

KWH Mirka Ltd  
66850 Jeppo

Date printed 15.06.2015, Revision 03.06.2015

Version 02. Supersedes version: 01

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

### 1.1 Product identifier

**Polarshine 10 Polishing Compound**

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

#### 1.2.1 Relevant uses

Polishing agent

#### 1.2.2 Uses advised against

For all uses not specified in SECTION 1.2.1

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

**Company** KWH Mirka Ltd  
Pensalavägen 210  
66850 Jeppo / FINLAND  
Phone +358 20 760 2111  
Fax +358 20 760 2290  
Homepage www.mirka.com  
E-mail sales@mirka.com

#### Address enquiries to

**Technical information** sales@mirka.com

**Safety Data Sheet** sdb@chemiebuero.de

### 1.4 Emergency telephone number

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Eye Irrit. 2: H319 Causes serious eye irritation.  
Flam. Liq. 4: H227 Combustible Liquid.

### 2.2 Label elements

The product is required to be labelled in accordance with GHS/CLP-Directives.

#### Hazard pictograms



#### Signal word

WARNING

#### Hazard statements

H319 Causes serious eye irritation.  
H227 Combustible Liquid.

#### Precautionary statements

P280 Wear eye protection/face protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P102 Keep out of reach of children.  
P210 Keep away from flames and hot surfaces.- No smoking.  
P370+P378 In case of fire: Use Water spray, Carbon dioxide, Foam, Dry chemical to extinguish.  
P403+P235 Store in a well-ventilated place. Keep cool.

#### Special labelling

Repeated exposure may cause skin dryness or cracking.

### 2.3 Other hazards

#### Human health dangers

Has a degreasing effect on the skin.

#### Other hazards

Further hazards were not determined with the current level of knowledge.

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### SECTION 3: Composition / Information on ingredients

#### Product-type:

The product is a mixture.

| Range [%] | Substance   |
|-----------|---|
| 10 - < 25 | Distillates (petroleum), hydrotreated light<br>CAS: 64742-47-8, EINECS/ELINCS: 265-149-8, EU-INDEX: 649-422-00-2<br>GHS/CLP: Flam. Liq. 4: H227 - Asp. Tox. 1: H304 |
| 10 - < 20 | Aluminium oxide<br>CAS: 1344-28-1, EINECS/ELINCS: 215-691-6, Reg-No.: 01-2119529248-35-XXXX   |
| 1 - < 10  | White mineral oil (petroleum)<br>CAS: 8042-47-5, EINECS/ELINCS: 232-455-8, Reg-No.: 01-2119487078-27-XXXX<br>GHS/CLP: Asp. Tox. 1: H304                             |
| 1 - < 5   | Glycerol<br>CAS: 56-81-5, EINECS/ELINCS: 200-289-5  |
| 1 - < 3   | Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-,branched /<br>Reg-No.: 02-2119552461-55-0000<br>GHS/CLP: Acute Tox. 4: H302 - Eye Dam. 1: H318          |

#### Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%.  
For full text of H-statements: see SECTION 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

|                            |   |
|----------------------------|---|
| <b>General information</b> | Change soaked clothing.   |
| <b>Inhalation</b>          | Ensure supply of fresh air.   |
| <b>Skin contact</b>        | When in contact with the skin, clean with soap and water.<br>Consult a doctor if skin irritation persists.  |
| <b>Eye contact</b>         | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>If eye irritation persists: Get medical advice/attention. |
| <b>Ingestion</b>           | Supply with medical care.<br>Do not induce vomiting.<br>Rinse out mouth and give plenty of water to drink.  |

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

No information available.

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

Treat symptomatically.  
Forward this sheet to the doctor.

### SECTION 5: Fire-fighting measures

#### 5.1 Extinguishing media

|  |   |
|--|---|
| <b>Suitable extinguishing media</b>              | foam, dry powder, water spray jet, carbon dioxide |
| <b>Extinguishing media that must not be used</b> | Full water jet.                                   |

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

Risk of formation of toxic pyrolysis products.  
Not combusted hydrocarbons.

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### 5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.

Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

## SECTION 6: Accidental release measures

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

Ensure adequate ventilation.

High risk of slipping due to leakage/spillage of product.

### 6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).

Do not discharge into the drains/surface waters/groundwater.

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

Take up with absorbent material (e.g. general-purpose binder).

Dispose of absorbed material in accordance within the regulations.

### 6.4 Reference to other sections

See SECTION 8+13

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Use only in well-ventilated areas.

