Mirka Ltd
66850 Jeppo

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

1.1 Product identifier

Polarshine 3 Finishing Antistatic 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

For all uses not specified in SECTION 1.2.1

1.3 Details of the supplier of the safety data sheet

Company

Mirka Canada Inc.
2755 Boulevard Pitfield
H4S 1T2 Saint-Laurent, Quebec / CANADA
Phone 1 855 234 NET5 (6385) / 1 514 400 3783
Homepage www.mirka.com/en-CA/ca/
E-mail custserv.ca@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)
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 the hazard criterias of the "Hazardous Product Regulation" - HPR [WHMIS 2015].

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 skin thoroughly after handling.
P280 Wear protective gloves / eye protection / face 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 to in accordance with local / national / international regulation.

2.3 Other hazards

Human health dangers
Has a degreasing effect on the skin.
Contains no ingredients with endocrine-disrupting properties (≥ 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 (≥ 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
20 - < 25	Distillates (petroleum), hydrotreated light
	CAS: 64742-47-8
1 - < 5	2-Methoxy-1-methylethyl acetate
	CAS: 108-65-6
0.01 - < 0.1	2-Bromo-2-nitropropane-1,3-diol
	CAS: 52-51-7

Comment on component parts
All chemical substances in this material are included on or exempted from listing on the DSL Inventory.
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

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.
If swallowed or in the event of vomiting, risk of product entering the lungs.
Forward this sheet to the doctor.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

All extinguishing media are suitable but method must take into account the surrounding area to minimize dispersion.

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.

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 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.
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 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.

7.2 Conditions for safe storage, including any incompatibilities

Prevent penetration into the ground.
Provide solvent-resistant and impermeable floor.
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

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (CA)

Substance
2-Methoxy-1-methylethyl acetate
CAS: 108-65-6
Long-term exposure: 50 ppm, 270 mg/m³

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
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	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

Physical state	Liquid
Form	viscous
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]	> 65/ > 149°F
Flammability (solid, gas) [°C]	No information available.
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Oxidizing properties	no
Vapour pressure/gas pressure [kPa]	No information available.
Density [g/cm³]	ca. 0.95
Relative density	No information available.
Bulk density [kg/m³]	not applicable
Solubility in water	partially 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

No special measures necessary.

10.6 Hazardous decomposition products

No decomposition if used and stored according to specifications.

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-Bromo-2-nitropropane-1,3-diol, CAS: 52-51-7
LD50, oral, Rat, 254 mg/kg
Distillates (petroleum), hydrotreated light, CAS: 64742-47-8
LD50, oral, Rat, > 5000 mg/kg
2-Methoxy-1-methylethyl acetate, CAS: 108-65-6
LD50, oral, Rat, > 5000 mg/kg, OECD 401

Acute dermal 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
LD50, dermal, Rat, > 2000 mg/kg (OECD 402)
Distillates (petroleum), hydrotreated light, CAS: 64742-47-8
LD50, dermal, Rabbit, > 5000 mg/kg
2-Methoxy-1-methylethyl acetate, CAS: 108-65-6
LD50, dermal, Rat, > 5000 mg/kg, OECD 402

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)
Distillates (petroleum), hydrotreated light, CAS: 64742-47-8
LC50, inhalative, Rat, > 5000 mg/m³
2-Methoxy-1-methylethyl acetate, CAS: 108-65-6
LC0, inhalative, Rat, 1728 - 1883 ppm

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

Substance
2-Methoxy-1-methylethyl acetate, CAS: 108-65-6
Eye, Rabbit, OECD 405, non-irritating

Skin corrosion/irritation Based on the available information, the classification criteria are not fulfilled.

Substance
2-Methoxy-1-methylethyl acetate, CAS: 108-65-6
dermal, Rabbit, OECD 404, non-irritating

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

Substance
2-Bromo-2-nitropropane-1,3-diol, CAS: 52-51-7
Guinea pig, OECD 406, non-sensitizing
2-Methoxy-1-methylethyl acetate, CAS: 108-65-6
dermal, Guinea pig, OECD 406, non-sensitizing

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.

Substance
2-Methoxy-1-methylethyl acetate, CAS: 108-65-6
NOAEL, dermal, Rabbit, 2675 mg/kg bw/day, OECD 410, adverse effect observed
NOAEL, oral, Rat, 1000 mg/kg bw/day, OECD 422, no adverse effect observed
NOAEC, inhalative, Rat, 1650 mg/m³, adverse effect observed

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

Substance
2-Methoxy-1-methylethyl acetate, CAS: 108-65-6
in vitro, OECD 471, negativ

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

Substance
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
NOAEL, oral, Rat, 150 mg/kg bw/d (Effect on fertility), no adverse effect observed
2-Methoxy-1-methylethyl acetate, CAS: 108-65-6
NOAEL, oral, Rat, 1000 mg/kg bw/day, no adverse effect observed
NOAEC, inhalative, Rat, 5400 mg/m³, no adverse effect observed

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

Substance
2-Methoxy-1-methylethyl acetate, CAS: 108-65-6
NOAEC, inhalative, Rat, 11058 mg/m³, OECD 453, no adverse effect observed

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

General remarks

Toxicological data of complete product are not available.

SECTION 12: Ecological information

12.1 Toxicity

Substance
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, (48h), Daphnia sp., 1.04 mg/L (OECD 202)
EC50, (72h), Bacteria, 0.068 mg/L (Anabaena flos-aqua_ OECD 201)
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)
2-Methoxy-1-methylethyl acetate, CAS: 108-65-6
LC50, (96h), fish, 100 - 180 mg/L
EC50, (72h), Algae, >1 g/L
EC50, (48h), Daphnia magna, > 500 mg/l

12.2 Persistence and degradability

Behaviour in environment compartments	No information available.
Behaviour in sewage plant	No information available.
Biological degradability	CAS 52-51-7: > 70% (OECD 301 B); 63.5% (OECD 314) CAS 64742-48-9: 80%. 28d

12.3 Bioaccumulative potential

CAS 52-51-7: Log Kow=0.38 (OECD 107); BCF=3.16 (EPIWIN)

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.

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

13.1 Waste treatment methods

Waste material must be disposed of in accordance with national and local regulations.

Product

Coordinate disposal with the disposal contractor/authorities if necessary.

Contaminated packaging

Uncontaminated packaging may be taken for recycling.
Packaging that cannot be cleaned should be disposed of as for product.

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
Canadian Code for the Transportation of Dangerous Goods (TDG)	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"
Canadian Code for the Transportation of Dangerous Goods (TDG)	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
Canadian Code for the Transportation of Dangerous Goods (TDG)	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
Canadian Code for the Transportation of Dangerous Goods (TDG)	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
Canadian Code for the Transportation of Dangerous Goods (TDG)	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

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

TRANSPORT-REGULATIONS	TDG-Regulations; ADR (2021); IMDG-Code (2021, 40. Amdt.); IATA-DGR (2022)
NATIONAL REGULATIONS (CA):	HPR-Hazardous Products Regulations (SOR/2015-17); WHMIS 2015;
- Observe employment restrictions for people	Observe employment restrictions for young people.
- VOC - Volatile Organic Compounds	ca. 20 %

15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

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. (Expert judgement)

Modified position	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 (≥ 0,1%).
	SECTION 2 been added: Contains no ingredients with endocrine-disrupting properties (≥ 0,1%).
	SECTION 2 been added: P101 If medical advice is needed, have product container or label at hand.
	SECTION 2 been added: P102 Keep out of reach of children.

Copyright: Chemiebüro®