

KWH Mirka Ltd

66850 Jeppo

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**SECTION 1: Identification of the substance / preparation and of the company**
**1.1 Product identifier**

**Polarshine F05**

**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**

None known.

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

|                |   |
|----------------|---|
| <b>Company</b> | KWH Mirka Ltd   |
|                | Pensalavägen 210  |
|                | 66850 Jeppo / FINLAND                                       |
|                | Phone +358 20 760 2111                                      |
|                | Fax +358 20 760 2290  |
|                | Homepage <a href="http://www.mirka.com">www.mirka.com</a>   |
|                | E-mail <a href="mailto:sales@mirka.com">sales@mirka.com</a> |

**Address enquiries to**

|                              |  |
|------------------------------|--|
| <b>Technical information</b> | <a href="mailto:sales@mirka.com">sales@mirka.com</a>       |
| <b>Safety Data Sheet</b>     | <a href="mailto:sdb@chemiebuero.de">sdb@chemiebuero.de</a> |

**1.4 Emergency phone**

|                |                                 |
|----------------|---------------------------------|
| <b>Company</b> | +358 20 760 2111 (8:00 - 16:00) |
|----------------|---------------------------------|

**SECTION 2: Hazards identification**
**2.1 Classification of the substance or mixture**
**2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]**
**Hazard pictograms**

not applicable

**2.1.2 Classification according to Regulation 67/548/EEC or 1999/45/EC**

|                       |      |
|-----------------------|------|
| <b>Hazard symbols</b> | none |
|-----------------------|------|

|                  |      |
|------------------|------|
| <b>R-phrases</b> | none |
|------------------|------|

The product does not require a hazard warning label in accordance with EC-directives.

**2.2 Label elements**
**Labelling according to Regulation 67/548/EEC or 1999/45/EC**

|                       |      |
|-----------------------|------|
| <b>Hazard symbols</b> | none |
|-----------------------|------|

|                  |      |
|------------------|------|
| <b>R-phrases</b> | none |
|------------------|------|

|                          |   |
|--------------------------|---|
| <b>Special labelling</b> | Safety data sheet available for professional user on request. |
|--------------------------|---|

**2.3 Other hazards**

|                             |  |
|-----------------------------|--|
| <b>Human health dangers</b> | Frequent persistent contact with the skin can cause skin irritation. |
|-----------------------------|--|

|                      |  |
|----------------------|--|
| <b>Other hazards</b> | Further hazards were not determined with the current level of knowledge. |
|----------------------|--|

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### SECTION 3: Composition / Information on ingredients

#### 3.1 Product-type:

The product is a mixture.

| Range [%] | Substance  |
|-----------|--|
| 10 - <20  | Distillates (petroleum), hydrotreated light paraffinic<br>CAS: 64742-55-8, EINECS/ELINCS: 265-158-7, EU-INDEX: 649-468-00-3<br>GHS/CLP: Asp. Tox 1 - H304  |
| 10 - <20  | Naphtha (petroleum), hydrotreated heavy<br>CAS: 64742-48-9, EINECS/ELINCS: 927-241-2, EU-INDEX: 649-327-00-6<br>GHS/CLP: Asp. Tox 1 - H304 - Aquatic Chronic 3 - H412 - - - EUH066<br>EEC: Xn, R 65-66-52/53 |
| 5 - <10   | Aluminium oxide<br>CAS: 1344-28-1, EINECS/ELINCS: 215-691-6<br>GHS/CLP:  |

#### 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 and R-phrases: see SECTION 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

##### General information

Change soaked clothing.

##### Inhalation

Ensure supply of fresh air.

##### Skin contact

When in contact with the skin, clean with soap and water.

Consult a doctor if skin irritation persists.

##### Eye contact

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

##### Ingestion

Supply with medical care.

Do not induce vomiting.

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.

### SECTION 5: Fire-fighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing media

foam, dry powder, water spray jet, carbon dioxide

##### Extinguishing media that must not be used

Full water jet

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

Not combusted hydrocarbons.

