

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Impulse für Mensch und Umwelt

## ZPE400-K21 hebro®dielektric 1

Version: 2.2

Revision Date 31.05.2013

Print Date 06.06.2013

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

#### 1.1 Product identifier

Trade name : ZPE400-K21 hebro®dielektric 1

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

Use of the Sub-  
stance/Mixture : Dielectric

#### 1.3 Details of the supplier of the safety data sheet

Company : hebro chemie GmbH  
Rostocker Str. 40  
41199 Mönchengladbach

Contact person : Wolfgang Schaffers  
Telephone : +49 (0) 2166 6009-0  
Telefax : +49 (0) 2166 6009-99

Contact person product safety : Abteilung Produktsicherheit  
E-mail address : info-produktsicherheit@gmx.de

#### 1.4 Emergency telephone number

: Giftinformationszentrum Erfurt:  
+49 (0) 361 730 730

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (67/548/EEC, 1999/45/EC)

Harmful R65: Harmful: may cause lung damage if swallowed.  
R66: Repeated exposure may cause skin dryness or cracking.

#### 2.2 Label elements

##### Labelling according to EC Directives (1999/45/EC)

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Hazard pictograms :



Harmful

R-phrases(s) :

R65

Harmful: may cause lung damage if swallowed.

R66

Repeated exposure may cause skin dryness or cracking.

S-phrases(s) :

S36

Wear suitable protective clothing.

S60

This material and its container must be disposed of as hazardous waste.

S62

If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Hazardous components which must be listed on the label:

- Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, < 0,03% aromatics
- 64742-47-8 Hydrocarbons, C13 - C18, n-alkanes, isoalkanes, cyclics, < 2 % aromatics

### 2.3 Other hazards

The information required is contained in this Material Safety Data Sheet.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

not applicable

### 3.2 Mixtures

Chemical nature : Isoparaffins

#### Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, < 0,03% aromatics	934-954-2 01-2119826592-36	Xn; R65  Nota H, Nota N	Asp. Tox. 1; H304	>= 25 - < 50
Hydrocarbons, C13 -	64742-47-8	Xn; R65	Asp. Tox. 1;	>= 25 - < 50

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C18, n-alkanes, isoalkanes, cyclics, < 2 % aromatics	921-050-8 01-2119485032-45	R66	H304	
Hydrocarbons, C13 - C16, isoalkanes, cyclics, < 2 % aromatics	918-973-3 01-2119458871-30	Xn; R65 R66	Asp. Tox. 1; H304	>= 25 - < 50

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

For the full text of the Notas mentioned in this Section, see Section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : When symptoms persist or in all cases of doubt seek medical advice.
- If inhaled : Provide fresh air.  
Keep patient warm and at rest.  
If symptoms persist, call a physician.
- In case of skin contact : Take off all contaminated clothing immediately.  
After contact with skin, wash immediately with plenty of soap and water.
- In case of eye contact : Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.  
Seek medical advice.
- If swallowed : Call a physician immediately.  
Keep at rest.  
Do NOT induce vomiting.

#### 4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : Erythema

#### 4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically.  
For specialist advice physicians should contact the Poisons Information Service.

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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry powder  
Water spray jet

Unsuitable extinguishing media : High volume water jet

#### 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Hazardous decomposition products formed under fire conditions.  
Carbon monoxide  
nitrogen oxides (NO<sub>x</sub>)

#### 5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self contained breathing apparatus for fire fighting if necessary.

Further information : Use water spray to cool unopened containers.  
Suppress (knock down) gases/vapours/mists with a water spray jet.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Ensure adequate ventilation.  
Do not breathe vapours, aerosols.  
Remove all sources of ignition.

#### 6.2 Environmental precautions

Environmental precautions : Do not empty into drains.  
Inform the relevant authorities if it enters sewers, aquatic environment or soil.

#### 6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

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Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

See chapter 8 and 13

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Keep away from open flames, hot surfaces and sources of ignition.  
Take precautionary measures against static discharges.  
Avoid contact with skin and eyes.  
Do not breathe vapours or spray mist.  
When using do not eat, drink or smoke.  
For personal protection see section 8.

Advice on protection against fire and explosion : Vapours are heavier than air and may spread along floors.  
Vapours may form explosive mixtures with air.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Follow the water regulations.  
Keep only in the original container in a cool, well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Further information on storage conditions : Keep only in the original container in a cool, well-ventilated place.  
Keep away from heat.  
Keep away from sources of ignition - No smoking.  
Keep at temperatures between - 7°C and 40°C.

Advice on common storage : Incompatible with oxidizing agents.

### 7.3 Specific end uses

Specific use(s) : Dielectric

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

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Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

#### Engineering measures

Handle only in a place equipped with local exhaust (or other appropriate exhaust).

#### Personal protective equipment

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Recommended Filter type:

ABEK-filter

The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

Hand protection : Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374.

Eye protection : Safety glasses with side-shields

Skin and body protection : Protective suit

Protective measures : Follow the skin protection plan.