Avoid spilling in enclosed areas.

Use solvent-resistant equipment.

During mechanical processing vacuuming at processing machines is necessary.

Keep away from all sources of ignition - Refrain from smoking.

Do not eat, drink or smoke when using this product.

Wash hands before breaks and after work.

Use barrier skin cream.

Contaminated work clothing should not be allowed out of the workplace.

Contaminated work clothing should not be allowed out of the workplace.

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

Provide solvent-resistant and impermeable floor.

Prevent penetration into the ground.

Keep only in original container.

Do not store together with oxidizing agents.

Protect from heat/overheating.

Keep container in a well-ventilated place.

Keep container tightly closed.

Keep away from frost.

### 7.3 Specific end use(s)

See product use, SECTION 1.2

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Ingredients with occupational exposure limits to be monitored (US)

| Range [%] | Substance  |
|-----------|--|
| 10 - < 25 | Distillates (petroleum), hydrotreated light                              |
|           | CAS: 64742-47-8, EINECS/ELINCS: 265-149-8, EU-INDEX: 649-422-00-2        |
|           | Long-term exposure: 165 ppm, 1200 mg/m <sup>3</sup> , manufacture        |
| 10 - < 20 | Aluminium oxide  |
|           | CAS: 1344-28-1, EINECS/ELINCS: 215-691-6, Reg-No.: 01-2119529248-35-XXXX |
|           | Long-term exposure: 10 mg/m <sup>3</sup> , (E,N)                         |
| 1 - < 10  | White mineral oil (petroleum)  |
|           | CAS: 8042-47-5, EINECS/ELINCS: 232-455-8, Reg-No.: 01-2119487078-27-XXXX |
|           | Long-term exposure: 5 mg/m <sup>3</sup> , TWA (as mist)                  |

#### DNEL

| Range [%] | Substance  |
|-----------|--|
| 1 - < 10  | White mineral oil (petroleum), CAS: 8042-47-5  |
|           | Industrial, inhalative, Long-term - systemic effects: 160 mg/m <sup>3</sup> .        |
|           | Industrial, dermal, Long-term - systemic effects: 220 mg/kg bw/d.                    |
|           | general population, oral, Long-term - systemic effects: 40 mg/kg bw/d.               |
|           | general population, dermal, Long-term - systemic effects: 92 mg/kg bw/d.             |
|           | general population, inhalative, Long-term - systemic effects: 35 mg/m <sup>3</sup> . |

### 8.2 Exposure controls

|  |   |
|--|---|
| <b>Additional advice on system design</b>                          | Ensure adequate ventilation on workstation.   |
| <b>Eye protection</b>  | Safety glasses.   |
| <b>Hand protection</b>   | The details concerned are recommendations. Please contact the glove supplier for further information.<br>In full contact:<br>> 0,4 mm: Butyl rubber, >480 min (EN 374).<br>In splash contact<br>> 0,4 mm: Nitrile rubber, >480 min (EN 374).  |
| <b>Skin protection</b>   | Protective clothing.<br>Do not inhale gases/vapours/aerosols.<br>Avoid contact with eyes and skin.<br>Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier. |
| <b>Respiratory protection</b>                                      | Breathing apparatus in the event of high concentrations.<br>Short term: filter apparatus, combination filter A-P1.  |
| <b>Thermal hazards</b>   | No information available.   |
| <b>Delimitation and monitoring of the environmental exposition</b> | Comply with applicable environmental regulations limiting discharge to air, water and soil.   |

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|   |  |
|---|--|
| Form                                      | pasty                                  |
| Color                                     | white                                  |
| Odor                                      | mild                                   |
| Odour threshold                           | not determined                         |
| pH-value                                  | 7-8                                    |
| pH-value [1%]                             | not determined                         |
| Boiling point [°C]                        | not determined                         |
| Flash point [°C]                          | > 65°C / > 149°F                       |
| Flammability [°C]                         | not determined                         |
| Lower explosion limit                     | not determined                         |
| Upper explosion limit                     | not determined                         |
| Oxidizing properties                      | no                                     |
| Vapour pressure/gas pressure [kPa]        | not determined                         |
| Density [g/ml]                            | ~1,05                                  |
| Bulk density [kg/m <sup>3</sup> ]         | not applicable                         |
| Solubility in water                       | miscible                               |
| Partition coefficient [n-octanol/water]   | not determined                         |
| Viscosity                                 | >20,5 mm <sup>2</sup> /s (40°C/ 104°F) |
| Relative vapour density determined in air | not determined                         |
| Evaporation speed                         | not determined                         |
| Melting point [°C]                        | not determined                         |
| Autoignition temperature [°C]             | not determined                         |
| Decomposition temperature [°C]            | not determined                         |

### 9.2 Other information

No information available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reactions known if used as directed.

