

Mirka (UK) Ltd

MK4 1GA Milton Keynes

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

1.1 Product identifier

Polarshine 35 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

For all uses not specified in SECTION 1.2.1

1.3 Details of the supplier of the safety data sheet

Company Mirka (UK) Ltd

Saxon House, Shirwell Crescent, Furzton Lake MK4 1GA Milton Keynes / GREAT BRITAIN

Phone +44 (0)1908 866100 Homepage www.mirka.com E-mail sales@mirka.com

Address enquiries to

Technical information sales@mirka.com

Safety Data Sheet sdb@chemiebuero.de (No dispatch of safety data sheets)

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 UK: +(44)-870-8200418 (English)

CHEMTREC Ireland (Dublin): +(353)-19014670 (English, Irish Gaelic)

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 [REGULATION (GB) CLP]

No classification.

2.2 Label elements

The product is required to be labelled in accordance with regulation CLP.

Hazard pictogramsnoneSignal wordnoneHazard statementsnonePrecautionary statementsnone

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 The substance/mixture does not contain components considered to have endocrine disrupting

properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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.

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU)

2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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	
30 - 55	Aluminium oxide	
	CAS: 1344-28-1, EINECS/ELINCS: 215-691-6, Reg-No.: 01-2119529248-35-XXXX	
10 - < 20	Hydrocarbons, C11- C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics	
	EINECS/ELINCS: 926-141-6, Reg-No.: 01-2119456620-43-XXXX	
	GHS/CLP: Asp. Tox. 1: H304 - EUH066	
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	

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.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Forward this sheet to your doctor.



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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

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 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.

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.

During mechanical processing vacuuming at processing machines is necessary.

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.

Contaminated work clothing should not be allowed out of the workplace.

Take off contaminated clothing and wash before reuse.



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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



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SECTION 8: Exposure controls / personal protection

Long-term exposure: 200E mg/m³, Germany

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

Substance	
White mineral oil (petroleum)	
CAS: 8042-47-5, EINECS/ELINCS: 232-455-8, Reg-No.: 01-2119487078-27-XXXX	
Long-term exposure: 5 mg/m³, oil mist TWA, ACGIH	
Aluminium oxide	
CAS: 1344-28-1, EINECS/ELINCS: 215-691-6, Reg-No.: 01-2119529248-35-XXXX	
Long-term exposure: 10 mg/m³, inhalable dust (respirable dust: 4 mg/m³)	
Hydrocarbons, C11- C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics	
EINECS/ELINCS: 926-141-6, Reg-No.: 01-2119456620-43-XXXX	
Long-term exposure: 1200 mg/m³	
Polyethylene glycol	
CAS: 25322-68-3, EINECS/ELINCS: Polymer	

DNEL

Substance	
Aluminium oxide, CAS: 1344-28-1	
Industrial, inhalative (dust), Long-term - systemic effects, 15.63 mg/m³ (AF=3)	
Industrial, inhalative (dust), Long-term - local effects, 15.63 mg/m³ (AF=3)	
general population, oral, Long-term - systemic effects, 6.58 mg/m³ (AF=20)	
White mineral oil (petroleum), CAS: 8042-47-5	
Industrial, inhalative, Long-term - systemic effects, 164.56 mg/m³	
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/m³	
Hydrocarbons, C11- C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics	
There are no DNEL values established for the substance.	

PNEC

Substance	
Aluminium oxide, CAS: 1344-28-1	
There are no PNEC values established for the substance.	
Hydrocarbons, C11- C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics	
There are no PNEC values established for the substance.	



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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, >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 (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 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 not applicable

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

Physical stateLiquidFormpastyColorwhiteOdormild

Odour threshold

pH-value

pH-value [1%]

Boiling point [°C]

No information available.

No information available.

No information available.

Flash point [°C] > 65°C / >149°F Flammability (solid, gas) [°C] not applicable

Lower explosion limitNo information available.Upper explosion limitNo information available.

Oxidising properties no

Vapour pressure/gas pressure [kPa] No information available.

Density [g/cm³] 1.4

Relative density No information available.

Bulk density [kg/m³] not applicable

Solubility in water miscible

Solubility other solvents No information available.

Partition coefficient [n-octanol/water] not applicable

Kinematic viscosity > 20.5 mm²/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.

Safety Data Sheet (UK REACH) (GB) Polarshine 35 Polishing Compound



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10.6 Hazardous decomposition products

No decomposition if used and stored according to specifications.



