

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

· 1.1 Product identifier

· Trade name: **RENOLIT ALKORPLUS - POLIQUID - Catalyst**

· Article number: 81801-001

· 1.2 Relevant identified uses of the substance or mixture and uses advised against See Section 16

· Application of the substance / the mixture Hardening agent/ Curing agent

· 1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

RENOLIT Belgium NV
Industriepark De Bruwaan 43
B – 9700 OUDENAARDE
Tel: +32 55 33 97 11
Fax: +32 55 31 86 58
Internet: renolit.belgium@renolit.com / dirk.vandersype@renolit.com

· Emergency telephone number:

+44 (0)1235 239 670 (24 h/ 7 days)

* SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Org. Perox. CD H242 Heating may cause a fire.



GHS08 health hazard

Repr. 2 H361f Suspected of damaging fertility.



GHS09 environment

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

· 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

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· **Hazard pictograms**



GHS02 GHS07 GHS08 GHS09

· **Signal word** Danger

· **Hazard-determining components of labelling:**

dicyclohexyl phthalate
dibenzoyl peroxide

· **Hazard statements**

H242 Heating may cause a fire.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H361f Suspected of damaging fertility.
H410 Very toxic to aquatic life with long lasting effects.

· **Precautionary statements**

P210 Keep away from heat/ sparks/ open flames/ hot surfaces. - No smoking.
P220 Keep away from oxidising and acidic substances, as well as heavy metal compounds.
P280 Wear ear protective clothing / 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.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Does not meet the PBT-criteria of Annex XIII of REACH (self assessment).
· **vPvB:** Does not meet the vPvB-criteria of Annex XIII of REACH (self assessment).

SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 94-36-0 EINECS: 202-327-6 Reg.nr.: 01-2119511472-50	dibenzoyl peroxide Org. Perox. B, H241; Aquatic Acute 1, H400; Eye Irrit. 2, H319; Skin Sens. 1, H317	25-50%
CAS: 84-61-7 EINECS: 201-545-9 Reg.nr.: 01-2119978223-34-0001	dicyclohexyl phthalate Repr. 2, H361f; Skin Sens. 1, H317; Aquatic Chronic 3, H412	25-50%

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

4.1 Description of first aid measures

· **General information:**

Immediately remove any clothing soiled by the product.
Take affected persons out of danger area and lay down.
Involve doctor immediately.

· **After inhalation:**

In case of unconsciousness place patient stably in side position for transportation.
Take affected persons into fresh air and keep quiet.

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Seek medical treatment.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
Remove contaminated clothing immediately.

· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

· **After swallowing:** Do not induce vomiting; call for medical help immediately.

· **4.2 Most important symptoms and effects, both acute and delayed**

Skin sensitization.

Irritant to skin, eyes and respiratory system.

· **Information for doctor:**

For people with pre-existing skin, respiratory and / or central nervous system diseases have an increased risk for exposure to this material could be.

· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

· **5.1 Extinguishing media**

· **Suitable extinguishing agents:**

CO₂, sand, extinguishing powder, foam.

Water spray

· **For safety reasons unsuitable extinguishing agents:**

Halone

Water with full jet

· **5.2 Special hazards arising from the substance or mixture**

Can form explosive gas-air mixtures.

Under certain fire conditions, traces of other toxic gases cannot be excluded.

Carbon monoxide (CO)

CO₂

Benzoic acid, benzene

· **5.3 Advice for firefighters**

· **Protective equipment:**

Do not inhale explosion gases or combustion gases.

Wear fully protective suit.

Wear self-contained respiratory protective device.

· **Additional information**

Cool endangered receptacles with water spray.

Evacuate all non-essential persons. Extinguish a small fire with powder or carbon dioxide then apply water to prevent re-ignition.

· **6.1 Personal precautions, protective equipment and emergency procedures**

Do not breathe dust.



Keep away from ignition sources.

Avoid static electricity.

Cool case of further temperature with a jet of water from a safe distance.

Use respiratory protective device against the effects of fumes/dust/aerosol.

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Wear protective equipment. Keep unprotected persons away.

· **6.2 Environmental precautions:**

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

· **6.3 Methods and material for containment and cleaning up:**

Do not flush with water or aqueous cleansing agents

Ensure adequate ventilation.

Send for recovery or disposal in suitable receptacles.

First of all dampened with water.

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

* SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

Do not refill residue into storage receptacles.

Keep receptacles tightly sealed.

Store in cool, dry place in tightly closed receptacles.

Keep away from heat and direct sunlight.

Wear suitable respiratory protective device when decanting larger quantities without extractor facilities.

