

Mirka Ltd
66850 Jeppo

Date printed 12.02.2019, Revision 12.02.2019

Version 02. Supersedes version: 01

Page 1 / 11

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

1.1 Product identifier

Polarshine 45

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 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

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]

No classification.

2.2 Label elements

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

Hazard pictograms none
Signal word none
Hazard statements none
Precautionary statements none
Special labelling EUH066 Repeated exposure may cause skin dryness or cracking.
EUH210 Safety data sheet available on request.

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.

Mirka Ltd
66850 Jeppo

Date printed 12.02.2019, Revision 12.02.2019

Version 02. Supersedes version: 01

Page 2 / 11

SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

Range [%]	Substance
15 - < 20	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics EINECS/ELINCS: 918-481-9, Reg-No.: 01-2119457273-39-XXXX GHS/CLP: Asp. Tox. 1: H304
10 - < 15	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 - < 3	Terpineol CAS: 8000-41-7, EINECS/ELINCS: 232-268-1, Reg-No.: 01-2119553062-49-XXXX GHS/CLP: Skin Irrit. 2: H315 - Eye Irrit. 2: H319

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

Take off contaminated clothing and wash before reuse.

Inhalation

Ensure supply of fresh air.
In the event of symptoms seek medical treatment.

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.

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.

Mirka Ltd
66850 Jeppo

Date printed 12.02.2019, Revision 12.02.2019

Version 02. Supersedes version: 01

Page 3 / 11

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.
Wear suitable protective equipment. For personal protection see SECTION 8.

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.
Avoid contact with eyes and skin. Use personal protective equipment.
Keep away from open flames, hot surfaces and sources of ignition.
Do not eat, drink or smoke when using this product.
Wash hands before breaks and after work.
Use barrier skin cream.
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

Mirka Ltd
66850 Jeppo

Date printed 12.02.2019, Revision 12.02.2019

Version 02. Supersedes version: 01

Page 4 / 11

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

Substance
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics
EINECS/ELINCS: 918-481-9, Reg-No.: 01-2119457273-39-XXXX
Long-term exposure: 184 ppm, 1200 mg/m ³ , ExxonMobil
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 ³ , oil mist TWA, ACGIH

DNEL

Substance
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 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: 93 mg/kg bw/day.
general population, inhalative, Long-term - systemic effects: 35 mg/m ³ .
Terpineol, CAS: 8000-41-7
Industrial, dermal, Long-term - systemic effects: 6,36 mg/kg bw/day.
Industrial, inhalative, Long-term - systemic effects: 44,8 mg/m ³ .
general population, oral, Long-term - systemic effects: 2,69 mg/kg bw/day.
general population, dermal, Long-term - systemic effects: 2,69 mg/kg bw/day.
general population, inhalative, Long-term - systemic effects: 7,96 mg/m ³ .

PNEC

Substance
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics
There are no PNEC values established for the substance.,
Terpineol, CAS: 8000-41-7
oral (food), 16,6 mg/kg food.
soil, 0,045 mg/kg soil dw.
sediment (seaater), 0,026 mg/kg sediment dw.
sediment (freshwater), 0,263 mg/kg sediment dw.
sewage treatment plants (STP), 2,57 mg/L.
freshwater, 12 µg/L.
seawater, 1,2 µg/L.

Mirka Ltd
66850 Jeppo

Date printed 12.02.2019, Revision 12.02.2019

Version 02. Supersedes version: 01

Page 5 / 11

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
Eye protection	Safety glasses. (EN 166:2001)
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. > 0,11 mm, Butyl rubber, >480 min (EN 374-1/-2/-3).
Skin protection	Protective clothing (EN 340)
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	Respiratory protection mask 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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	liquid
Color	white
Odor	mild
Odour threshold	No information available.
pH-value	2,5 - 4,5
pH-value [1%]	No information available.
Boiling point [°C]	No information available.
Flash point [°C]	> 65 °C / >149 °F
Flammability (solid, gas) [°C]	No information available.
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]	ca. 1,23
Bulk density [kg/m³]	not applicable
Solubility in water	miscible
Partition coefficient [n-octanol/water]	No information available.
Viscosity	>20,5 mm²/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

none

Mirka Ltd
66850 Jeppo

Date printed 12.02.2019, Revision 12.02.2019

Version 02. Supersedes version: 01

Page 6 / 11

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 dangerous reactions known if used as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Substance
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics
LD50, dermal, Rabbit: > 5000 mg/kg bw (OECD 402).
LD50, oral, Rat: > 5000 mg/kg bw (OECD 401).
LC50, inhalative, Rat: > 4951 mg/m ³ (4 h) (OECD 403).
White mineral oil (petroleum), CAS: 8042-47-5
LD50, oral, Rat: > 5000 mg/kg.
LD50, dermal, Rabbit: > 2000 mg/kg.
Terpineol, CAS: 8000-41-7
LD50, dermal, Rat: > 5000 mg/kg.
LD50, oral, Rat: > 5000 mg/kg.

