

Mirka Ltd  
66850 Jeppo

Date printed 09.12.2022, Revision 09.12.2022

Version 04. Supersedes version: 03

Page 1 / 14

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

### 1.1 Product identifier

**Polarshine 12 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

None known.

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

#### Company

Best Abrasives  
Address: 29 Production Avenue, Kogarah NSW, Kogarah NSW 2217, Australia  
Phone: + 61 2 8036 8478

#### Address enquiries to

#### Technical information

Best Abrasives

#### Safety Data Sheet

Safety data sheets are available from the supplier.

### 1.4 Emergency telephone number

#### Advisory body

For Chemical Emergency: spill, leak, fire, exposure or accident call CHEMTREC day or night: Within USA and Canada: +1 800 424 9300; Outside USA and Canada: +1 703 527 3887 (collect calls accepted)  
CHEMTREC Australia (Sydney): +(61)-290372994 (English)  
Multilingual response for emergency calls only.  
Non-emergency calls cannot be serviced at these numbers.

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Flam. Liq. 4: H227 Combustible Liquid.

### 2.2 Label elements

The product is required to be labelled in accordance with Model Work Health and Safety Regulations (WHS - GHS 7) Australia.

#### Hazard pictograms

#### Signal word

WARNING

#### Hazard statements

H227 Combustible Liquid.

#### Precautionary statements

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P264 Wash hands thoroughly after handling.  
P280 Wear protective gloves / eye protection.  
P370+P378 In case of fire: Use Water spray, Carbon dioxide, Foam, Dry chemical for extinction.  
P403+P235 Store in a well-ventilated place. Keep cool.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulation.

#### Special labelling

AUH066 Repeated exposure may cause skin dryness or cracking.

Mirka Ltd  
66850 Jeppo

Date printed 09.12.2022, Revision 09.12.2022

Version 04. Supersedes version: 03

Page 2 / 14

### 2.3 Other hazards

<b>Physico-chemical hazards</b>	Combustible.
<b>Human health dangers</b>	Has a degreasing effect on the skin. Contains no ingredients with endocrine-disrupting properties ( $\geq 0,1\%$ ).
<b>Environmental hazards</b>	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. Contains no ingredients with endocrine-disrupting properties ( $\geq 0,1\%$ ).
<b>Other hazards</b>	Further hazards were not determined with the current level of knowledge.

## SECTION 3: Composition / Information on ingredients

### 3.1 Substances

not applicable

### 3.2 Mixtures

The product is a mixture.

Range [%]	Substance
5 - < 15	White mineral oil (petroleum)
	CAS: 8042-47-5
5 - < 10	Naphtha (petroleum), hydrotreated heavy
	CAS: 64742-48-9
10 - < 15	Aluminium oxide
	CAS: 1344-28-1

**Comment on component parts** Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

<b>General information</b>	Take off contaminated clothing and wash before reuse.
<b>Inhalation</b>	Ensure supply of fresh air. In the event of symptoms seek medical treatment.
<b>Skin contact</b>	When in contact with the skin, clean with soap and water. 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. If eye irritation persists: Get medical advice/attention.
<b>Ingestion</b>	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.

Mirka Ltd  
66850 Jeppo

Date printed 09.12.2022, Revision 09.12.2022

Version 04. Supersedes version: 03

Page 3 / 14

## 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

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

### 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.

Hazchem Code not applicable

## 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 with 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.  
Provide suitable vacuuming at the processing machines and in the processing area.  
Avoid spilling in enclosed areas.  
Use solvent-resistant equipment.  
Avoid contact with eyes and skin. Use personal protective equipment.  
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.

Mirka Ltd  
66850 Jeppo

Date printed 09.12.2022, Revision 09.12.2022

Version 04. Supersedes version: 03

Page 4 / 14

## 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

## SECTION 8: Exposure controls / personal protection

### 8.1 Control parameters

Ingredients with occupational  
exposure limits to be monitored (AU)

Substance
Naphtha (petroleum), hydrotreated heavy
CAS: 64742-48-9
Time Weighted Average (TWA): 100 ppm, 525 mg/m <sup>3</sup> , OSHA
White mineral oil (petroleum)
CAS: 8042-47-5
Time Weighted Average (TWA): 5 mg/m <sup>3</sup> , A, Oil mist, refined mineral
Aluminium oxide
CAS: 1344-28-1
Time Weighted Average (TWA): 10 mg/m <sup>3</sup> , (a)

### DNEL

Substance
White mineral oil (petroleum), CAS: 8042-47-5
Industrial, inhalative, Long-term - systemic effects, 164.56 mg/m <sup>3</sup>
Industrial, dermal, Long-term - systemic effects, 217.05 mg/kg bw/day
general population, oral, Long-term - systemic effects, 25 mg/kg bw/day
general population, dermal, Long-term - systemic effects, 93.02 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 34.78 mg/m <sup>3</sup>

Mirka Ltd  
66850 Jeppo

Date printed 09.12.2022, Revision 09.12.2022

Version 04. Supersedes version: 03

Page 5 / 14

## 8.2 Exposure controls

<b>Additional advice on system design</b>	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.
<b>Eye protection</b>	If there is a risk of splashing: Tightly fitting goggles (EN 166:2001).
<b>Hand protection</b>	The details concerned are recommendations. Please contact the glove supplier for further information. > 0.4 mm: Nitrile rubber, >480 min (EN 374-1/-2/-3).
<b>Skin protection</b>	Protective clothing (EN 340)
<b>Other</b>	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.
<b>Respiratory protection</b>	In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection. Short term: filter apparatus, combination filter A-P1. (DIN EN 14387)
<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.

