

Mirka Ltd
66850 Jeppo

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

1.1 Product identifier

Polarshine Liquid Wax

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)
Multilingual response for emergency calls only. Non-emergency calls cannot be serviced at these numbers.
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

No classification.

2.2 Label elements

The product does not require a hazard warning label in accordance with Model Work Health and Safety Regulations (WHS - GHS 7) Australia.

Hazard pictograms

none

Signal word

none

Hazard statements

none

Precautionary statements

none

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2.3 Other hazards

Human health dangers	Contains no ingredients with endocrine-disrupting properties ($\geq 0,1\%$).
Environmental hazards	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 ($\geq 0,1\%$).
Other hazards	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
1 - < 5	Propano-2-ol CAS: 67-63-0
1 - < 3	2-(2-Butoxyethoxy)ethanol CAS: 112-34-5
0.01 - 0.1	2-Bromo-2-nitropropane-1,3-diol CAS: 52-51-7

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.
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.

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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
Fire extinguishing method of surrounding areas must be considered.

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 within 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 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 or spraying in enclosed areas.
Avoid contact with eyes and skin. Use personal protective equipment.

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.

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7.2 Conditions for safe storage, including any incompatibilities

Prevent penetration into the ground.
Do not store together with oxidizing agents.
Protect from heat/overheating.
Keep container in a well-ventilated place.
Keep container tightly closed.

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)

not applicable

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.
In full contact:
> 0.4 mm: butyl rubber, > 120 min (EN 374)

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 gases/vapours/aerosols.
Avoid contact with eyes and skin.

Respiratory protection

Not required under normal conditions.
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)

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

Physical state	liquid
Form	liquid
Color	whitish
Odor	characteristic
Odour threshold	No information available.
pH-value	No information available.
pH-value [1%]	No information available.
Boiling point [°C]	No information available.
Flash point [°C]	> 93 (> 200°F)
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	No information available.
Density [g/cm ³]	ca. 1.0
Relative density	No information available.
Bulk density [kg/m ³]	not applicable
Solubility in water	miscible
Solubility other solvents	No information available.
Partition coefficient [n-octanol/water]	not applicable
Kinematic viscosity	not applicable
Relative vapour density	No information available.
Evaporation speed	No information available.
Melting point [°C]	No information available.
Auto-ignition temperature	not self-igniting
Decomposition temperature [°C]	No information available.
Particle characteristics	not applicable

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.

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10.6 Hazardous decomposition products

No dangerous reactions known if used as directed.



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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity

Product
Based on the available information, the classification criteria are not fulfilled.
Substance
2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5
LD50, oral, Rat, 3384 mg/kg
2-Bromo-2-nitropropane-1,3-diol, CAS: 52-51-7
LD50, oral, Rat, 254 mg/kg
Propano-2-ol, CAS: 67-63-0
LD50, oral, Rat, 4570 mg/kg
Mixture: 5-chloro-2-methyl-2H- isothiazol-3-one/2-methyl-2H-isothiazol-3-one (3:1), CAS: 55965-84-9
LD50, oral, 64 mg/kg (ECHA. CLH Report)
LD50, oral, Rat, 53 mg/kg

Acute dermal toxicity

Product
Based on the available information, the classification criteria are not fulfilled.
Substance
2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5
LD50, dermal, Rabbit, 2700 mg/kg
2-Bromo-2-nitropropane-1,3-diol, CAS: 52-51-7
LD50, dermal, Rat, > 2000 mg/kg (OECD 402)
Propano-2-ol, CAS: 67-63-0
LD50, dermal, Rabbit, 13400 mg/kg
Mixture: 5-chloro-2-methyl-2H- isothiazol-3-one/2-methyl-2H-isothiazol-3-one (3:1), CAS: 55965-84-9
LD50, dermal, Rabbit, 87.12 mg/kg (ECHA. CLH Report)

Acute inhalational toxicity

Product
Based on the available information, the classification criteria are not fulfilled.
Substance
2-Bromo-2-nitropropane-1,3-diol, CAS: 52-51-7
LC50, inhalative, Rat, > 0.588 mg/l (Aerosol. 4h)
Propano-2-ol, CAS: 67-63-0
LC50, inhalative, Rat, 30 mg/l 4h
Mixture: 5-chloro-2-methyl-2H- isothiazol-3-one/2-methyl-2H-isothiazol-3-one (3:1), CAS: 55965-84-9
LC50, inhalative, Rat, 0.171 mg/l/4h (ECHA. CLH Report)

Skin corrosion/irritation

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

Substance
2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5
dermal, Rabbit, Study, non-irritating

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Propano-2-ol, CAS: 67-63-0
non-irritating
Mixture: 5-chloro-2-methyl-2H- isothiazol-3-one/2-methyl-2H-isothiazol-3-one (3:1), CAS: 55965-84-9
corrosive

Serious eye damage/irritation Based on the available information, the classification criteria are not fulfilled.