Unknown risk of formation of toxic pyrolysis products.

#### 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 with 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.

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**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.  
During mechanical processing vacuuming at processing machines is necessary.  
Keep away from all sources of ignition - Refrain from smoking.

**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.  
Do not store at temperatures below 0 °C.  
Recommended storage temperature: 15-25 °C.

**7.3 Specific end use(s)**

See product use, SECTION 1.2

**SECTION 8: Exposure controls / personal protection****8.1 Control parameters****Ingredients with occupational exposure limits to be monitored (GB)**

| Range [%] | Substance   |
|-----------|---|
| 5 -<10    | Aluminium oxide   |
|           | CAS: 1344-28-1, EINECS/ELINCS: 215-691-6  |
|           | Long-term exposure: 10 mg/m <sup>3</sup> , inhalable dust (respirable dust: 4 mg/m <sup>3</sup> ) |
| 10 - <20  | Naphtha (petroleum), hydrotreated heavy   |
|           | CAS: 64742-48-9, EINECS/ELINCS: 927-241-2, EU-INDEX: 649-327-00-6                                 |
|           | Long-term exposure: 184 ppm, 1200 mg/m <sup>3</sup> , ExxonMobil                                  |
| 10 - <20  | Distillates (petroleum), hydrotreated light paraffinic  |
|           | CAS: 64742-55-8, EINECS/ELINCS: 265-158-7, EU-INDEX: 649-468-00-3                                 |
|           | Long-term exposure: 1200 mg/m <sup>3</sup>  |

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**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>Butyl rubber, >480 min (EN 374).<br>In splash contact<br>Nitrile rubber, >480 min (EN 374).   |
| <b>Skin protection</b>   | light protective clothing   |
| <b>Other</b>   | 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 of the hazardous substances handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier.<br><br>Do not eat or drink when working.<br>Wash hands before breaks and after work.<br>Use barrier skin cream. |
| <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>   | not applicable  |
| <b>Delimitation and monitoring of the environmental exposition</b> | See SECTION 6+7.  |

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

|  |                     |
|--|---------------------|
| <b>Form</b>                                      | pasty               |
| <b>Color</b>                                     | white               |
| <b>Odor</b>                                      | characteristic      |
| <b>Odour threshold</b>                           | not determined      |
| <b>pH-value</b>                                  | 7-9                 |
| <b>pH-value [1%]</b>                             | not determined      |
| <b>Boiling point [°C]</b>                        | > 100/ > 212°F      |
| <b>Flash point [°C]</b>                          | > 65/ >149°F        |
| <b>Flammability [°C]</b>                         | not determined      |
| <b>Lower explosion limit</b>                     | not determined      |
| <b>Upper explosion limit</b>                     | not determined      |
| <b>Oxidizing properties</b>                      | no                  |
| <b>Vapour pressure/gas pressure [kPa]</b>        | not determined      |
| <b>Density [g/ml]</b>                            | ca. 1               |
| <b>Bulk density [kg/m³]</b>                      | not applicable      |
| <b>Solubility in water</b>                       | partially miscible  |
| <b>Partition coefficient [n-octanol/water]</b>   | not determined      |
| <b>Viscosity</b>                                 | > 20,5 mm²/s (40°C) |
| <b>Relative vapour density determined in air</b> | not determined      |
| <b>Evaporation speed</b>                         | not determined      |
| <b>Melting point [°C]</b>                        | not determined      |
| <b>Autoignition temperature [°C]</b>             | not determined      |
| <b>Decomposition temperature</b>                 | 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.

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## 10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

## 10.3 Possibility of hazardous reactions

Reactions with strong oxidizing agents.

## 10.4 Conditions to avoid

See SECTION 7

## 10.5 Incompatible materials

No information available.

