicity estimate

E: Inhalable fraction

A: alveolene penetrant fration
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

· \* Data compared to the previous

version altered.

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