#### Environmental exposure controls

General advice : Do not empty into drains.  
Inform the relevant authorities if it enters sewers, aquatic environment or soil.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance	: liquid
Colour	: colourless
Odour	: characteristic
Flash point	: 105 °C
Ignition temperature	: no data available

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Lower explosion limit	:	0.5 %(V)
Upper explosion limit	:	6.5 %(V)
Stock Point	:	< -21 °C
	:	not determined
Density	:	0.80 g/cm <sup>3</sup> at 20 °C
Water solubility	:	insoluble
Partition coefficient: n-octanol/water	:	log Pow: 7.0 - 8.7
Viscosity, kinematic	:	2.2 mm <sup>2</sup> /S at 40 °C
		3.4 mm <sup>2</sup> /S at 20 °C

### 9.2 Other information

Explosivity : In use, may form flammable/explosive vapour-air mixture.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No hazards to be specially mentioned.

### 10.2 Chemical stability

The product is chemically stable.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

### 10.4 Conditions to avoid

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Conditions to avoid : Product is stable under appropriate usage.

### 10.5 Incompatible materials

Materials to avoid : Oxidizing agents

### 10.6 Hazardous decomposition products

Hazardous decomposition products : Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), dense black smoke.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Acute oral toxicity

Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, < 0,03% aromatics : LD50: > 5,000 mg/kg  
Species: rat  
Method: OECD Test Guideline 401

##### Acute inhalation toxicity

Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, < 0,03% aromatics : LC50: > 5.27 mg/l  
Exposure time: 4 h  
Species: rat  
Method: OECD Test Guideline 403

##### Acute dermal toxicity

Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, < 0,03% aromatics : LD50: > 3,160 mg/kg  
Species: rabbit  
Method: OECD Test Guideline 402

#### Skin corrosion/irritation

Skin irritation : Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in desiccation of the skin.

#### Serious eye damage/eye irritation

Eye irritation : The liquid splashed in the eyes may cause irritation and reversible damage.

#### Respiratory or skin sensitisation

Sensitisation : This information is not available.

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### Carcinogenicity

Remarks : Not classifiable as a human carcinogen.

### Further information

: According to many years of experience, there are no known harmful effects when handled properly.  
Description of possible hazardous to health effects is based on experience and/or toxicological characteristics of several components.

## SECTION 12: Ecological information

### 12.1 Toxicity

Toxicity to fish : no data available

Toxicity to fish  
Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, < 0,03% aromatics : LC50: > 1,028 mg/l  
Exposure time: 96 h  
Species: Fish  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates  
Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, < 0,03% aromatics : LC50: > 3,193 mg/l  
Exposure time: 48 h

Toxicity to algae  
Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, < 0,03% aromatics : ErC50: > 10,000 mg/l  
Exposure time: 72 h  
Species: Skeletonema costatum

### 12.2 Persistence and degradability

Biodegradability : no data available

### 12.3 Bioaccumulative potential

Bioaccumulation : no data available

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### 12.4 Mobility in soil

Mobility : no data available

### 12.5 Results of PBT and vPvB assessment

no data available

### 12.6 Other adverse effects

Additional ecological information : Do not flush into surface water or sanitary sewer system.  
Avoid subsoil penetration.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations.  
Do not let product enter drains.  
Do not dispose of with domestic refuse.

Packaging : Do not dispose of with domestic refuse.

Contaminated packaging : Dispose of in accordance with local regulations.

Waste Code : 120107 mineral-based machining oils free of halogens (except emulsions and solutions)

## SECTION 14: Transport information

**ADR**  
Not dangerous goods

**IATA**  
Not dangerous goods

**IMDG**  
Not dangerous goods

**RID**  
Not dangerous goods

## SECTION 15: Regulatory information

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

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Other regulations : The product is classified and labelled in accordance with EC directives or respective national laws. Regional or national implementations of GHS may not implement all hazard classes and categories.

### 15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance.

### SECTION 16: Other information

#### Full text of R-phrases referred to under sections 2 and 3

R65 Harmful: may cause lung damage if swallowed.  
R66 Repeated exposure may cause skin dryness or cracking.

#### Full text of H-Statements referred to under sections 2 and 3.

H304 May be fatal if swallowed and enters airways.

#### Full text of Notas referred to under section 3

Nota H The classification and label shown for this substance applies to the dangerous property(ies) indicated by the risk phrase(s) in combination with the category(ies) of danger shown. The manufacturers, importers and downstream users of this substance shall be obliged to carry out an investigation to make themselves aware of the relevant and accessible data which exists for all other properties to classify and label the substance. The final label shall follow the requirements of section 7 of Annex VI of this Directive.

Nota N The classification as a carcinogen need not apply if the full refining history is known and it can be shown that the substance from which it is produced is not a carcinogen. This note applies only to certain complex oil derived substances in Annex I.

#### Further information

The information provided is based on our current knowledge and experience and apply to the product as delivered. Regarding the product properties, these are not guaranteed. The delivery of this safety datasheet does not free the recipient of the product from his own responsibility to follow the relevant rules and regulations concerning this product.

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.