

KWH Mirka Ltd

66850 Jeppo

Date printed 06.07.2016, Revision 06.07.2016

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 12

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

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
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Address enquiries to

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)
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SECTION 2: Hazards identification
2.1 Classification of the substance or mixture

Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

Hazard pictograms	none
Signal word	none
Hazard statements	H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	P273 Avoid release to the environment. P501 Dispose of contents/container to in accordance with local/regional/national/international regulation.
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
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
5 - < 10	Hydrocarbons, C11-C13, isoalkanes, <2% aromatics
	EINECS/ELINCS: 920-901-0, Reg-No.: 01-2119456810-40-XXXX
	GHS/CLP: Asp. Tox. 1: H304
5 - < 10	Aluminium oxide
	CAS: 1344-28-1, EINECS/ELINCS: 215-691-6
	GHS/CLP: STOT SE 3: H335
0,25 - < 1	Oleylamine ethoxylated
	CAS: 26635-93-8, EINECS/ELINCS: 500-048-7
	GHS/CLP: Acute Tox. 4: H302 - Skin Irrit. 2: H315 - Eye Dam. 1: H318 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410

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

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

Get medical advice.
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.

Use personal protective equipment.

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.

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.

Prevent drying-out.

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)

Substance
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics
EINECS/ELINCS: 920-901-0, Reg-No.: 01-2119456810-40-XXXX
Long-term exposure: 1200 mg/m ³
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)

DNEL

Substance
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics
There are no DNEL values established for the substance.:
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 .

PNEC

Substance
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics
There are no PNEC values established for the substance.,

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	Safety glasses. (EN 166:2001)
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 374-1/-2/-3). In splash contact: > 0,4 mm: Nitrile rubber, >480 min (EN 374-1/-2/-3).
Skin protection	Protective clothing.
Other	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. Do not inhale dust. Do not inhale vapours. Avoid contact with eyes and skin.
Respiratory protection	Breathing apparatus in the event of high concentrations. Short term: filter apparatus, combination filter A-P1. (DIN EN 14387)
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	No information available.
pH-value	7,5 - 8,5
pH-value [1%]	No information available.
Boiling point [°C]	No information available.
Flash point [°C]	> 65 °C / >149 °F
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	No information available.
Density [g/ml]	~1,05
Bulk density [kg/m ³]	not applicable
Solubility in water	miscible
Partition coefficient [n-octanol/water]	No information available.
Viscosity	>20,5 mm ² /s (40°C/ 104°F)
Relative vapour density determined in air	No information available.
Evaporation speed	No information available.
Melting point [°C]	No information available.
Autoignition temperature [°C]	No information available.
Decomposition temperature [°C]	No information available.

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.
Prevent drying-out.

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

Substance
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics
LD50, dermal, Rabbit: > 3160 mg/kg (IUCLID).
LD50, oral, Rat: > 5000 mg/kg (IUCLID).
LC50, inhalative, Human: 5000 mg/m ³ /8h (OECD 403).
LC50, inhalative, Rat: > 290 ppm 4h (IUCLID).
White mineral oil (petroleum), CAS: 8042-47-5
LD50, oral, Rat: > 5000 mg/kg.
LD50, dermal, Rabbit: > 2000 mg/kg.
Oleylamine ethoxylated, CAS: 26635-93-8
LD50, oral, Rat: > 300 - 2000 mg/kg bw.

Serious eye damage/irritation	Based on the available information, the classification criteria are not fulfilled.
Skin corrosion/irritation	Based on the available information, the classification criteria are not fulfilled.
Respiratory or skin sensitisation	Based on the available information, the classification criteria are not fulfilled.
Specific target organ toxicity — single exposure	Based on the available information, the classification criteria are not fulfilled.
Specific target organ toxicity — repeated exposure	Based on the available information, the classification criteria are not fulfilled.
Mutagenicity	Based on the available information, the classification criteria are not fulfilled.
Reproduction toxicity	Based on the available information, the classification criteria are not fulfilled.
Carcinogenicity	Based on the available information, the classification criteria are not fulfilled.
Aspiration hazard	Based on the available information, the classification criteria are not fulfilled.
General remarks	Frequent persistent contact with the skin can cause skin irritation. Toxicological data of complete product are not available.

SECTION 12: Ecological information

12.1 Toxicity

Substance
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics
LC50, (96h), fish: 2890 mg/l (IUCLID).
EC50, (48h), Daphnia magna: < 100 mg/l (IUCLID).
EL0, (72h), Pseudokirchneriella subcapitata: 1000 mg/l.
EL0, (48h), Daphnia magna: 1000 mg/l.
NOELR, (21d), Daphnia magna: 1 mg/l.
NOELR, (72h), Pseudokirchneriella subcapitata: 1000 mg/l.
LL0, (96h), Oncorhynchus mykiss: 1000 mg/l.
Oleylamine ethoxylated, CAS: 26635-93-8
LC50, (96h), Oncorhynchus mykiss: > 0,1 - 1 mg/l.
EC50, (48h), Daphnia magna: > 0,1 - 1 mg/l.
EC10, (21d), Daphnia magna: > 0,001 - 0,01 mg/l.

12.2 Persistence and degradability

Behaviour in environment compartments	No information available.
Behaviour in sewage plant	No information available.
Biological degradability	No information available.

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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.

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**

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

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"

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14.3 Transport hazard class(es)

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.4 Packing group

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

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

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

EEC-REGULATIONS 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC; (EU) 2015/830

TRANSPORT-REGULATIONS DOT-Classification, ADR (2015); IMDG-Code (2015, 37. Amdt.); IATA-DGR (2016).

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.

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SECTION 16: Other information

16.1 Hazard statements (SECTION 03)

H335 May cause respiratory irritation.
 H410 Very toxic to aquatic life with long lasting effects.
 H400 Very toxic to aquatic life.
 H318 Causes serious eye damage.
 H315 Causes skin irritation.
 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

Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects. (Calculation method)

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Modified position

SECTION 3 been added: Aluminium oxide

SECTION 3 been added: Oleylamine ethoxylated

SECTION 15 deleted: EUH210 Safety data sheet available on request.

SECTION 2 deleted: The product is classified and required to be labelled in accordance with EC-Directives

SECTION 2 been added: The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP).

SECTION 2 been added: Aquatic Chronic 3

SECTION 2 been added: H412 Harmful to aquatic life with long lasting effects.

SECTION 2 deleted: none

SECTION 2 been added: P273 Avoid release to the environment.

SECTION 2 been added: P501 Dispose of contents/container to in accordance with local/regional/national/international regulation.

SECTION 6 been added: Use personal protective equipment.

SECTION 9 deleted: not determined

SECTION 9 been added: No information available.

SECTION 11 deleted: not determined

SECTION 11 been added: Based on the available information, the classification criteria are not fulfilled.

SECTION 11 deleted: The product was classified on the basis of the calculation procedure of the preparation directive.

SECTION 12 deleted: not determined

SECTION 12 been added: No information available.

SECTION 15 been added: Storage class 10 - 13 (VCI)

SECTION 15 deleted: not determined

SECTION 16 been added: Calculation method

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