



Rely on it.

SAFETY DATA SHEET

Issuing Date 24-May-2013

Version 001

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

1.1 Product identifier

Product name RENOLIT ALKORPLUS 81701009

1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Cleaning agent, activator.

Uses advised against No information available

1.3 Details of the supplier of the safety data sheet

Company Information RENOLIT Belgium NV
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1.4 Emergency telephone

Emergency telephone +44 (0)1235 239 670 (24 hours, 7 days)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Asp. Tox. 1; H304
Skin Irrit. 2; H315
Eye Irrit. 2; H319
Skin Sens. 1; H317
STOT SE 3; H336
Aquatic Acute 1; H400
Aquatic Chronic 1; H410
Flam. Liq. 2; H225

Classification according to EU Directives 67/548/EEC or 1999/45/EC

F - Highly flammable
Xn - Harmful
N - Dangerous for the environment
F; R11
Xn; R65
Xi; R36/38 - R43
N; R50/53
R67

2.2 Label elements



Signal Word

Danger

Hazard Statements

H225 - Highly flammable liquid and vapor
H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H336 - May cause drowsiness or dizziness
H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
P243 - Take precautionary measures against static discharge
P273 - Avoid release to the environment
P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell
P303 + P361 + P353 - IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower
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

Vapors may form explosive mixture with air
This product contains no substance considered to be persistent, bioaccumulating nor toxic (PBT)
This product contains no substance considered to be very persistent nor very bioaccumulating (vPvB)

SECTION 3: Composition/information on ingredients**3.2 Mixtures**

Chemical Name	EC-No	CAS-No	w/w%	Classification (67/548/EEC)	Classification (EU Reg. 1272/2008)	REACH Registration Number
Butanone	201-159-0	78-93-3	40-60	F; R11 Xi; R36 R66 R67	Eye Irrit. 2 (H319) STOT SE 3 (H336) Flam. Liq. 2 (H225) (EUH066)	no data available
1-methoxypropan-2-ol	203-539-1	107-98-2	25-50	R10 R67	STOT SE 3 (H336) Flam. Liq. 3 (H226)	no data available
Orange, sweet, ext.	232-433-8	8028-48-6	25-50	R10 Xi; R38 - R43 N; R50/53 Xn; R65	Flam. Liq. 3 (H226) Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Asp. Tox. 1 (H304) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	no data available

For the full text of R-phrases and H-Statements see Section 16

SECTION 4: First aid measures**4.1 Description of first aid measures**

Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms develop obtain medical attention.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms develop obtain medical attention. Wash contaminated clothing before reuse.
INGESTION	Immediate medical attention is required. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If a person vomits when lying on their back, place them in the recovery position. Wash out mouth with water and give 100 - 200 ml of water to drink.
Inhalation	Remove patient from exposure, keep warm and at rest. If symptoms develop obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Main Symptoms	ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. Irritating to eyes and skin. May cause sensitisation by skin contact. May cause drowsiness and dizziness.
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4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable Extinguishing Media

Water spray, dry chemical, carbon dioxide (CO₂), or foam

Extinguishing media which shall not be used for safety reasons

Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Vapors may form explosive mixtures with air. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Thermal decomposition can lead to release of irritating and toxic gases and vapors.

5.3 Advice for firefighters

As in any fire, wear self-contained breathing apparatus and full protective gear. Cool containers / tanks with water spray.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Ensure adequate ventilation. Use only non-sparking tools. Take precautionary measures against static discharges. Avoid breathing vapors or mists. Avoid contact with the skin and the eyes. Wear protective gloves/clothing and eye/face protection.

6.2 Environmental precautions

Avoid release to the environment. Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and materials for containment and cleaning up

Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Sweep up carefully with non-sparking tools. Wash spill area with soapy water. Contaminated adsorbent must be removed in sealed, plastic lined drums and disposed of via an authorised waste disposal contractor.

6.4 Reference to other sections

SECTION 8: Exposure controls/personal protection. SECTION 13: Disposal considerations.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Keep away from open flames, hot surfaces and sources of ignition. Vapour may create explosive atmosphere. Ensure adequate ventilation. Take precautionary measures against static discharges. Avoid breathing vapors or mists. Avoid contact with skin and eyes. Wear personal protective equipment. For personal protection see section 8

Do not eat, drink or smoke during work. Wash thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Store separately from incompatible materials: Oxidising agents.

