

KWH Mirka Ltd
66850 Jeppo

Date printed 30.10.2015, Revision 18.06.2015

Version 03. Supersedes version: 02

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

1.1 Product identifier

Polarshine 3 Finishing Nano 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 KWH Mirka Ltd
Pensalavägen 210
66850 Jeppo / FINLAND
Phone +358 20 760 2111
Fax +358 20 760 2290
Homepage www.mirka.com
E-mail sales@mirka.com

Address enquiries to

Technical information sales@mirka.com
Safety Data Sheet sdb@chemiebuero.de

1.4 Emergency telephone number

Company +358 20 760 2111 (8:00 - 16:00)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Flam. Liq. 4: H227 Combustible Liquid.
Eye Irrit. 2B: H320 Causes eye irritation.

2.2 Label elements

The product is classified as hazardous in accordance to OSHA Standard 29 CFR 1910.1200 (HCS 2012)

Hazard pictograms none

Signal word WARNING

Hazard statements H227 Combustible Liquid.
H320 Causes eye irritation.

Precautionary statements P102 Keep out of reach of children.
P210 Keep away from flames and hot surfaces.- No smoking.
P370+P378 In case of fire: Use Water spray, Carbon dioxide, Foam, Dry chemical to extinguish.
P403+P235 Store in a well-ventilated place. Keep cool.
P264 Wash hands thoroughly after handling.
P280 Wear protective gloves/eye protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.
P501 Dispose of contents/container to in accordance with local/regional/national/international regulation.

Special labelling Repeated exposure may cause skin dryness or cracking.

Contains: Mixture: 5-Chloro-2-methyl-2H-isothiazolin-3-one/2-Methyl-4-isothiazolin-3-one (3:1). EUH208 May produce an allergic reaction.

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2.3 Other hazards

| | |
|--------------------------|--|
| Physico-chemical hazards | Combustible. |
| Human health dangers | Has a degreasing effect on the skin. |
| Other hazards | Further hazards were not determined with the current level of knowledge. |

SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

| Range [%] | Substance |
|-----------|---|
| 15 - 25 | Hydrocarbons, C10-C13, n-alkanes, <2 % aromatics CAS: 64771-72-8, GHS/CLP: Asp. Tox. 1: H304; Flam. Liq. 4 H227 |
| 1 - < 3 | Alkanes, C9-12-iso CAS: 90622-57-4, EINECS/ELINCS: 923-037-2, GHS/CLP: Flam. Liq. 3: H226 - Asp. Tox. 1: H304 - Aquatic Chronic 4: H413 |
| < 0,005 | Mixture: 5-Chloro-2-methyl-2H-isothiazolin-3-one/2-Methyl-4-isothiazolin-3-one (3:1) CAS: 55965-84-9, EU-INDEX: 613-167-00-5 GHS/CLP: Acute Tox. 3: H301 H311 H331 - Skin Corr. 1B: H314 - Skin Sens. 1: H317 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410 |

Comment on component parts For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

| | |
|---------------------|---|
| General information | Change soaked clothing. |
| 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 | Supply with medical care. 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. |

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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.
Fire residues and contaminated firefighting water must be disposed of in accordance with 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.

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.
Use solvent-resistant equipment.
During mechanical processing vacuuming at processing machines is necessary.
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

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (US)

| Range [%] | Substance |
|-----------|---|
| 1 - 5 | Alkanes, (C9-C12)-Iso |
| | CAS: 90622-57-4, EINECS/ELINCS: 292-459-0 |
| | Long-term exposure: 100 ppm, 525 mg/m ³ , OSHA |

8.2 Exposure controls

| | |
|--|---|
| Additional advice on system design | Ensure adequate ventilation on workstation. |
| Eye protection | Safety glasses. |
| 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). In splash contact > 0,4 mm: Nitrile rubber, >480 min (EN 374). |
| Skin protection | Protective clothing. 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 | Breathing apparatus in the event of high concentrations. Short term: filter apparatus, combination filter A-P1. |
| 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

| | |
|---|--|
| Form | viscous |
| Color | whitish |
| Odor | characteristic |
| Odour threshold | not determined |
| pH-value | 8,5 |
| pH-value [1%] | not determined |
| Boiling point [°C] | not determined |
| Flash point [°C] | > 65/ > 149°F |
| Flammability [°C] | not determined |
| Lower explosion limit | not determined |
| Upper explosion limit | not determined |
| Oxidizing properties | no |
| Vapour pressure/gas pressure [kPa] | not determined |
| Density [g/ml] | 0,946 |
| Bulk density [kg/m ³] | not determined |
| Solubility in water | partially miscible |
| Partition coefficient [n-octanol/water] | not determined |
| Viscosity | > 20,5 mm ² /s (40°C / 104°F) |
| Relative vapour density determined in air | not determined |
| Evaporation speed | not determined |
| Melting point [°C] | not determined |
| Autoignition temperature [°C] | not determined |
| Decomposition temperature [°C] | not determined |

9.2 Other information

No information available.

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 hazardous decomposition products known.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

| |
|------------------------------|
| Product |
| ATE-mix, oral, > 2000 mg/kg. |

| Range [%] | Substance |
|-----------|---|
| < 0,005 | Mixture: 5-Chloro-2-methyl-2H-isothiazolin-3-one/2-Methyl-4-isothiazolin-3-one (3:1), CAS: 55965-84-9 |
| | LD50, dermal, Rabbit: ca. 100 mg/kg. |
| | LD50, oral, Rat: ca. 66 mg/kg. |
| | LC50, inhalative, Rat: 0,33 mg/l (4h). |
| 15 - 25 | Hydrocarbons, C10-C13, n-alkanes, <2 % aromatics, CAS: 64771-72-8 |
| | LD50, oral, Rat: > 2000 mg/kg. |

Serious eye damage/irritation not determined

Skin corrosion/irritation not determined

Respiratory or skin sensitisation not determined

Specific target organ toxicity — single exposure not determined

Specific target organ toxicity — repeated exposure not determined

Mutagenicity not determined

Reproduction toxicity not determined

Carcinogenicity not determined

General remarks Frequent persistent contact with the skin can cause skin irritation.