Substance
2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5
Eye, Rabbit, Study, irritant
Propano-2-ol, CAS: 67-63-0
irritant
Mixture: 5-chloro-2-methyl-2H- isothiazol-3-one/2-methyl-2H-isothiazol-3-one (3:1), CAS: 55965-84-9
Causes serious eye damage.

Respiratory or skin sensitisation EUH208: May produce an allergic reaction.
Calculation method

Substance
2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5
dermal, Guinea pig, OECD 406, non-sensitizing
2-Bromo-2-nitropropane-1,3-diol, CAS: 52-51-7
Guinea pig, OECD 406, non-sensitizing
Propano-2-ol, CAS: 67-63-0
dermal, non-sensitizing
Mixture: 5-chloro-2-methyl-2H- isothiazol-3-one/2-methyl-2H-isothiazol-3-one (3:1), CAS: 55965-84-9
dermal, sensitising

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

Substance
2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5
Ames-test, negativ
Propano-2-ol, CAS: 67-63-0
in vivo, negativ
in vitro, negativ
Mixture: 5-chloro-2-methyl-2H- isothiazol-3-one/2-methyl-2H-isothiazol-3-one (3:1), CAS: 55965-84-9
in vivo, negativ
in vitro, negativ

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

Substance
2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5
No information available., negativ

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

Substance
2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5
NOAEL, oral, Rat, 1 000 mg/kg bw/day, OECD 415, negativ, OECD 415,
2-Bromo-2-nitropropane-1,3-diol, CAS: 52-51-7
NOAEL, oral, in vivo, 10 mg/kg bw/d (Effect on developmental toxicity), no adverse effect observed



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NOAEL, oral, Rat, 150 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

2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5

No information available., negativ

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

Substance

2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5

NOAEL, oral, Rat, 250mg/kg, Study, negativ

NOAEC, inhalative, Rat, 94mg/m³, Study, negativ

LOAEL, oral, Rat, 1000mg/kg, Study

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

2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5

LC50, (96h), fish, 1300mg/l

EC50, (24h), Daphnia magna, 2850 mg/l

NOEC, (96h), Algae, > 100 mg/l

2-Bromo-2-nitropropane-1,3-diol, CAS: 52-51-7

LC50, (96h), Rainbow trout, 3.0 mg/L (OECD 203)

EC50, (3h), Activated sludge, 43 mg/L (OECD 209)

EC50, (72h), Bacteria, 0.068 mg/L (Anabaena flos-aqua_ OECD 201)

EC50, (48h), Daphnia sp., 1.04 mg/L (OECD 202)

NOEC, (72h), Rainbow trout, 0.0025 mg/L (Anabaena flos-aqua_ OECD 201)

NOEC, (28d), Rainbow trout, 2.61 mg/L (OECD 210)

NOEC, (21d), Daphnia sp., 0.06 mg/L (OECD 211)

EC20, (3h), Activated sludge, 2 mg/L (OECD 209)

Propano-2-ol, CAS: 67-63-0

EC50, (72h), Scenedesmus subspicatus, > 100 mg/l

EC50, (48h), Daphnia magna, 13299 mg/l

Mixture: 5-chloro-2-methyl-2H- isothiazol-3-one/2-methyl-2H-isothiazol-3-one (3:1), CAS: 55965-84-9

LC50, (96h), Oncorhynchus mykiss, 0.19 mg/l

EC50, (48h), Daphnia magna, 0.18 mg/l

ErC50, Skeletonema costatum, 0.003 mg/l

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12.2 Persistence and degradability

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

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

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 ($\geq 0,1\%$).

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

Restrictions	There are no product-specific restrictions, however, local council and resource consent conditions may apply, including requirements of trade waste consents.
Disposal method	Disposal of this product must comply with the requirements of state and local disposal regulations.
Contaminated packaging	Rinse containers with water before disposal. Preferably re-cycle container, otherwise send to landfill or similar.

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

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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 applicable

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

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

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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

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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

Modified position

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

SECTION 12 been added: Contains no ingredients with endocrine-disrupting properties ($\geq 0,1\%$).

SECTION 12 been added: Based on all available information not to be classified as PBT or vPvB respectively.

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