7.3 Specific end use(s)

Cleaning agent: activator.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Chemical Name	Butanone 78-93-3
European Union	TWA 200 ppm TWA 600 mg/m ³ STEL 300 ppm STEL 900 mg/m ³
The United Kingdom	STEL: 300 ppm STEL: 899 mg/m ³ TWA: 200 ppm TWA: 600 mg/m ³ Skin
France	TWA: 200 ppm TWA: 600 mg/m ³ STEL: 300 ppm STEL: 900 mg/m ³
Spain	STEL: 300 ppm STEL: 900 mg/m ³ TWA: 200 ppm TWA: 600 mg/m ³
Germany	TWA: 200 ppm TWA: 600 mg/m ³ Ceiling / Peak: 200 ppm Ceiling / Peak: 600 mg/m ³ Skin
Italy	TWA: 200 ppm TWA: 600 mg/m ³ STEL: 300 ppm STEL: 900 mg/m ³
Portugal	STEL: 300 ppm TWA: 200 ppm
The Netherlands	Skin STEL: 900 mg/m ³ TWA: 590 mg/m ³
Finland	STEL: 100 ppm STEL: 300 mg/m ³ Skin
Denmark	TWA: 50 ppm TWA: 145 mg/m ³ Skin
Austria	Skin STEL 200 ppm STEL 590 mg/m ³ TWA: 100 ppm TWA: 295 mg/m ³
Switzerland	Skin STEL: 200 ppm STEL: 590 mg/m ³ TWA: 200 ppm TWA: 590 mg/m ³
Poland	STEL: 900 mg/m ³ TWA: 450 mg/m ³ Skin
Norway	TWA: 75 ppm TWA: 220 mg/m ³ STEL: 112.5 ppm STEL: 275 mg/m ³
Ireland	TWA: 200 ppm TWA: 600 mg/m ³ STEL: 300 ppm STEL: 900 mg/m ³ Skin
Chemical Name	1-methoxypropan-2-ol 107-98-2

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European Union	Skin TWA 100 ppm TWA 375 mg/m ³ STEL 150 ppm STEL 568 mg/m ³
The United Kingdom	STEL: 150 ppm STEL: 560 mg/m ³ TWA: 100 ppm TWA: 375 mg/m ³ Skin
France	TWA: 50 ppm TWA: 188 mg/m ³ STEL: 100 ppm STEL: 375 mg/m ³
Spain	S* STEL: 150 ppm STEL: 568 mg/m ³ TWA: 100 ppm TWA: 375 mg/m ³
Germany	TWA: 100 ppm TWA: 370 mg/m ³ Ceiling / Peak: 200 ppm Ceiling / Peak: 740 mg/m ³
Italy	TWA: 100 ppm TWA: 375 mg/m ³ STEL: 150 ppm STEL: 568 mg/m ³ Skin
Portugal	STEL: 150 ppm TWA: 100 ppm
The Netherlands	Skin STEL: 563 mg/m ³ TWA: 375 mg/m ³
Finland	TWA: 100 ppm TWA: 370 mg/m ³ STEL: 150 ppm STEL: 560 mg/m ³ Skin
Denmark	TWA: 50 ppm TWA: 185 mg/m ³ Skin
Austria	Skin STEL 50 ppm STEL 187 mg/m ³ TWA: 50 ppm TWA: 187 mg/m ³ Ceiling 50 ppm Ceiling 187 mg/m ³
Switzerland	STEL: 200 ppm STEL: 720 mg/m ³ TWA: 100 ppm TWA: 360 mg/m ³
Poland	STEL: 360 mg/m ³ TWA: 180 mg/m ³
Norway	TWA: 50 ppm TWA: 180 mg/m ³ Skin STEL: 75 ppm STEL: 225 mg/m ³
Ireland	TWA: 100 ppm TWA: 375 mg/m ³ STEL: 150 ppm STEL: 568 mg/m ³

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) No information available

8.2 Exposure controls

Appropriate engineering controls Provide adequate ventilation, including appropriate local extraction, to ensure that occupational exposure limits are not exceeded.

Personal protective equipment

- Eye Protection** Tightly fitting safety goggles. (EN 166)
- Hand Protection** Protective gloves. (EN 374)
- Skin and body protection** Apron or other light protective clothing, boots and plastic or rubber gloves.
- Respiratory protection** In case of insufficient ventilation wear suitable respiratory equipment. Breathing apparatus with filter: Type AP2

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

Environmental Exposure Controls Avoid release to the environment. Local authorities should be advised if significant spillages cannot be contained.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Odor	Lemon
Color	Colorless
Odor Threshold	No information available

Property Values

Property Values		Remarks • Methods
pH		No information available
Melting/freezing point	-86 °C	Butanone
Freezing Point		No information available
Boiling point/boiling range	> 79 °C	
Flash Point	-2 °C	
Evaporation rate		No information available
Flammability (solid, gas)		Not applicable
Flammability Limits in Air		Butanone
upper flammability limit	12.6	
lower flammability limit	1.5	
Vapor pressure	105 mbar	@ 20 °C Butanone
Vapor density		No information available
Relative density	0.84	@ 20 °C
Water solubility		(THF) Partial
Solubility in other solvents		No information available
Partition coefficient: n-octanol/water		No information available
Auto-ignition temperature		No information available
Decomposition temperature		No information available
Viscosity, kinematic		No information available
Viscosity, dynamic		No information available

Explosive properties May form explosive mixtures with air.
Oxidizing properties Not oxidizing

9.2 Other information

No information available

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No information available.