### 10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

### 10.3 Possibility of hazardous reactions

Reactions with oxidizing agents.

### 10.4 Conditions to avoid

Strong heating.

### 10.5 Incompatible materials

See SECTION 10.3.

### 10.6 Hazardous decomposition products

No hazardous decomposition products known.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

|                                 |
|---------------------------------|
| Product                         |
| ATE-mix, oral, > 2000 mg/kg bw. |

| Range [%] | Substance   |
|-----------|---|
| 1 - < 10  | White mineral oil (petroleum), CAS: 8042-47-5                           |
|           | LD50, oral, Rat: > 5000 mg/kg.  |
|           | LD50, dermal, Rabbit: > 2000 mg/kg.                                     |
| 1 - < 5   | Glycerol, CAS: 56-81-5  |
|           | LD50, oral, Rat: 12 600 mg/kg.  |
| 1 - < 3   | Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched / |
|           | LD50, oral, Rat: 500-2000 mg/kg (OECD 423).                             |
| 10 - < 25 | Distillates (petroleum), hydrotreated light, CAS: 64742-47-8            |
|           | LD50, dermal, Rabbit: > 5000 mg/kg bw.                                  |
|           | LD50, oral, Rat: > 5000 mg/kg bw.                                       |
|           | LC50, inhalativ (vapour ), Rat: > 5000 mg/m³.                           |

**Serious eye damage/irritation** not determined

**Skin corrosion/irritation** not determined

**Respiratory or skin sensitisation** not determined

**Specific target organ toxicity — single exposure** not determined

**Specific target organ toxicity — repeated exposure** not determined

**Mutagenicity** not determined

**Reproduction toxicity** not determined

**Carcinogenicity** not determined

**General remarks** Frequent persistent contact with the skin can cause skin irritation.

Toxicological data of complete product are not available.

The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists.

## SECTION 12: Ecological information

### 12.1 Toxicity

| Range [%] | Substance   |
|-----------|---|
| 1 - < 5   | Glycerol, CAS: 56-81-5  |
|           | LC50, (24h), fish: > 5000 mg/l.   |
| 1 - < 3   | Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched / |
|           | LC50, (96h), Leuciscus idus: 1-10 mg/l.                                 |
|           | EC50, (72h), Algae: 1-10 mg/l.  |
|           | EC50, (48h), Daphnia magna: 1-10 mg/l.                                  |
|           | EC10, Bacteria: > 10000 mg/l/17h (DIN 38412 Part 8).                    |
| 10 - < 25 | Distillates (petroleum), hydrotreated light, CAS: 64742-47-8            |
|           | EL0, (48h), Daphnia magna: 1000 mg/l.                                   |
|           | EL0, (72h), Pseudokirchneriella subcapitata: 1000 mg/l.                 |
|           | LL0, (96h), Oncorhynchus mykiss: 1000 mg/l.                             |

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## 12.2 Persistence and degradability

|                                       |                |
|---------------------------------------|----------------|
| Behaviour in environment compartments | not determined |
| Behaviour in sewage plant             | not determined |
| Biological degradability              | not determined |

## 12.3 Bioaccumulative potential

No information available.

## 12.4 Mobility in soil

No information available.

## 12.5 Results of PBT and vPvB assessment

No information available.

## 12.6 Other adverse effects

Ecological data of complete product are not available.  
Do not discharge product unmonitored into the environment.  
No classification on the basis of the calculation procedure of the preparation directive.

## SECTION 13: Disposal considerations

|                               |  |
|-------------------------------|--|
| Product                       | Dispose of as hazardous waste.<br>Coordinate disposal with the authorities if necessary.   |
| Contaminated packaging        | Uncontaminated packaging may be taken for recycling.<br>Packaging that cannot be cleaned should be disposed of as for product.                       |
| RCRA Hazard Class (40CFR 261) | Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities. |

## SECTION 14: Transport

### 14.1 UN number

See SECTION 14.2 in accordance with UN shipping name

### 14.2 UN proper shipping name

Transport by land according to ADR/RID NO DANGEROUS GOODS

DOT Road Shipment Information (49 CFR) UN/NA NA1993 Combustible liquid, n.o.s.  
Footnote: This material is not regulated under 49 CFR in a container of 119 gallon capacity or less when transported solely by land. Comb liq III