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.

Mirka Ltd
66850 Jeppo

Date printed 12.02.2019, Revision 12.02.2019

Version 02. Supersedes version: 01

Page 7 / 11

SECTION 12: Ecological information

12.1 Toxicity

Substance
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics
EL0, (72h), Pseudokirchneriella subcapitata: 1000 mg/l (Lit.).
EL0, (48h), Daphnia magna: 1000 mg/l (Lit.).
LL0, (96h), Oncorhynchus mykiss: 1000 mg/l (Lit.).

12.2 Persistence and degradability

Behaviour in environment compartments	No information available.
Behaviour in sewage plant	No information available.
Biological degradability	EG 918-481-9: 80%, 28d CAS 8042-47-5: Biodegradable. CAS 8000-41-7: 80%, 28d (OECD 310)

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

not applicable

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.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material c 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*

Mirka Ltd
66850 Jeppo

Date printed 12.02.2019, Revision 12.02.2019

Version 02. Supersedes version: 01

Page 8 / 11

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"

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

Mirka Ltd
66850 Jeppo

Date printed 12.02.2019, Revision 12.02.2019

Version 02. Supersedes version: 01

Page 9 / 11

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

No information available.

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

EEC-REGULATIONS 1991/689 (2001/118); 2010/75; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2016/2037/EC); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014

TRANSPORT-REGULATIONS ADR (2019); IMDG-Code (2019, 39. Amdt.); IATA-DGR (2019)

NATIONAL REGULATIONS (GB): EH40/2005 Workplace exposure limits (Second edition, published December 2011).

- Observe employment restrictions for people Observe employment restrictions for young people.

- VOC (2010/75/CE) ca.16,8 %

15.2 Chemical safety assessment

For the following substances of this preparation a chemical safety assessment has been carried out:
EG 918-481-9
CAS 8000-41-7

SECTION 16: Other information**16.1 Hazard statements (SECTION 03)**

H319 Causes serious eye irritation.
H315 Causes skin irritation.
H304 May be fatal if swallowed and enters airways.

Mirka Ltd
66850 Jeppo

Date printed 12.02.2019, Revision 12.02.2019

Version 02. Supersedes version: 01

Page 10 / 11

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
 ATE = acute toxicity estimate
 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
 LC0 = lethal concentration, 0%
 LOAEL = lowest-observed-adverse-effect level
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships
 NOAEL = No Observed Adverse Effect Level
 NOEC = No Observed Effect Concentration
 PBT = Persistent, Bioaccumulative and Toxic substance
 PNEC = Predicted No-Effect Concentration
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
 STP = Sewage Treatment Plant
 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

Mirka Ltd
66850 Jeppo

Date printed 12.02.2019, Revision 12.02.2019

Version 02. Supersedes version: 01

Page 11 / 11

Modified position

SECTION 2 deleted: 2-Methyl-2H-isothiazolin-3-one

SECTION 3 deleted: 2-Methyl-2H-isothiazolin-3-one

SECTION 15 been added: EUH210 Safety data sheet available on request.

SECTION 2 deleted: P261 Avoid breathing vapours.

SECTION 2 deleted: exclamation mark

SECTION 2 deleted: WARNING

SECTION 2 deleted: H317 May cause an allergic skin reaction.

SECTION 2 deleted: Skin Sens. 1

SECTION 2 been added: none

SECTION 2 been added: none

SECTION 2 deleted: P280 Wear protective gloves.

SECTION 2 deleted: P302+P352 IF ON SKIN: Wash with plenty of water / soap.

SECTION 2 deleted: P333+P313 If skin irritation or rash occurs: Get medical advice / attention.

SECTION 2 deleted: P362+P364 Take off contaminated clothing and wash it before reuse.

SECTION 2 deleted: P501 Dispose of contents/container in accordance with local/national regulation.

SECTION 2 been added: none

SECTION 2 been added: none

SECTION 11 deleted: May cause an allergic skin reaction.

SECTION 11 deleted: Calculation method

SECTION 16 deleted: Calculation method

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