

Mirka Ltd
66850 Jeppo

Date printed 20.12.2022, Revision 19.12.2022

Version 04. Supersedes version: 03

Page 1 / 14

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

1.1 Product identifier

Polarshine 45 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

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
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)
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)

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 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.

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 flames and hot surfaces. No smoking.
P264 Wash hands thoroughly after handling.
P280 Wear protective gloves.
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.
P501 Dispose of contents/container to in accordance with local/regional/national/international regulation.

Mirka Ltd
 66850 Jeppo

Date printed 20.12.2022, Revision 19.12.2022

Version 04. Supersedes version: 03

Page 2 / 14

2.3 Other hazards

Human health dangers	Has a degreasing effect on the skin. 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
30 - < 40	Aluminium oxide CAS: 1344-28-1
15 - < 20	Distillates (petroleum), hydrotreated light CAS: 64742-47-8
10 - < 15	White mineral oil (petroleum) CAS: 8042-47-5
1 - < 3	Terpineol CAS: 8000-41-7

Comment on component parts 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.
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
Extinguishing media that must not be used	Full water jet.

Mirka Ltd
66850 Jeppo

Date printed 20.12.2022, Revision 19.12.2022

Version 04. Supersedes version: 03

Page 3 / 14

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.
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 open flames, hot surfaces and sources of ignition.
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.

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

Mirka Ltd
 66850 Jeppo

Date printed 20.12.2022, Revision 19.12.2022

Version 04. Supersedes version: 03

Page 4 / 14

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (US)

Substance
Aluminium oxide
CAS: 1344-28-1
Long-term exposure: 15 mg/m ³ , Total dust
Naphtha (petroleum), hydrotreated heavy, CAS 64742-48-9 / Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics, EC / List no.: 918-481-9
Long-term exposure: 100 ppm, 525 mg/m ³ , OSHA
White mineral oil (petroleum)
CAS: 8042-47-5
Long-term exposure: 5 mg/m ³ , TWA (as mist)

DNEL

Substance
Aluminium oxide, CAS: 1344-28-1
Industrial, inhalative (dust), Long-term - systemic effects, 15.63 mg/m ³ (AF=3)
Industrial, inhalative (dust), Long-term - local effects, 15.63 mg/m ³ (AF=3)
general population, oral, Long-term - systemic effects, 6.58 mg/m ³ (AF=20)
White mineral oil (petroleum), CAS: 8042-47-5
Industrial, inhalative, Long-term - systemic effects, 164.56 mg/m ³
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/m ³
Terpineol, CAS: 8000-41-7
Industrial, dermal, Long-term - systemic effects, 6.36 mg/kg bw/day
Industrial, inhalative, Long-term - systemic effects, 44.8 mg/m ³
general population, oral, Long-term - systemic effects, 2.69 mg/kg bw/day
general population, dermal, Long-term - systemic effects, 2.69 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 7.96 mg/m ³

PNEC

Substance
Aluminium oxide, CAS: 1344-28-1
There are no PNEC values established for the substance.
Terpineol, CAS: 8000-41-7
oral (food), 16.6 mg/kg food
soil, 0.045 mg/kg soil dw
sediment (seawater), 0.026 mg/kg sediment dw
sediment (freshwater), 0.263 mg/kg sediment dw
sewage treatment plants (STP), 2.57 mg/L
freshwater, 12 µg/L
seawater, 1.2 µg/L

Mirka Ltd
 66850 Jeppo

Date printed 20.12.2022, Revision 19.12.2022

Version 04. Supersedes version: 03

Page 5 / 14

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. > 0.11 mm. Butyl rubber, >480 min (EN 374-1/-2/-3).
Skin protection	Protective clothing (EN 340) 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 dust. Do not inhale vapors. Avoid contact with eyes and skin.
Respiratory protection	Breathing apparatus in the event of high concentrations. 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	Liquid
Color	white
Odor	odorless
Odor threshold	No information available.
pH-value	2.5 - 4.5
pH-value [1%]	No information available.
Boiling point [°C]	No information available.
Flash point [°C]	> 65 °C / >149 °F
Flammability [°C]	No information available.
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Oxidizing properties	No
Vapor pressure/gas pressure [kPa]	No information available.
Density [g/cm³]	ca. 1.23
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.

Mirka Ltd
66850 Jeppo

Date printed 20.12.2022, Revision 19.12.2022

Version 04. Supersedes version: 03

Page 6 / 14

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.

10.6 Hazardous decomposition products

No decomposition if used and stored according to specifications.

Mirka Ltd
66850 Jeppo

Date printed 20.12.2022, Revision 19.12.2022

Version 04. Supersedes version: 03

Page 7 / 14

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity

Product
ATE-mix, oral, > 5000 mg/kg
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
Distillates (petroleum), hydrotreated light, CAS: 64742-47-8
LD50, oral, Rat, > 5000 mg/kg
Terpineol, CAS: 8000-41-7
LD50, oral, Rat, > 5000 mg/kg

Acute dermal toxicity

Product
ATE-mix, dermal, > 5000 mg/kg
Substance
White mineral oil (petroleum), CAS: 8042-47-5
LD50, dermal, Rabbit, > 2000 mg/kg
Distillates (petroleum), hydrotreated light, CAS: 64742-47-8
LD50, dermal, Rabbit, > 5000 mg/kg
Terpineol, CAS: 8000-41-7
LD50, dermal, Rat, > 5000 mg/kg

Acute inhalational toxicity

Product
Based on the information available, the classification criteria have not been fulfilled.
Substance
Aluminium oxide, CAS: 1344-28-1
LC50, inhalative, Rat, > 5 mg/m ³
White mineral oil (petroleum), CAS: 8042-47-5
LC50, inhalative, Rat, 5 mg/L/4h
Distillates (petroleum), hydrotreated light, CAS: 64742-47-8
LC50, inhalative, Rat, > 5000 mg/m ³

Serious eye damage/irritation

Based on the information available, the classification criteria have not been fulfilled.

