

KWH Mirka Ltd
66850 Jeppo

Date printed 03.06.2015, Revision 02.06.2015

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 8 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
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Homepage www.mirka.com
E-mail sales@mirka.com

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Technical information sales@mirka.com
Safety Data Sheet sdb@chemiebuero.de

1.4 Emergency telephone number

Company +358 20 760 2111 (8:00 - 16:00)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Eye Irrit. 2: H319 Causes serious eye irritation.

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.

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.

Special labelling

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3 Other hazards

Physico-chemical hazards

Combustible.

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 |
|-----------|--------------------------------------------------------------------------|
| 20 - <25 | Hydrocarbons, C11- C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics |
| | EINECS/ELINCS: 926-141-6, Reg-No.: 01-2119456620-43-0000 |
| | GHS/CLP: Asp. Tox. 1: H304 |
| 10 - < 20 | Aluminium oxide |
| | CAS: 1344-28-1, EINECS/ELINCS: 215-691-6 |
| 5- < 10 | White mineral oil (petroleum) |
| | CAS: 8042-47-5, EINECS/ELINCS: 232-455-8, Reg-No.: 01-2119487078-27-XXXX |
| | GHS/CLP: Asp. Tox. 1: H304 |
| 1 - < 5 | Glycerol |
| | CAS: 56-81-5, EINECS/ELINCS: 200-289-5 |
| 1 - < 3 | Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-,branched / |
| | Reg-No.: 02-2119552461-55-0000 |
| | 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 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

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

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.
Forward this sheet to the doctor.

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.
Risk of formation of toxic pyrolysis products.

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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.
Take off contaminated clothing and wash before reuse.

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 (GB)

| Range [%] | Substance |
|-----------|---------------------------------------------------------------------------------------------------|
| 20 - <25 | Hydrocarbons, C11- C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics |
| | EINECS/ELINCS: 926-141-6, Reg-No.: 01-2119456620-43-0000 |
| | Long-term exposure: 1200 mg/m ³ |
| 10 - < 20 | Aluminium oxide |
| | CAS: 1344-28-1, EINECS/ELINCS: 215-691-6 |
| | Long-term exposure: 10 mg/m ³ , inhalable dust (respirable dust: 4 mg/m ³) |
| 1 - <5 | Glycerol |
| | CAS: 56-81-5, EINECS/ELINCS: 200-289-5 |
| | Long-term exposure: 10 mg/m ³ , (mist) |

DNEL

| Range [%] | Substance |
|-----------|--------------------------------------------------------------------------------------|
| 5- < 10 | White mineral oil (petroleum), CAS: 8042-47-5 |
| | Industrial, inhalative, Long-term - systemic effects: 160 mg/m ³ . |
| | 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 ³ . |

8.2 Exposure controls

| | |
|--------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Additional advice on system design | Ensure adequate ventilation on workstation. |
| Eye protection | Safety glasses. |
| Hand protection | The details concerned are recommendations. Please contact the glove supplier for further information. In full contact: > 0,4 mm: Butyl rubber, >480 min (EN 374). In splash contact > 0,4 mm: Nitrile rubber, >480 min (EN 374). |
| Skin protection | Protective clothing. |
| Other | 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. Do not inhale gases/vapours/aerosols. Avoid contact with eyes and skin. |
| Respiratory protection | Breathing apparatus in the event of high concentrations. Short term: filter apparatus, combination filter A-P1. |
| Thermal hazards | No information available. |
| Delimitation and monitoring of the environmental exposition | 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 (solid, gas) [°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 ³] | not applicable |
| Solubility in water | miscible |
| Partition coefficient [n-octanol/water] | not determined |
| Viscosity | > 20,5 mm ² /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

| Range [%] | Substance |
|-----------|-----------------------------------------------------------------------------------------|
| 1 - < 5 | Glycerol, CAS: 56-81-5 |
| | LD50, dermal, Rat: > 21 900 mg/kg. |
| | LD50, oral, Rat: 12 600 mg/kg. |
| 10 - < 20 | Aluminium oxide, CAS: 1344-28-1 |
| | LD50, oral, Rat: >5000 mg/kg bw (IUCLID). |
| 5- < 10 | White mineral oil (petroleum), CAS: 8042-47-5 |
| | LD50, oral, Rat: > 5000 mg/kg. |
| | LD50, dermal, Rabbit: > 2000 mg/kg. |
| 1 - < 3 | Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched / |
| | LD50, oral, Rat: 500-2000 mg/kg (OECD 423). |
| 20 - <25 | Hydrocarbons, C11- C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics, CAS: 64742-47-8 |
| | LD50, dermal, Rat: >5000 mg/kg (OECD 402). |
| | LD50, oral, Rat: >5000 mg/kg (OECD 401). |
| | LC50, inhalative, Rat: >5000 mg/m ³ /8h (OECD 403). |

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.

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SECTION 12: Ecological information

12.1 Toxicity

| Range [%] | Substance |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 - < 5 | Glycerol, CAS: 56-81-5 LC50, (24h), fish: > 5000 mg/l. |
| 10 - < 20 | Aluminium oxide, CAS: 1344-28-1 NOEC, (48h), Daphnia magna: >100 mg/L (IUCLID). NOEC, (72h), Selenastrum capricornutum: >100 mg/L (IUCLID). |
| 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). |
| 20 - <25 | Hydrocarbons, C11- C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics, CAS: 64742-47-8 EL0, (72h), Pseudokirchneriella subcapitata: 1000 mg/l. EL0, (48h), Daphnia magna: 1000 mg/l. LL0, (96h), Oncorhynchus mykiss: 1000 mg/l. |

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.

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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.
Coordinate disposal with the authorities if necessary.

Waste no. (recommended) 120120*

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

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 73/78 and the IBC Code

not applicable

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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 (2015); IMDG-Code (2015, 37. Amdt.); IATA-DGR (2015). |
| NATIONAL REGULATIONS (GB): | EH40/2005 Workplace exposure limits (Second edition, published December 2011). CHIP 3/ CHIP 4 |
| - Observe employment restrictions for people | not applicable |
| - VOC (1999/13/CE) | ca. 23 % |

15.2 Chemical safety assessment

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

SECTION 16: Other information

16.1 Hazard statements (SECTION 3)

H318 Causes serious eye damage.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.

16.2 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

16.3 Other information

Classification procedure

Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)

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Modified position

SECTION 3 been added: White mineral oil (petroleum)

SECTION 2 been added: H319 Causes serious eye irritation.

SECTION 2 been added: Eye Irrit. 2

SECTION 2 been added: The product is required to be labelled in accordance with GHS/CLP-Directives.

SECTION 4 been added: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

SECTION 7 been added: Take off contaminated clothing and wash before reuse.

SECTION 7 been added: Contaminated work clothing should not be allowed out of the workplace.

SECTION 7 been added: Do not eat, drink or smoke when using this product.

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