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SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity

Product

ATE-mix, oral, > 2000 mg/kg bw

Substance

Aluminium oxide, CAS: 1344-28-1

LD50, oral, Rat, > 5000 mg/kg

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

LD50, oral, Rat, > 5000 mg/kg

Hydrocarbons, C11- C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics

LD50, oral, Rat, >5000 mg/kg (OECD 401)

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

Hydrocarbons, C11- C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics

LD50, dermal, Rat, >5000 mg/kg (OECD 402)

Acute inhalational toxicity

Product

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

Substance

Aluminium oxide, CAS: 1344-28-1

LC50, inhalative, Rat, > 5 mg/m³

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

LC50, inhalative, Rat, 5 mg/L/4h

Hydrocarbons, C11- C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics

LC50, inhalative, Rat, >5000 mg/m³/8h (OECD 403)

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

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

no adverse effect observed

Hydrocarbons, C11- C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Rabbit, not irritating (OECD 405)

Skin corrosion/irritation

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

Substance



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Aluminium oxide, CAS: 1344-28-1

no adverse effect observed

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

no adverse effect observed

Hydrocarbons, C11- C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Rabbit, not irritating (OECD 404)

Respiratory or skin sensitisation

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

Substance

Aluminium oxide, CAS: 1344-28-1

inhalative, non-sensitizing

dermal, non-sensitizing

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

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

Hydrocarbons, C11- C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics

NOAEC, inhalative, Rat, 1500-2500 mg/m³

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.

Substance

Aluminium oxide, CAS: 1344-28-1

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

Carcinogenicity

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

Substance

Aluminium oxide, CAS: 1344-28-1

NOAEC, inhalative, Rat, 75 mg/m³, no adverse effect observed

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

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

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.

Has a degreasing effect on the skin.

Toxicological data of complete product are not available.



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The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

11.2 Information on other hazards

Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Other information none

SECTION 12: Ecological information

12.1 Toxicity

Substance	
White mineral oil (petroleum), CAS: 8042-47-5	
LL50, (48h), Daphnia magna, 100 mg/L	
LL50, (96h), fish, 100 - 10000 mg/L	
Hydrocarbons, C11- C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics	
EL0, (72h), Pseudokirchneriella subcapitata, 1000 mg/l	
EL0, (48h), Daphnia magna, 1000 mg/l	
LL0, (96h), Oncorhynchus mykiss, 1000 mg/l	

12.2 Persistence and degradability

Behaviour in environment

compartments

No information available.

Behaviour in sewage plant

No information available.

Biological degradability

EG Nr 926-141-6: >= 60%. 28d (OECD 301 F) - The product is readily biodegradable.

CAS 8042-47-5 The product is not 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

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Ecological data of complete product are not available.

Do not discharge product unmonitored into the environment.



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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

Coordinate disposal with the disposal contractor/authorities if necessary.

Waste no. (recommended)

120121

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

Packaging that cannot be cleaned should be disposed of as for product.

150102 Waste no. (recommended)

SECTION 14: Transport information

14.1 UN number or ID number

Transport by land according to ADR/RID

not applicable

Inland navigation (ADN)

not applicable

Marine transport in accordance with

IMDG

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

IMDG

Marine transport in accordance with 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

not applicable

ADR/RID

Inland navigation (ADN) not applicable

Marine transport in accordance with not applicable

IMDG

Air transport in accordance with IATA 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

14.5 Environmental hazards

Transport by land according to

ADR/RID

no

Inland navigation (ADN) no

Marine transport in accordance with no

IMDG

Air transport in accordance with IATA no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

EEC-REGULATIONS 2008/98/EC 2000/532/EC); 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006

(REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131;

(EU) 517/2014

TRANSPORT-REGULATIONS ADR (2021); IMDG-Code (2021, 40. Amdt.); IATA-DGR (2022)

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

REACH; GB CLP.

- Observe employment restrictions

for people

not applicable

- VOC (2010/75/CE) 15,5%

15.2 Chemical safety assessment

For the following substances of this preparation a chemical safety assessment has been

carried out: EG Nr 926-141-6

SECTION 16: Other information

16.1 Hazard statements (SECTION 3)

EUH066 Repeated exposure may cause skin dryness or cracking.

H304 May be fatal if swallowed and enters airways.



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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

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

IVIS = In vitro irritation score

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

16.3 Other information

Classification procedure

Modified position

SECTION 2 been added: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 2 been added: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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

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