10.4 Conditions to avoid

Extremes of temperature and direct sunlight. Ignition sources.

10.5 Incompatible materials

Oxidizing agents.

10.6 Hazardous decomposition products

May give off toxic fumes in fire. Carbon oxides.

SECTION 11: Toxicological information

Inhalation	May cause drowsiness or dizziness.
Eye contact	Irritating to eyes.
Skin contact	Irritating to skin. May cause sensitization by skin contact. Prolonged skin contact may defat the skin and produce dermatitis.
Ingestion	ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. Nausea and vomiting.

11.1 Information on toxicological effects

Acute toxicity

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Butanone	2737mg/kg (Rat)	6480 mg/kg (Rabbit)	
1-methoxypropan-2-ol	5200mg/kg (Rat)	13000 mg/kg (Rabbit)	54.6 mg/L (Rat) 4 h >24 mg/L (Rat) 1 h

Skin corrosion/irritation	Irritating to skin.
Serious eye damage/irritation	Irritating to eyes.
Respiratory or skin sensitisation	May cause sensitisation by skin contact.
Mutagenicity	Based on available data, classification criteria are not met.
Carcinogenicity	Based on available data, classification criteria are not met.
Reproductive toxicity	Not Classified Based on available data, classification criteria are not met.
STOT - Single exposure	May cause drowsiness or dizziness.
STOT - Repeated exposure	Based on available data, classification criteria are not met.
Aspiration hazard	Risk of serious damage to the lungs (by aspiration).

Other information

No information available.

SECTION 12: Ecological information**12.1 Toxicity**

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Butanone			EC50: 5091 mg/L 48 h (Daphnia magna) EC50: 4025 - 6440 mg/L 48 h Static (Daphnia magna) EC50: >520 mg/L 48 h (Daphnia magna)
1-methoxypropan-2-ol			EC50: 23300 mg/L 48 h (Daphnia magna)

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

Chemical Name	Bioconcentration factor (BCF)	log Pow
Butanone		0.29
1-methoxypropan-2-ol	<2	-0.437

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

12.6 Other adverse effects

No information available.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Waste from residues / unused products**

Do not empty into drains; dispose of this material and its container in a safe way. Dispose of as hazardous waste in compliance with local and national regulations.

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: Transport information

	ADR/RID/ADN	ICAO/IATA	IMDG / IMO
14.1 UN Number	1993	1993	1993
14.2 UN proper shipping name	FLAMMABLE LIQUID, N.O.S.	FLAMMABLE LIQUID, N.O.S.	FLAMMABLE LIQUID, N.O.S.
14.3 Transport hazard class(es)	3	3	3
14.4 Packing group	II	II	II
14.5 Environmental Hazards	Marine pollutant	Marine pollutant	Marine pollutant
14.6 Special precautions for user		May form explosive mixtures with air.	
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code		-	

SECTION 15: Regulatory information

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

This safety data sheet complies with the requirements of Regulations (EC) No. 1907/2006 and No. 453/2010

15.2 Chemical Safety Assessment

Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Full text of R-phrases referred to under sections 2 and 3

- R10 - Flammable
- R11 - Highly flammable
- R36 - Irritating to eyes
- R36/38 - Irritating to eyes and skin
- R38 - Irritating to skin
- R43 - May cause sensitization by skin contact
- R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
- R65 - Harmful: may cause lung damage if swallowed
- R66 - Repeated exposure may cause skin dryness or cracking
- R67 - Vapors may cause drowsiness and dizziness

Full text of H-Statements referred to under sections 2 and 3

- H225 - Highly flammable liquid and vapor
- H304 - May be fatal if swallowed and enters airways
- H315 - Causes skin irritation
- H317 - May cause an allergic skin reaction
- H319 - Causes serious eye irritation
- H336 - May cause drowsiness or dizziness
- H410 - Very toxic to aquatic life with long lasting effects
- H226 - Flammable liquid and vapor

Issuing Date 24-May-2013

Revision Note Not applicable.