Mirka Ltd  
66850 Jeppo

Date printed 09.12.2022, Revision 09.12.2022

Version 04. Supersedes version: 03

Page 6 / 14

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	Liquid
Form	pasty
Color	white
Odor	mild
Odour threshold	No information available.
pH-value	7 - 9
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/cm <sup>3</sup> ]	ca. 1.02
Relative density	No information available.
Bulk density [kg/m <sup>3</sup> ]	not applicable
Solubility in water	miscible
Solubility other solvents	No information available.
Partition coefficient [n-octanol/water]	not applicable
Kinematic viscosity	>20.5 mm <sup>2</sup> /s (40°C/ 104°F)
Relative vapour density	No information available.
Evaporation speed	No information available.
Melting point [°C]	No information available.
Auto-ignition temperature	No information available.
Decomposition temperature [°C]	No information available.
Particle characteristics	No information available.

### 9.2 Other information

none

## 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.

Mirka Ltd  
66850 Jeppo

Date printed 09.12.2022, Revision 09.12.2022

Version 04. Supersedes version: 03

Page 7 / 14

#### 10.6 Hazardous decomposition products

No decomposition if used and stored according to specifications.



Mirka Ltd  
66850 Jeppo

Date printed 09.12.2022, Revision 09.12.2022

Version 04. Supersedes version: 03

Page 8 / 14

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute oral toxicity

Product
ATE-mix, oral, > 5000 mg/kg
Substance
Aluminium oxide, CAS: 1344-28-1
LD50, oral, Rat, >5000 mg/kg bw (IUCLID)
White mineral oil (petroleum), CAS: 8042-47-5
LD50, oral, Rat, > 5000 mg/kg
Naphtha (petroleum), hydrotreated heavy, CAS: 64742-48-9
LD50, oral, Rat, > 5000 mg/kg bw

#### Acute dermal toxicity

Product
ATE-mix, dermal, > 5000 mg/kg
Substance
White mineral oil (petroleum), CAS: 8042-47-5
LD50, dermal, Rabbit, > 2000 mg/kg
Naphtha (petroleum), hydrotreated heavy, CAS: 64742-48-9
LD50, dermal, Rabbit, > 5000 mg/kg bw

#### Acute inhalational toxicity

Product
Based on the available information, the classification criteria are not fulfilled.
Substance
Aluminium oxide, CAS: 1344-28-1
LC100, inhalative, Rat, 888 mg/m <sup>3</sup> /4h
White mineral oil (petroleum), CAS: 8042-47-5
LC50, inhalative, Rat, 5 mg/L/4h
Naphtha (petroleum), hydrotreated heavy, CAS: 64742-48-9
LD50, inhalativ (vapour ), Rat, > 5000 mg/m <sup>3</sup>

#### Skin corrosion/irritation

Based on the available information, the classification criteria are not fulfilled.

Substance
Aluminium oxide, CAS: 1344-28-1
no adverse effect observed
White mineral oil (petroleum), CAS: 8042-47-5
no adverse effect observed

#### Serious eye damage/irritation

Based on the available information, the classification criteria are not fulfilled.

Substance
Aluminium oxide, CAS: 1344-28-1
no adverse effect observed



Mirka Ltd  
66850 Jeppo

Date printed 09.12.2022, Revision 09.12.2022

Version 04. Supersedes version: 03

Page 9 / 14

White mineral oil (petroleum), CAS: 8042-47-5

no adverse effect observed

**Respiratory or skin sensitisation** Based on the available information, the classification criteria are not fulfilled.

Substance

Aluminium oxide, CAS: 1344-28-1

dermal, non-sensitizing

inhalative, non-sensitizing

White mineral oil (petroleum), CAS: 8042-47-5

no adverse effect observed

**Mutagenicity** Based on the available information, the classification criteria are not fulfilled.

Substance

Aluminium oxide, CAS: 1344-28-1

in vivo, negativ

in vitro, negativ

**Carcinogenicity** Based on the available information, the classification criteria are not fulfilled.

Substance

Aluminium oxide, CAS: 1344-28-1

NOAEC, inhalative, Rat, 75 mg/m<sup>3</sup>, no adverse effect observed

White mineral oil (petroleum), CAS: 8042-47-5

NOAEL, oral, Rat, 1200 mg/kg bw/day, no adverse effect observed

**Reproduction toxicity** Based on the available information, the classification criteria are not fulfilled.

Substance

Aluminium oxide, CAS: 1344-28-1

NOAEL, oral, Rat, 1004 mg/kg bw/d (Effect on developmental toxicity), no adverse effect observed