Marine transport in accordance with IMDG NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

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#### 14.3 Transport hazard class(es)

See SECTION 14.2 in accordance with UN shipping name

#### 14.4 Packing group

See SECTION 14.2 in accordance with UN shipping name

#### 14.5 Environmental hazards

See SECTION 14.2 in accordance with UN shipping name

#### 14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

#### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

not applicable

### SECTION 15: Regulatory information

#### US Regulations

##### National regulations

29 CFR 1910.1200-HCS 2012, OSHA-PEL, ACGIH-TLV, NTP, IARC, SARA Title III, NFPA, TSCA, California - Prop. 65

##### - SARA, 302

This product is not classified as hazardous under SARA 302.

##### - SARA, 311

This product is classified as hazardous under SARA 311.

##### - SARA, 313

This product contain one ingredient regulated under this list(40 CFR part 372.65): Aluminum oxide (fume or dust) (CAS 1344-28-1).

This product contain one ingredient regulated under this list(40 CFR part 372.65): Cyclohexane (CAS 110-82-7)

##### - CA Proposition 65

No chemical substances in this material are named on the California P65 list.

##### - TSCA

Some chemical substances in this material are not included on or not exempted from listing on the TSCA Inventory.

##### - FDA

not determined

##### American Conference of Governmental Industrial Hygienists - ACGIH

Ingredients not listed as carcinogens.

##### International Agency for Research on Cancer IARC

Ingredients not listed as carcinogens.

##### National Toxicology Program - NTP

This product is named NTP - National Toxicology Program (contains glycerol).

This product is named NTP - National Toxicology Program (contains cyclohexane).

##### HAP-VOC

ca. 23%

##### Transport-regulations

DOT-Classification, ADR (2015); IMDG-Code (2015, 37. Amdt.); IATA-DGR (2015).

### SECTION 16: Other information

#### 16.1 Hazard statements (SECTION 3)

H227 Combustible Liquid.

H318 Causes serious eye damage.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

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## 16.2 Abbreviations and acronyms:

ACGIH = American Conference of Governmental Industrial Hygienists;  
ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route;  
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses;  
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure;  
CAS = Chemical Abstracts Service;  
CERCLA = Comprehensive Environmental Response, Compensation and Liability Act;  
CFR = Code of Federal Regulations;  
CPR = Controlled Products Regulations;  
DMEL = Derived Minimum Effect Level;  
DNEL = Derived No Effect Level;  
DOT = Department of Transportation;  
EC50 = Median effective concentration;  
EPA = Environmental Protection Agency;  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals;  
IATA = International Air Transport Association;  
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk;  
IC50 = Inhibition concentration, 50%;  
IMDG = International Maritime Code for Dangerous Goods;  
IARC = International Agency of Research on Cancer;  
IATA = International Air Transport Association;  
TSCA = Toxic Substance Control Act;  
HMIS = Hazardous Materials Identification System;  
NFPA = National Fire Protection Association;  
NIOSH = National Institute for Occupational Safety and Health;  
OSHA = Occupational Safety and Health Administration;  
LC50 = Lethal concentration, 50%;  
LD50 = Median lethal dose, 50%;  
MARPOL = International Convention for the Prevention of Marine Pollution from Ships;  
PBT = Persistent, Bioaccumulative and Toxic substance;  
PNEC = Predicted No-Effect Concentration;  
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals;  
SARA = Superfund Amendments and Reauthorization Act;  
TLV@/TWA = Threshold limit value – time-weighted average;  
TLV@STEL = Threshold limit value – short-time exposure limit;  
VOC = Volatile Organic Compounds;  
vPvB = very Persistent and very Bioaccumulative;

## 16.3 Ratings

### HMIS Ratings

|                     |   |   |
|---------------------|---|---|
| HEALTH              | 2 | 2 - Moderate Hazard   |
| FLAMMABILITY        | 2 | 2 - Moderate Hazard   |
| REACTIVITY          | 1 | 1 - Slight Hazard   |
| PERSONAL PROTECTION | X | X - Personal protection rating to be supplied by user depending on use conditions |

### NFPA Ratings

|     |
|-----|
| 2   |
| 2 1 |
| -   |

TOP, FLAMMABILITY: 2 - Moderate Hazard  
LEFT, HEALTH: 2 - Moderate Hazard RIGHT, REACTIVITY: 1 - Slight Hazard  
BOTTOM, SPECIAL NOTICE: -