Substance
Aluminium oxide, CAS: 1344-28-1
no adverse effect observed
White mineral oil (petroleum), CAS: 8042-47-5
no adverse effect observed

Mirka Ltd
66850 Jeppo

Date printed 20.12.2022, Revision 19.12.2022

Version 04. Supersedes version: 03

Page 8 / 14

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

Substance
Aluminium oxide, CAS: 1344-28-1
no adverse effect observed
White mineral oil (petroleum), CAS: 8042-47-5
no adverse effect observed

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

Substance
Aluminium oxide, CAS: 1344-28-1
inhalative, no adverse effect observed

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

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

Substance
Aluminium oxide, CAS: 1344-28-1
no adverse effect observed

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

Substance
Aluminium oxide, CAS: 1344-28-1
NOAEC, inhalative, Rat, 75 mg/m ³ , 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 information available, the classification criteria have not been fulfilled.

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

Toxicological data of complete product are not available.

Mirka Ltd
66850 Jeppo

Date printed 20.12.2022, Revision 19.12.2022

Version 04. Supersedes version: 03

Page 9 / 14

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

12.2 Persistence and degradability

Behaviour in environment compartments	No information available.
Behaviour in sewage plant	No information available.
Biological degradability	CAS 64742-47-8: 80%. 28d CAS 8042-47-5: The product is not readily biodegradable. CAS 8000-41-7: 80%. 28d (OECD 310)

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

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 or into the drainage.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Dispose of as hazardous waste.
Coordinate disposal with the 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.

Mirka Ltd
66850 Jeppo

Date printed 20.12.2022, Revision 19.12.2022

Version 04. Supersedes version: 03

Page 10 / 14

SECTION 14: Transport

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

DOT Road Shipment Information (49 CFR) NA1993

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"

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)

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

DOT Road Shipment Information (49 CFR) Comb liq

Mirka Ltd
66850 Jeppo

Date printed 20.12.2022, Revision 19.12.2022

Version 04. Supersedes version: 03

Page 11 / 14

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

DOT Road Shipment Information (49 CFR) III

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

DOT Road Shipment Information (49 CFR) 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.

Mirka Ltd
66850 Jeppo

Date printed 20.12.2022, Revision 19.12.2022

Version 04. Supersedes version: 03

Page 12 / 14

SECTION 15: Regulatory information

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

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

Flammable (liquids)

- SARA, 313

Aluminum oxide

- CA Proposition 65

No chemical substances in this material are named on the California P65 list.

- TSCA

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

- FDA

No information available.

American Conference of Governmental Industrial Hygienists - ACGIH

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

International Agency for Research on Cancer IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

National Toxicology Program - NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

HAP-VOC

VOC-content: ca. 16.8 %

Transport-regulations

DOT-Classification, ADR (2021); IMDG-Code (2021, 40. Amdt.); IATA-DGR (2022)

15.2 Chemical safety assessment

Not applicable

Mirka Ltd
66850 Jeppo

Date printed 20.12.2022, Revision 19.12.2022

Version 04. Supersedes version: 03

Page 13 / 14

SECTION 16: Other information

16.1 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;

16.2 Ratings

Mirka Ltd
66850 Jeppo

Date printed 20.12.2022, Revision 19.12.2022

Version 04. Supersedes version: 03

Page 14 / 14

NFPA Ratings



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

HMIS Ratings

HEALTH	1
FLAMMABILITY	2
PHYSICAL HAZARD	0
PERSONAL PROTECTION	X

1 - Slight Hazard
2 - Moderate Hazard
0 - Minimal Hazard
X - Personal protection rating to be supplied by user depending on use conditions

PERSONAL PROTECTION:

- A - Safety Glasses
- B - Safety Glasses and Gloves
- C - Safety Glasses, Gloves and Protection Apron
- D - Face Shield, Gloves and Protection Apron
- E - Safety Glasses, Gloves and Dust Respirator
- F - Safety Glasses, Gloves, Protection Apron and Dust Respirator
- G - Safety Glasses, Gloves and Vapor Respirator.
- H - Splash Goggles, Gloves, Protection Apron and Vapor Respirator.
- I - Safety Glasses, Gloves, Dust Respirator and Vapor Respirator.
- J - Splash Goggles, Gloves, Protection Apron, Dust Respirator and Vapor Respirator.
- K - Airline Mask or Hood, Gloves, Full Suit and Boots.
- X - Personal protection rating to be supplied by user depending on use conditions

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

SECTION 2 been added: Contains no ingredients with endocrine-disrupting properties ($\geq 0,1\%$).

SECTION 3 deleted: For full text of H-statements: see SECTION 16.

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

SECTION 12 been added: Spillages may penetrate the soil causing ground water contamination.

SECTION 13 been added: Disposal of this product must comply with the requirements of state and local disposal regulations.

SECTION 13 been added: There are no product-specific restrictions. However, state and local disposal regulations may apply.

SECTION 13 deleted: There are no product-specific restrictions, however, local council and resource consent conditions may apply, including requirements of trade waste consents.



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