

Mirka (UK) Ltd
MK4 1GA Milton Keynes

Date printed 08.12.2022, Revision 08.12.2022

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

1.1 Product identifier

Polarshine 10 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]

Eye Irrit. 2: H319 Causes serious eye irritation.

2.2 Label elements

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

Hazard pictograms



Signal word

WARNING

Hazard statements

H319 Causes serious eye irritation.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P280 Wear protective gloves / eye protection / face 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.

Special labelling

EUH066 Repeated exposure may cause skin dryness or cracking.

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2.3 Other hazards

Human health dangers	Has a degreasing effect on the skin.
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.
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
10 - < 25	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
10 - < 20	Aluminium oxide CAS: 1344-28-1, EINECS/ELINCS: 215-691-6, Reg-No.: 01-2119529248-35-XXXX
1 - < 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
1 - < 5	Glycerol CAS: 56-81-5, EINECS/ELINCS: 200-289-5
1 - < 3	Alcohols, C13 (branched), ethoxylated CAS: 69011-36-5, EINECS/ELINCS: 500-241-6 GHS/CLP: Acute Tox. 4: H302 - Eye Dam. 1: H318

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

Extinguishing media that must not be used Full water jet.

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.
Not combusted hydrocarbons.

5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.
Use self-contained breathing apparatus.

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 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.
Take off contaminated clothing and wash before reuse.
Contaminated work clothing should not be allowed out of the workplace.

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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

8.1 Control parameters

Ingredients with occupational
exposure limits to be monitored (GB)

Substance
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/m ³
Aluminium oxide
CAS: 1344-28-1, EINECS/ELINCS: 215-691-6, Reg-No.: 01-2119529248-35-XXXX
Long-term exposure: 10 mg/m ³ , inhalable dust (respirable dust: 4 mg/m ³)
Glycerol
CAS: 56-81-5, EINECS/ELINCS: 200-289-5
Long-term exposure: 10 mg/m ³
White mineral oil (petroleum)
CAS: 8042-47-5, EINECS/ELINCS: 232-455-8, Reg-No.: 01-2119487078-27-XXXX
Long-term exposure: 5 mg/m ³ , oil mist TWA, ACGIH

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
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	Do not breathe vapour/spray. Do not inhale dust. 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.
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.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid pasty
Form	pasty
Color	white
Odor	mild
Odour threshold	No information available.
pH-value	7-8
pH-value [1%]	No information available.
Boiling point [°C]	No information available.
Flash point [°C]	> 65°C / > 149°F
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	No information available.
Density [g/cm³]	ca. 1.0
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.

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10.5 Incompatible materials

See SECTION 10.3.

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, > 5000 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)
Glycerol, CAS: 56-81-5
LD50, oral, Rat, 12600 mg/kg (IUCLID)
Alcohols, C13 (branched), ethoxylated, CAS: 69011-36-5
LD50, oral, Rat, 500 - 2000 kg/kg bw

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
Hydrocarbons, C11- C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics
LD50, dermal, Rat, >5000 mg/kg (OECD 402)
Glycerol, CAS: 56-81-5
LD50, dermal, Rabbit, > 18700 mg/kg (IUCLID)
Alcohols, C13 (branched), ethoxylated, CAS: 69011-36-5
LD50, dermal, > 2000 mg/kg

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/m ³
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/m ³ /8h (OECD 403)

Serious eye damage/irritation

Irritant
Calculation method

Substance
Aluminium oxide, CAS: 1344-28-1

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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

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

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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 available information, the classification criteria are not fulfilled.
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. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

11.2 Information on other hazards

Endocrine disrupting properties	No information available.
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
Glycerol, CAS: 56-81-5
LC50, (24h), Carassius auratus, > 5000 mg/l
EC50, (72h), Bacteria, > 10000 mg/l
EC50, (48h), Algae, > 2900 mg/l
EC50, (24h), Daphnia magna, > 10000 mg/l

12.2 Persistence and degradability

Behaviour in environment compartments	No information available.
Behaviour in sewage plant	No information available.
Biological degradability	EG 926-141-6: Biodegradable. CAS 8042-47-5: The product is not readily biodegradable. CAS 56-81-5: Biodegradable. CAS 69011-36-5: 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.

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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

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

Dispose of as hazardous waste.
Coordinate disposal with the authorities if necessary.
Dispose of contents/container in accordance with local/national regulation.

Waste no. (recommended)

120120*

Contaminated packaging

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

Waste no. (recommended)

150110* packaging containing residues of or contaminated by hazardous substances

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 not applicable

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

Marine transport in accordance with IMDG NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

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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

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 IMDG no

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 Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people.

- VOC (2010/75/CE) 23 - 24 %

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15.2 Chemical safety assessment

For this product a chemical safety assessment has not been carried out.

SECTION 16: Other information

16.1 Hazard statements (SECTION 3)

H318 Causes serious eye damage.
H302 Harmful if swallowed.
EUH066 Repeated exposure may cause skin dryness or cracking.
H304 May be fatal if swallowed and enters airways.

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

Customs Tariff 34.05.30.00

Classification procedure Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)

Modified position

SECTION 3 been added: Alcohols, C13 (branched), ethoxylated

SECTION 3 deleted: Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched

SECTION 2 been added: P102 Keep out of reach of children.

SECTION 2 been added: P101 If medical advice is needed, have product container or label at hand.

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

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