

**Polarshine 10 Polishing Compound**

Mirka Ltd  
66850 Jeppo

Date printed 08.12.2022, Revision 08.12.2022

Version 05. Supersedes version: 04

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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 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/](http://www.mirka.com/en-CA/ca/)  
E-mail [custserv.ca@mirka.com](mailto:custserv.ca@mirka.com)

**Address enquiries to**

**Technical information**

[sales@mirka.com](mailto:sales@mirka.com)

**Safety Data Sheet**

[sdb@chemiebuero.de](mailto: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.  
Eye Irrit. 2: H319 Causes serious eye irritation.

**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.  
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.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P264 Wash hands thoroughly after handling.  
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.  
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 / regional / national / international regulation.

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## 2.3 Other hazards

Human health dangers	Has a degreasing effect on the skin. Frequent persistent contact with the skin can cause skin irritation.
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	Distillates (petroleum), hydrotreated light CAS: 64742-47-8
10 - < 20	Aluminium oxide CAS: 1344-28-1
1 - < 10	White mineral oil (petroleum) CAS: 8042-47-5
1 - < 5	Glycerol CAS: 56-81-5
1 - < 3	Alcohols, C13 (branched), ethoxylated CAS: 69011-36-5

**Comment on component parts** Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%. All chemical substances in this material are included on or exempted from listing on the DSL Inventory.

## SECTION 4: First aid measures

## 4.1 Description of first aid measures

<b>General information</b>	Take off contaminated clothing and wash before reuse.
<b>Inhalation</b>	Ensure supply of fresh air.
<b>Skin contact</b>	When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists.
<b>Eye contact</b>	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.
<b>Ingestion</b>	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

<b>Suitable extinguishing media</b>	Foam, dry powder, water spray jet, carbon dioxide
<b>Extinguishing media that must not be used</b>	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.  
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.

### 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 (CA)**

Substance
Distillates (petroleum), hydrotreated light
CAS: 64742-47-8
Long-term exposure: 165 ppm, 1200 mg/m <sup>3</sup> , Vapor, Total Hydrocarbons, RCP-TWA (manufacturer)
Aluminium oxide
CAS: 1344-28-1
Long-term exposure: 10 mg/m <sup>3</sup>
White mineral oil (petroleum)
CAS: 8042-47-5
Long-term exposure: 5 mg/m <sup>3</sup> , Mineral oil (CAS 8012-95-1)

**DNEL**

Substance
Aluminium oxide, CAS: 1344-28-1
Industrial, inhalative (dust), Long-term - systemic effects, 15.63 mg/m <sup>3</sup> (AF=3)
Industrial, inhalative (dust), Long-term - local effects, 15.63 mg/m <sup>3</sup> (AF=3)
general population, oral, Long-term - systemic effects, 6.58 mg/m <sup>3</sup> (AF=20)
White mineral oil (petroleum), CAS: 8042-47-5
Industrial, inhalative, Long-term - systemic effects, 164.56 mg/m <sup>3</sup>
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 <sup>3</sup>

**PNEC**

Substance
Aluminium oxide, CAS: 1344-28-1
There are no PNEC values established for the substance.

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## 8.2 Exposure controls

<b>Additional advice on system design</b>	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.
<b>Eye protection</b>	Safety glasses. (EN 166:2001)
<b>Hand protection</b>	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).
<b>Skin protection</b>	Protective clothing (EN 340)
<b>Other</b>	Do not inhale gases/vapours/aerosols. 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.
<b>Respiratory protection</b>	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)
<b>Thermal hazards</b>	No information available.
<b>Delimitation and monitoring of the environmental exposition</b>	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**

<b>Physical state</b>	Liquid pasty
<b>Form</b>	pasty
<b>Color</b>	white
<b>Odor</b>	mild
<b>Odour threshold</b>	No information available.
<b>pH-value</b>	7-8
<b>pH-value [1%]</b>	No information available.
<b>Boiling point [°C]</b>	No information available.
<b>Flash point [°C]</b>	> 65°C / > 149°F
<b>Flammability (solid, gas) [°C]</b>	not applicable
<b>Lower explosion limit</b>	No information available.
<b>Upper explosion limit</b>	No information available.
<b>Oxidizing properties</b>	no
<b>Vapour pressure/gas pressure [kPa]</b>	No information available.
<b>Density [g/cm³]</b>	ca. 1.0
<b>Relative density</b>	No information available.
<b>Bulk density [kg/m³]</b>	not applicable
<b>Solubility in water</b>	miscible
<b>Solubility other solvents</b>	No information available.
<b>Partition coefficient [n-octanol/water]</b>	not applicable
<b>Kinematic viscosity</b>	>20.5 mm²/s (40°C/ 104°F)
<b>Relative vapour density</b>	No information available.
<b>Evaporation speed</b>	No information available.
<b>Melting point [°C]</b>	No information available.
<b>Auto-ignition temperature</b>	No information available.
<b>Decomposition temperature [°C]</b>	No information available.
<b>Particle characteristics</b>	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 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
Glycerol, CAS: 56-81-5
LD50, oral, Rat, 12600 mg/kg (IUCLID)
Distillates (petroleum), hydrotreated light, CAS: 64742-47-8
LD50, oral, Rat, > 5000 mg/kg bw
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
Glycerol, CAS: 56-81-5
LD50, dermal, Rabbit, > 18700 mg/kg (IUCLID)
Distillates (petroleum), hydrotreated light, CAS: 64742-47-8
LD50, dermal, Rabbit, > 5000 mg/kg bw
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 <sup>3</sup>
White mineral oil (petroleum), CAS: 8042-47-5
LC50, inhalative, Rat, 5 mg/L/4h
Distillates (petroleum), hydrotreated light, CAS: 64742-47-8
LC50, inhalativ (vapour ), Rat, > 5000 mg/m <sup>3</sup>

**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

**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

**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

**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/m <sup>3</sup> , 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.

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**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.  
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 manufact

**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
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
Distillates (petroleum), hydrotreated light, CAS: 64742-47-8
EL0, (48h), Daphnia magna, 1000 mg/l
EL0, (72h), Pseudokirchneriella subcapitata, 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** CAS 64742-7-8 - Biodegradable.  
CAS 8042-47-5 - The product is not readily biodegradable.  
CAS 56-81-5 - Biodegradable.  
CAS 69011-36-5 - Biodegradable.  
CAS 1344-28-1 - The methods for determining the biological degradability are not applicable to inorganic substances.

**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**

No information available.

**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 national and local regulations.

**Product**

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

**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"

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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

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

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**SECTION 15: Regulatory information**

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

<b>TRANSPORT-REGULATIONS</b>	TDG-Regulations; ADR (2021); IMDG-Code (2021, 40. Amdt.); IATA-DGR (2022)
<b>NATIONAL REGULATIONS (CA):</b>	HPR-Hazardous Products Regulations (SOR/2015-17); WHMIS 2015;
- Observe employment restrictions for people	Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people.
- VOC - Volatile Organic Compounds	23 - 24 %

**15.2 Chemical safety assessment**

For this product a chemical safety assessment has not been 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**

<b>Customs Tariff</b>	34.05.30.00
<b>Classification procedure</b>	Flam. Liq. 4: H227 Combustible Liquid. (Expert judgement) Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)

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**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 5 been added: Collect contaminated firefighting water separately, must not be discharged into the drains.

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

SECTION 13 been added: Dispose of contents/container in accordance with local/national regulation.

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