## 10.6 Hazardous decomposition products

No hazardous decomposition products known.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

| Range [%] | Substance   |
|-----------|---|
| 10 - <20  | Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8 |
|           | LC50, inhalative, > 5 mg/l (Lit.).                                      |
|           | LD50, dermal, > 2000 mg/kg (Lit.).                                      |
|           | LD50, oral, > 5000 mg/kg (Lit.).  |
| 10 - <20  | Naphtha (petroleum), hydrotreated heavy, CAS: 64742-48-9                |
|           | LD50, oral, Rat: > 5000 mg/kg bw (OECD 401).                            |
|           | LC50, inhalative, Rat: > 4951 mg/m <sup>3</sup> (4 h) (OECD 403).       |
|           | LD50, dermal, Rabbit: > 5000 mg/kg bw (OECD 402).                       |

**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.

No classification on the basis of the calculation procedure of the preparation directive.

## SECTION 12: Ecological information

### 12.1 Toxicity

| Range [%] | Substance   |
|-----------|---|
| 10 - <20  | Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8 |
|           | LC50, (96h), fish: > 100 mg/l (Lit.).                                   |
|           | NOEL, Algae: > 100 mg/l (Lit.).   |
| 10 - <20  | Naphtha (petroleum), hydrotreated heavy, CAS: 64742-48-9                |
|           | EL0, (72h), Pseudokirchneriella subcapitata: 1000 mg/l (Lit.).          |
|           | LL0, (96h), Oncorhynchus mykiss: 1000 mg/l (Lit.).                      |
|           | EL0, (48h), Daphnia magna: 1000 mg/l (Lit.).                            |

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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 or into the drainage.  
No classification on the basis of the calculation procedure of the preparation directive.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

#### Product

Dispose of as hazardous waste.

Waste no. (recommended) 120121

#### Contaminated packaging

Uncontaminated packaging may be taken for recycling.  
Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended) 150110\*

## SECTION 14: Transport information

### 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

Inland navigation (ADN) NO DANGEROUS GOODS

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

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

### 14.3 Transport hazard class(es)

See SECTION 14.2 in accordance with UN shipping name

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**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 MARPOL73/78 and the IBC Code**

not applicable

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EEC-REGULATIONS**

1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC

**TRANSPORT-REGULATIONS**

DOT-Classification, ADR (2013); IMDG-Code (2013, 36. Amdt.); IATA-DGR (2013).

**NATIONAL REGULATIONS (GB):**EH40/2005 Workplace exposure limits (Second edition, published December 2011).  
CHIP 3/ CHIP 4**15.2 Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

**SECTION 16: Other informations****16.1 R-phrases (SECTION 3)**

R 65: Harmful - may cause lung damage if swallowed.

R 66: Repeated exposure may cause skin dryness or cracking.

R 52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**16.2 Hazard statements (SECTION 3)**

H304 May be fatal if swallowed and enters airways.

H412 Harmful to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

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**16.3 Abbreviations and acronyms:**

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  
 CLP = Classification, Labelling and Packaging  
 DMEL = Derived Minimum Effect Level  
 DNEL = Derived No Effect Level  
 EC50 = Median effective concentration  
 ECB = European Chemicals Bureau  
 EEC = European Economic Community  
 EINECS = European Inventory of Existing Commercial Chemical Substances  
 ELINCS = European List of Notified Chemical Substances  
 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  
 IUCLID = International Uniform Chemical Information Database  
 LC50 = Lethal concentration, 50%  
 LD50 = Median lethal dose  
 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  
 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

**16.4 Other informations**

|   |  |
|---|--|
| <b>Observe employment restrictions for people</b> | no   |
| <b>VOC (1999/13/CE)</b>                           | ca. 13%  |
| <b>Customs Tariff</b>                             | not determined   |
| <b>Modified position</b>                          | SECTION 11 been added: Toxicological data of complete product are not available.<br>SECTION 2 been added: Frequent persistent contact with the skin can cause skin irritation.<br>SECTION 11 been added: Frequent persistent contact with the skin can cause skin irritation.<br>SECTION 15 been added: -<br>SECTION 12 been added: Ecological data of complete product are not available. |

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