Restrict the quantity stored at the work place.

Handle with care. Avoid jolting, friction and impact.

Ensure good ventilation/exhaustion at the workplace.

at least 7 air changes

· **Information about fire - and explosion protection:**

Highly volatile, flammable constituents are released during processing.

Keep ignition sources away - Do not smoke.

Use explosion-proof apparatus / fittings and spark-proof tools.

Dust can combine with air to form an explosive mixture.

Substance/product is oxidising when dry.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Store only in the original receptacle.

Prevent any seepage into the ground.

Use only receptacles specifically permitted for this substance/product.

Store in accordance with local and national regulations.

Store in a cool location.

· **Information about storage in one common storage facility:**

Organic peroxides shall not be parked or stored together with heavy metal compounds or amines or their preparations.

· **Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles.

Store receptacle in a well ventilated area.

Protect from contamination.

Store in a cool place.

Keep container tightly sealed.

· **7.3 Specific end use(s)** For maximum quality store below : +25 °C

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SECTION 8: Exposure controls/personal protection

· **Additional information about design of technical facilities:** No further data; see item 7.

· 8.1 Control parameters

· **Ingredients with limit values that require monitoring at the workplace:**

94-36-0 dibenzoyl peroxide (25-50%)

WEL (Great Britain)	Long-term value: 5 mg/m ³
MAK (Switzerland)	Short-term value: 5 e mg/m ³ Long-term value: 5 e mg/m ³

84-61-7 dicyclohexyl phthalate (25-50%)

WEL (Great Britain)	Long-term value: 5 mg/m ³
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· **DNELs**

94-36-0 dibenzoyl peroxide

Oral	DNEL (population)	1.65 mg/kg bw/day (population)
Dermal	DNEL	11.75 mg/m ³ (Employee / Industrial / Commercial) 6.6 mg/kg bw/day (Employee / Industrial / Commercial) 2.9 mg/m ³ (population) 3.3 mg/kg bw/day (population)

84-61-7 dicyclohexyl phthalate

Oral	DNEL (population)	0.25 mg/kg bw/day (population) Long-term oral systemic
Dermal	DNEL	0.25 mg/kg bw/Tag (population) Long-term systemic skin
	DNEL (worker)	0.5 mg/kg bw/day (Employee / Industrial / Commercial) acute systemic
Inhalative	DNEL (population)	0.87 mg/m ³ (population) Long-term inhalation systemic
	DNEL (worker)	35.2 mg/m ³ (Employee / Industrial / Commercial) acute systemic

· **PNECs**

94-36-0 dibenzoyl peroxide

Oral P	NEC oral	6.67 mg/kg (Nahrungsmittel)
	PNEC	0.0758 mg/kg (ground) 0.35 mg/l (sewage plant) 0.338 mg/kg (sediment) (Süßwasser) 0.000602 mg/l (seawater) 0.000602 mg/l (freshwater)

84-61-7 dicyclohexyl phthalate

Oral P	NEC oral	133 mg/kg (Nahrungsmittel)
	PNEC	0.21 mg/kg (ground) 10 mg/l (sewage plant) 1.06 mg/kg (sediment) (Süßwasser) 0.000362 mg/l (seawater) 0.00362 mg/l (freshwater)

· **Additional information:** The lists valid during the making were used as basis.

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- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
 - Avoid contact with the eyes and skin.
 - Immediately remove all soiled and contaminated clothing
 - Wash hands before breaks and at the end of work.
 - Use skin protection cream for skin protection.
 - Keep away from foodstuffs, beverages and feed.
 - Avoid close or long term contact with the skin.
 - Avoid contact with the eyes.
- **Respiratory protection:**
 - Not necessary if room is well-ventilated.

The use of respiratory protective hood is recommended because not wearing time limitations apply.

- **Protection of hands:**
 - Preventive skin protection by use of skin-protecting agents is recommended.



Protective gloves

After use of gloves apply skin-cleaning agents and skin cosmetics.
Check protective gloves prior to each use for their proper condition.
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

- **Material of gloves**
 - The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
 - Protective gloves according EN 374.
 - Suitable material: nitrile.
- **Penetration time of glove material**
 - Our Recommendation is mainly on a one-time use as a short-term protection Liquid splashes. For other applications, you should contact a glove manufacturer.
 - The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:**
 - Fluorocarbon rubber (Viton)
 - Neoprene gloves
 - Butyl rubber, BR
- **For the permanent contact gloves made of the following materials are suitable:** Butyl rubber, BR
- **Not suitable are gloves made of the following materials:** Leather gloves
- **Eye protection:**



Tightly sealed goggles

EN-Standard: EN 166

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· **Body protection:**



Protective work clothing

* SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· Form:	Powder
· Colour:	White
· Odour:	Weak, characteristic
· Odour threshold:	not be determined.