Toxicological data of complete product are not available.
 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.

SECTION 12: Ecological information

12.1 Toxicity

| Range [%] | Substance |
|-----------|---|
| < 0,005 | Mixture: 5-Chloro-2-methyl-2H-isothiazolin-3-one/2-Methyl-4-isothiazolin-3-one (3:1), CAS: 55965-84-9 |
| | LC50, (96h), Oncorhynchus mykiss: 0,22 mg/l. |
| | EC50, (48h), Daphnia magna: 0,12 mg/l. |

12.2 Persistence and degradability

Behaviour in environment compartments not determined

Behaviour in sewage plant not determined

Biological degradability not determined

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

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12.6 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

| | |
|--------------------------------------|--|
| 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. |
| RCRA Hazard Class (40CFR 261) | Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities. |

SECTION 14: Transport

14.1 UN number

See SECTION 14.2 in accordance with UN shipping name

14.2 UN proper shipping name

Transport by land according to ADR/RID 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"
DOT Road Shipment Information (49 CFR) UN/NA NA1993 Combustible liquid, n.o.s.
Footnote: This material is not regulated under 49 CFR in a container of 119 gallon capacity or less when transported solely by land. Comb liq III

14.3 Transport hazard class(es)

See SECTION 14.2 in accordance with UN shipping name

14.4 Packing group

See SECTION 14.2 in accordance with UN shipping name

14.5 Environmental hazards

See SECTION 14.2 in accordance with UN shipping name

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

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SECTION 15: Regulatory information

US Regulations

National regulations

29 CFR 1910.1200-HCS 2012, OSHA-PEL, ACGIH-TLV, NTP, IARC, SARA Title III, NFPA, TSCA, California - Prop. 65

- SARA, 302

This product is not classified as hazardous under SARA 302.

- SARA, 311

This product is classified as hazardous under SARA 311.

- SARA, 313

This product contain one ingredient regulated under this list(40 CFR part 372.65):

Cyclohexane (CAS 110-82-7)

This product contain one ingredient regulated under this list(40 CFR part 372.65): < 0.0005% Dioxan (CAS 123-91-1)

- CA Proposition 65

Some chemical substances < 0.0005% Dioxan (CAS 123-91-1) in this material are named in California-P65 list.

- TSCA

All chemical substances in this material are included on or exempted from listing on the TSCA Inventory.

- FDA

not determined

American Conference of Governmental Industrial Hygienists - ACGIH

[< 0.0005% Dioxan (CAS 123-91-1)]

International Agency for Research on Cancer IARC

[< 0.0005% Dioxan (CAS 123-91-1)]

National Toxicology Program - NTP

This product is named NTP - National Toxicology Program (contains crystalline silica).

This product is named NTP - National Toxicology Program (contains methanol).

This product is named NTP - National Toxicology Program (contains bronopol).

HAP-VOC

ca. 270 g/l

Transport-regulations

DOT-Classification, ADR (2015); IMDG-Code (2015, 37. Amdt.); IATA-DGR (2015).

SECTION 16: Other information

16.1 Hazard statements (SECTION 3)

H410 Very toxic to aquatic life with long lasting effects.

H400 Very toxic to aquatic life.

H317 May cause an allergic skin reaction.

H314 Causes severe skin burns and eye damage.

H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.

H319 Causes serious eye irritation.

H315 Causes skin irritation.

H225 Highly flammable liquid and vapour.

H413 May cause long lasting harmful effects to aquatic life.

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

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16.2 Abbreviations and acronyms:

ACGIH = American Conference of Governmental Industrial Hygienists;
 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;
 CAS = Chemical Abstracts Service;
 CERCLA = Comprehensive Environmental Response, Compensation and Liability Act;
 CFR = Code of Federal Regulations;
 CPR = Controlled Products Regulations;
 DMEL = Derived Minimum Effect Level;
 DNEL = Derived No Effect Level;
 DOT = Department of Transportation;
 EC50 = Median effective concentration;
 EPA = Environmental Protection Agency;
 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;
 IARC = International Agency of Research on Cancer;
 IATA = International Air Transport Association;
 TSCA = Toxic Substance Control Act;
 HMIS = Hazardous Materials Identification System;
 NFPA = National Fire Protection Association;
 NIOSH = National Institute for Occupational Safety and Health;
 OSHA = Occupational Safety and Health Administration;
 LC50 = Lethal concentration, 50%;
 LD50 = Median lethal dose, 50%;
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships;
 PBT = Persistent, Bioaccumulative and Toxic substance;
 PNEC = Predicted No-Effect Concentration;
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals;
 SARA = Superfund Amendments and Reauthorization Act;
 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 Ratings

HMIS Ratings

| | | |
|----------------------------|----------|---|
| HEALTH | 1 | 1 - Slight Hazard |
| FLAMMABILITY | 2 | 2 - Moderate Hazard |
| REACTIVITY | 0 | 0 - Minimal Hazard |
| PERSONAL PROTECTION | X | X - Personal protection rating to be supplied by user depending on use conditions |

NFPA Ratings

| |
|---------------------|
| 2 |
| 1 0 |
| - |

TOP, FLAMMABILITY: 2 - Moderate Hazard
 LEFT, HEALTH: 1 - Slight Hazard RIGHT, REACTIVITY: 0 - Minimal Hazard
 BOTTOM, SPECIAL NOTICE: -