

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 Polishing Compound VF5**

### 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](http://www.mirka.com)  
E-mail [sales@mirka.com](mailto:sales@mirka.com)

#### Address enquiries to

**Technical information** [sales@mirka.com](mailto:sales@mirka.com)

**Safety Data Sheet** [sdb@chemiebuero.de](mailto:sdb@chemiebuero.de)

### 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

No classification.

### 2.2 Label elements

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

**Hazard pictograms** none

**Signal word** none

**Hazard statements** none

**Precautionary statements** none

**Special labelling** AUH066 Repeated exposure may cause skin dryness or cracking.

### 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.

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### SECTION 3: Composition / Information on ingredients

#### 3.1 Substances

not applicable

#### 3.2 Mixtures

The product is a mixture.

Range [%]	Substance
10 - < 25	Naphtha (petroleum), hydrotreated heavy CAS: 64742-48-9
10 - < 25	Aluminium oxide CAS: 1344-28-1
10 - < 25	White mineral oil (petroleum) CAS: 8042-47-5
< 2,5	Glycerol CAS: 56-81-5
0,1 - < 1	Oxirane, 2-methyl-, polymer with oxirane, Oxirane, 2-methyl-, polymer with oxirane, CAS: 166736-08-9

Comment on component parts none

### 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>	Do not induce vomiting. Rinse out mouth and give plenty of water to drink. Seek medical advice.

#### 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

<b>Suitable extinguishing media</b>	foam, dry powder, water spray jet, carbon dioxide
<b>Extinguishing media that must not be used</b>	Full water jet

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## 5.2 Special hazards arising from the substance or mixture

Not combusted hydrocarbons.  
Risk of formation of toxic pyrolysis products.  
Nitrogen oxides (NO<sub>x</sub>).

## 5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.  
Use self-contained breathing apparatus.  
  
Cool containers at risk with water spray jet.  
Collect contaminated firefighting water separately, must not be discharged into the drains.  
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.  
Avoid spilling in enclosed areas.  
During mechanical processing vacuuming at processing machines is necessary.  
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.  
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

Keep only in original container.  
Prevent penetration into the ground.  
Provide solvent-resistant and impermeable floor.  
  
Do not store together with oxidizing agents.  
  
Keep container in a well-ventilated place.  
Keep container tightly closed.  
Protect from heat/overheating.  
Recommended storage temperature: 5 - 30 °C

### 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 (AU)

Substance
Aluminium oxide
CAS: 1344-28-1
Time Weighted Average (TWA): 5 mg/m <sup>3</sup> , inhalable dust
Glycerol
CAS: 56-81-5
Time Weighted Average (TWA): 10 mg/m <sup>3</sup> , Glycerin mist (a)

### 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>	safety glasses (EN 166:2001)
<b>Hand protection</b>	The details concerned are recommendations. Please contact the glove supplier for further information. ≥ 0.45 mm, Nitrile rubber, >480 min (EN 374-1/-2/-3).
<b>Skin protection</b>	Protective clothing (EN 340)
<b>Other</b>	Do not inhale gases/vapours/aerosols. Avoid contact with eyes and skin. 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.
<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>	not applicable
<b>Delimitation and monitoring of the environmental exposition</b>	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 viscous
Color	grey
Odor	characteristic
Odour threshold	No information available.
pH-value	7-10 (20°C; 68°F)
pH-value [1%]	No information available.
Boiling point [°C]	> 100 (> 212°F)
Flash point [°C]	> 100 (> 212 °F)
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Oxidising properties	none
Vapour pressure/gas pressure [kPa]	2,3 (20°C; 68°F)
Density [g/ml]	1,1 (20°C; 68°F)
Bulk density [kg/m <sup>3</sup> ]	not applicable
Solubility in water	miscible
Solubility other solvents	No information available.
Partition coefficient [n-octanol/water]	No information available.
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

Oxidizing agent

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#### 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 oral toxicity

Product
Based on the available information, the classification criteria are not fulfilled.
Substance
White mineral oil (petroleum), CAS: 8042-47-5
LD50, oral, Rat, > 5000 mg/kg
Glycerol, CAS: 56-81-5
LD50, oral, Rat, 12 600 mg/kg
Naphtha (petroleum), hydrotreated heavy, CAS 64742-48-9, CAS: 64742-48-9
LD50, oral, Rat, > 5000 mg/kg bw (OECD 401)
Oxirane, 2-methyl-, polymer with oxirane, Oxirane, 2-methyl-, polymer with oxirane,, CAS: 166736-08-9
LD50, oral, > 300 - 2000 mg/kg

#### Acute dermal toxicity

Product
Based on the available information, the classification criteria are not fulfilled.
Substance
White mineral oil (petroleum), CAS: 8042-47-5
LD50, dermal, Rabbit, > 2000 mg/kg
Naphtha (petroleum), hydrotreated heavy, CAS 64742-48-9, CAS: 64742-48-9
LD50, dermal, Rabbit, > 3000 mg/kg bw (OECD 402)

#### Acute inhalational toxicity

Product
Based on the available information, the classification criteria are not fulfilled.
Substance
White mineral oil (petroleum), CAS: 8042-47-5
LC50, inhalative, Rat, > 5 mg/l/4h

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

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## SECTION 12: Ecological information

### 12.1 Toxicity

Substance
White mineral oil (petroleum), CAS: 8042-47-5
LC50, (72h), Pseudokirchneriella subcapitata, >= 100 mg/l
LC50, (96h), Oncorhynchus mykiss, > 100 mg/l
Glycerol, CAS: 56-81-5
LC50, (96h), fish, > 1000 mg/l
Naphtha (petroleum), hydrotreated heavy, CAS 64742-48-9, CAS: 64742-48-9
EL0, (72h), Pseudokirchneriella subcapitata, 1000 mg/l (Lit.)
EL0, (48h), Daphnia magna, 1000 mg/l (Lit.)
LL0, (96h), Oncorhynchus mykiss, 1000 mg/l (Lit.)
Oxirane, 2-methyl-, polymer with oxirane, Oxirane, 2-methyl-, polymer with oxirane,, CAS: 166736-08-9
LC50, (48h), Daphnia magna, > 10 - 100 mg/l
LC50, (96h), Danio rerio, > 10 - 100 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>	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

not applicable

### 12.6 Endocrine disrupting properties

No information available.

### 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, local council and resource consent conditions may apply, including requirements of trade waste consents.
<b>Disposal method</b>	Disposal of this product must comply with the requirements of state and local disposal regulations.
<b>Contaminated packaging</b>	Preferably re-cycle container, otherwise send to landfill or similar.

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#### 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

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#### 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

No information available.

### SECTION 15: Regulatory information

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) Poison Schedule: 5

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 material are included on or exempted from listing on the AICS 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 5 been added: Collect contaminated firefighting water separately, must not be discharged into the drains.

SECTION 6 been added: Wear suitable protective equipment. For personal protection see SECTION 8.

SECTION 7 been added: Avoid contact with eyes and skin. Use personal protective equipment.

SECTION 8 been added: 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.

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

SECTION 12 been added: No information available.

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