· **pH-value:** Not applicable.

· **Change in condition**

· Melting point/Melting range:	Decomposes before melting.
· Boiling point/Boiling range:	Not applicable.

· **Flash point:** Not applicable.

· **Flammability (solid, gaseous):** May cause fire.

· **Ignition temperature:**

· Decomposition temperature:	55 °C (SADT)
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· **Self-igniting:** Product is not self igniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Explosion limits:**

· Lower:	Not determined.
· Upper:	Not determined.

· **Oxidising properties:** unavailable

· **Vapour pressure:** Not applicable.

· **Density at 20 °C:** 1.23 g/cm³ (EN ISO 2811-1)

· **Relative density:** Not determined.

· **Vapour density:** Not applicable.

· **Evaporation rate:** Not applicable.

· **Solubility in / Miscibility with water:**

Not miscible or difficult to mix.

· **Partition coefficient (n-octanol/water):** Not determined.

· **Viscosity:**

· Dynamic:	Not applicable.
· Kinematic:	Not applicable.

· **Solvent content:**

· Organic solvents:	0.0 %
· Water:	2.0 %
· VOC (EC)	0.00 %

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· **9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

· **10.1 Reactivity** see Section 10.2

· **10.2 Chemical stability**

· **Thermal decomposition / conditions to be avoided:**

SADT - (Self accelerating decomposition temperature) is the lowest temperature in the self-accelerating decomposition may occur in the shipping container.

A dangerous self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can be caused by thermal decomposition at or above the indicated temperature: 55 °C. Contact with non-vert räglichen substances can cause decomposition at or below the SADT 55 °C.

To avoid thermal decomposition do not overheat.

Shock, avoid friction, heat, sparks, static electricity.

· **10.3 Possibility of hazardous reactions**

Reacts with alkali, amines and strong acids.

Reacts with certain metals.

· **10.5 Incompatible materials:**

Avoid contact with rust, iron and copper. Hazardous decomposition on contact with incompatible materials such as acids, alkalis, heavy metals and reducing agents. Do not mix with peroxide accelerators. Only use stainless steel according to DIN 1.4571, PVC, polyethylene, or glass-lined equipment.

· **10.6 Hazardous decomposition products:**

Benzoessäure

Benzene

· **Additional information:**

Emergency procedures will vary depending on individual circumstances. The customer should have a contingency plan to the workplace may be present.

* SECTION 11: Toxicological information

· **11.1 Information on toxicological effects** There were no toxicological findings to the mixture.

· **Acute toxicity**

· **LD/LC50 values relevant for classification:**

94-36-0 dibenzoyl peroxide

Oral	LD50	> 5000 mg/kg (rat)
Inhalative	LC50	> 24300 mg/l (rat) (Staub)
	LC50/4h	> 24300 mg/l (rat) (Staub)

84-61-7 dicyclohexyl phthalate

Oral	LD50	>5000 mg/kg (rat)
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· **Primary irritant effect:**

· **Skin corrosion/irritation** very mild irritant

· **Serious eye damage/irritation**

Causes serious eye irritation.

· **Respiratory or skin sensitisation**

May cause an allergic skin reaction.

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· Subacute to chronic toxicity:		
94-36-0 dibenzoyl peroxide		
Oral	NO AEL	500 mg/kg/d (unknown) Concentration at which no adverse effect was observed.
	NOAEL/29d	1000 mg/kg/d (unknown) Concentration at which no adverse effect was observed.
84-61-7 dicyclohexyl phthalate		
Oral	NO AEL	50 mg/kg/d (rat) (subchronische orale Toxizität (90d)) Concentration at which no adverse effect was observed.
		Developmental Toxicity: concentration at which no adverse effect was observed, 250 mg / kg / day (oral) (rat)
		Fertility: concentration at which no adverse effect was observed, 16-21 mg / kg / day (oral) (rat)

· **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

- Repr. 2
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity**
Suspected of damaging fertility.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

* **SECTION 12: Ecological information**

· **12.1 Toxicity**

· **Aquatic toxicity:**

94-36-0 dibenzoyl peroxide	
EC50	35 mg/l (bacteria) (Atmungsinhibierungstest für Belebtschlamm)
EC50/48h	0.11 mg/l (daphnia magna)
EC50/72h	0.06 mg/l (alga)
LC50/96h	0.06 mg/l (fish)
84-61-7 dicyclohexyl phthalate	
EC50/48h	> 2 mg/l (daphnia magna) max. attainable concentration
LC50/96h	> 2 mg/l (Oryzias latipes) max. attainable concentration
NOEL	> 100 mg/l (bacteria) Activated sludge; 3h-Untere Wirkungsschwelle