NOAEL, oral, Rat, 567 mg/kg bw/d (Effect on fertility), no adverse effect observed

White mineral oil (petroleum), CAS: 8042-47-5

NOAEL, oral, Rat, 1000 mg/kg bw/d (Effect on fertility), no adverse effect observed

**Specific target organ toxicity — single exposure** Based on the available information, the classification criteria are not fulfilled.

Substance

Aluminium oxide, CAS: 1344-28-1

inhalative, no adverse effect observed

**Specific target organ toxicity — repeated exposure** 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 09.12.2022, Revision 09.12.2022

Version 04. Supersedes version: 03

Page 10 / 14

## SECTION 12: Ecological information

### 12.1 Toxicity

Substance
Aluminium oxide, CAS: 1344-28-1
NOEC, (48h), Daphnia magna, >100 mg/L (IUCLID)
NOEC, (72h), Selenastrum capricornutum, >100 mg/L (IUCLID)
White mineral oil (petroleum), CAS: 8042-47-5
LL50, (48h), Daphnia magna, 100 mg/L
LL50, (96h), fish, 100 - 10000 mg/L
Naphtha (petroleum), hydrotreated heavy, CAS: 64742-48-9
EL0, (72h), Pseudokirchneriella subcapitata, 1000 mg/l
EL0, (48h), Daphnia magna, 1000 mg/l
NOELR, (21d), Daphnia magna, 1 mg/l
LL0, (96h), Oncorhynchus mykiss, 1000 mg/l

### 12.2 Persistence and degradability

<b>Behaviour in environment compartments</b>	No information available.
<b>Behaviour in sewage plant</b>	No information available.
<b>Biological degradability</b>	CAS 64742-48-9 - The product is inherently biologically degradable CAS 8042-47-5 - The product is readily biodegradable.

### 12.3 Bioaccumulative potential

No information available.

### 12.4 Mobility in soil

Spillages may penetrate the soil causing ground water contamination.

### 12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

### 12.6 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

### 12.7 Other adverse effects

Ecological data of complete product are not available.  
Do not discharge product unmonitored into the environment.

## SECTION 13: Disposal considerations

<b>Restrictions</b>	There are no product-specific restrictions. However, state and local disposal regulations may apply.
<b>Disposal method</b>	Disposal of this product must comply with the requirements of state and local disposal regulations.
<b>Contaminated packaging</b>	Rinse containers with water before disposal. Preferably re-cycle container, otherwise send to landfill or similar.

Mirka Ltd  
66850 Jeppo

Date printed 09.12.2022, Revision 09.12.2022

Version 04. Supersedes version: 03

Page 11 / 14

#### 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

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG) 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"

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG) 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

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG) not applicable

Mirka Ltd  
66850 Jeppo

Date printed 09.12.2022, Revision 09.12.2022

Version 04. Supersedes version: 03

Page 12 / 14

#### 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

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG) 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

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG) 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

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) not applicable

Applicable prohibitions and notifications/licensing requirements not applicable

Agricultural and Veterinary Chemicals Act not applicable

Listing in the Australian Inventory of Chemical Substances (AICS) All chemical substances in this product are included on Australian Inventory of Industrial Chemicals (Inventory).

Additional information not applicable

Mirka Ltd  
66850 Jeppo

Date printed 09.12.2022, Revision 09.12.2022

Version 04. Supersedes version: 03

Page 13 / 14

## SECTION 16: Other information

### 16.1 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  
EL50 = Median effective loading  
ELINCS = European List of Notified Chemical Substances  
EmS = Emergency Schedules  
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  
LL50 = Median lethal loading  
LQ = Limited Quantities  
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

### 16.2 Other information

#### Classification procedure

Flam. Liq. 4: H227 Combustible Liquid. (Calculation method)

#### Modified position

SECTION 2 been added: P264 Wash hands thoroughly after handling.

SECTION 2 deleted: P273 Avoid release to the environment.

SECTION 2 deleted: Aquatic Chronic 3

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

SECTION 2 been added: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 2 been added: Contains no ingredients with endocrine-disrupting properties ( $\geq 0,1\%$ ).

SECTION 2 been added: Contains no ingredients with endocrine-disrupting properties ( $\geq 0,1\%$ ).

SECTION 2 been added: P102 Keep out of reach of children.

SECTION 2 been added: P101 If medical advice is needed, have product container or label at hand.

SECTION 12 been added: Spillages may penetrate the soil causing ground water contamination.

SECTION 16 deleted: Calculation method

Mirka Ltd  
66850 Jeppo