- **12.2 Persistence and degradability** No further relevant information available.
- **Other information:** No ecological data available
- **12.3 Bioaccumulative potential** Bioaccumulation is not expected.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:**
very toxic to aquatic organisms.
Very toxic for fish

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· **Remark:**

Abiotic degradation:

Half-life: 2.4 hours at 50 °C.

· **Additional ecological information:**

· **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

· **12.5 Results of PBT and vPvB assessment**

· **PBT:** Does not meet the PBT-criteria of Annex XIII of REACH (self assessment).

· **vPvB:** Does not meet the vPvB-criteria of Annex XIII of REACH (self assessment).

· **12.6 Other adverse effects** No further relevant information available.

* SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

Hazardous waste according to Waste Catalogue (EWC). If recycling is not possible, waste must be in compliance with local regulations to be removed.

· **Recommendation**

Uncured product residues are special waste.

Cured product residues are not hazardous waste.

Must be specially treated adhering to official regulations.



Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **Waste disposal key:**

The following Waste Codes of the European Waste Catalogue (EWC), are considered a recommendation. The disposal must be coordinated with the local waste disposal company.

Liquid product:

080111 * paint and varnish containing organic solvents or other dangerous substances

080199 waste nec

Cured product residues:

080112 paint and varnish wastes other than those mentioned in 080111

080410 adhesive waste adhesives and sealants other than those mentioned in 080409

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

· **14.1 UN-Number**

· **ADR, IMDG, IATA**

UN3106

· **14.2 UN proper shipping name**

· **ADR**

· **IMDG**

· **IATA**

3106 ORGANIC PEROXIDE TYPE D, SOLID
ORGANIC PEROXIDE TYPE D, SOLID, MARINE
POLLUTANT
ORGANIC PEROXIDE TYPE D, SOLID

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· **14.3 Transport hazard class(es)**

· **ADR, IATA**



· **Class** 5.2 Organic peroxides.
· **Label** 5.2

· **IMDG**



· **Class** 5.2 Organic peroxides.
· **Label** 5.2

· **14.4 Packing group**

· **ADR** Void

· **14.5 Environmental hazards:**

· **Marine pollutant:** Yes
Symbol (fish and tree)

· **14.6 Special precautions for user**

· **EMS Number:** Warning: Organic peroxides.

F-J,S-R

· **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

· **Transport/Additional information:**

· **ADR**

· **Limited quantities (LQ)** 500 g
· **Excepted quantities (EQ)** Code: E0
Not permitted as Excepted Quantity

· **Transport category** 2

· **Tunnel restriction code** D

· **IMDG**

· **Limited quantities (LQ)** 500 g
· **Excepted quantities (EQ)** Code: E0
Not permitted as Excepted Quantity

· **UN "Model Regulation":** UN 3106 ORGANIC PEROXIDE TYPE D, SOLID, 5.2

* **SECTION 15: Regulatory information**

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

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

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· **National regulations:**

· **Information about limitation of use:**

Employment restrictions under the Maternity Protection Directive (94/33/EC).

Employment restrictions for maternity Directive (92/85/EEC) for expectant and nursing mothers.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

* **SECTION 16: Other information**

These figures relate to the product as delivered.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Sector of Use

Relevant identified uses of the mixture

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU19 Building and construction work

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Uses advised against

SU21 Consumer uses: Private households / general public / consumers

· **Relevant phrases**

H241 Heating may cause a fire or explosion.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H361f Suspected of damaging fertility.

H400 Very toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

· **Training hints**

Teaching about hazards and precautions to hand the operating instructions (Technical Rule 555).

Instruction must take place before the start of employment and at least annually thereafter.

· **Department issuing MSDS:** Division product safety

· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

vPvB: very Persistent and very Bioaccumulative

Org. Perox. B: Organic Peroxides, Type B

Org. Perox. CD: Organic Peroxides, Types C, D

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Repr. 2: Reproductive toxicity, Hazard Category 2

Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1

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RENOLIT ALKORPLUS



Rely on it.

Safety data sheet according to 1907/2006/EC, Article 31

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Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

· **Sources**

www.gestis.de

www.echa.eu

logkow.cisti.nrc.ca

· * **Data compared to the previous version altered.**

GB