

RENOLIT ALKORPLUS 81064

SAFETY DATA SHEET

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH) & 1272/2008 (CLP)

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name: **RENOLIT ALKORPLUS 81064**
Product Code: **RENOLIT ALKORPLUS 81064**

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

Identified use(s): Contact adhesive, Industrial and Professional

1.3 Details of the supplier of the safety data sheet

Company Identification: RENOLIT Belgium NV
Industriepark De Bruwaan 43
B-9700 Oudenaarde
Belgium

Telephone: +32 5533 9711

Fax: +32 5531 9650

E-Mail (competent person): renolit.belgium@renolit.com

1.4 Emergency telephone number

Emergency Phone No. (24 h): +44 (0)1235 239 670 (24 hours, 7 days)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

According to Regulation (EC) No. 1272/2008 (CLP)

Flam. Liq. 2; H225

Asp. Tox. 1; H304

Skin Irrit. 2; H315

Repr. 2; H361d

STOT SE 3; H336

STOT RE 2; H373

Aquatic Acute 1; H400

Aquatic Chronic 1; H410

According to Directive 67/548/EEC & Directive 1999/45/EC
F; R11

Xn; R48/20 – R63 – R65

Xi; R38

N; R50/53

R67

2.2.1 Label elements

According to Regulation (EC) No. 1272/2008 (CLP)

Hazard pictogram(s):



Signal word(s):

Danger

Hazard statement(s):

H225: Highly flammable liquid and vapour.

H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.


H361d: Suspected of damaging the unborn child.

H336: May cause drowsiness or dizziness.

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Precautionary statement(s):	H373: May cause damage to organs through prolonged or repeated exposure: Inhalation. H410: Very toxic to aquatic life with long lasting effects. P210: Keep away from heat, sparks, open flame, hot surfaces - No smoking. P281: Use personal protective equipment as required. P301 + P310: IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician. P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Supplemental Hazard Information:	None.
2.2.2 Label elements	According to Directive 67/548/EEC & Directive 1999/45/EC
Hazard pictogram(s):	
Hazard Symbol:	Highly flammable. Harmful. Dangerous for the environment.
Risk Phrases:	R11: Highly flammable. R38: Irritating to skin. R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation. R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R63: Possible risk of harm to the unborn child. R65: Harmful: may cause lung damage if swallowed. R67: Vapours may cause drowsiness and dizziness.
Safety Phrases:	S16: Keep away from sources of ignition - No smoking. S23: Do not breathe vapour. S33: Take precautionary measures against static discharges. S36/37: Wear suitable protective clothing and gloves. S61: Avoid release to the environment. Refer to special instructions/Safety Data Sheets. S62: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
2.3 Other hazards	Vapour may create explosive atmosphere. The vapour is heavier than air; beware of pits and confined spaces. May cause irritation to eyes and air passages.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

EC Classification No. 1272/2008

Hazardous ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard symbol(s) and hazard statement(s)
Toluene	5-15	108-88-3	203-625-9	-	H225, H361d, H304, H373, H315, H336
Naphtha (petroleum), hydrotreated light	15-25	64742-49-0	265-151-9	-	H225, H315, H304, H336, H411
Cyclohexane	20-30	110-82-7	203-806-2	-	H225, H315, H304, H336, H400, R410

EC Classification No. 67/548/EC

Hazardous ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No.	Risk Phrases and Safety Phrases
Toluene	5-15	108-88-3	203-625-9	-	R11, R38, R48/20, R63, R65, R67
Naphtha (petroleum), hydrotreated light	15-25	64742-49-0	265-151-9	-	R11, R38, R51/53, R65, R67
Cyclohexane	20-30	110-82-7	203-806-2	-	R11, R38, R50/53, R65, R67

4. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation:

Remove patient from exposure, keep warm and at rest. If symptoms persist, obtain medical attention.

Skin Contact:

Remove contaminated clothing immediately and drench affected skin with plenty of water, then wash with soap and water. If symptoms persist, obtain medical attention. Contaminated clothing should be thoroughly cleaned.

Eye Contact:

If substance has got into the eyes, immediately wash out with plenty of water for at least 15 minutes. Obtain medical attention.

Ingestion:

Obtain immediate medical attention. Do not induce vomiting. Provided the patient is conscious, wash out mouth with water and give 200-300 ml (half a pint) of water to drink.

4.2 Most important symptoms and effects, both acute and delayed

Aspiration into the lungs may cause chemical pneumonitis, which can be fatal. Irritating to skin. May cause irritation to eyes and air passages. Vapours may cause drowsiness and dizziness.

4.3 Indication of the immediate medical attention and special treatment needed

Have available eyewash bottle with clean water. If breathing is laboured, oxygen should be administered by qualified personnel.

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5. FIRE-FIGHTING MEASURES

- 5.1 Extinguishing media**
Suitable Extinguishing Media: Water spray, foam, dry powder or CO₂.
Unsuitable Extinguishing Media: None.
- 5.2 Special hazards arising from the substance or mixture**
Vapour may create explosive atmosphere. The vapour is heavier than air; beware of pits and confined spaces.

May give off toxic fumes in a fire. Carbon monoxide, Carbon dioxide, aldehydes and Hydrocarbons.
- 5.3 Advice for fire-fighters**
A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions. Keep fire exposed containers cool by spraying with water.

Flash Point (°C): -26
Flammable Limits (Lower) (%v/v): 1.1
Flammable Limits (Upper) (%v/v): 7.4
Auto Ignition Temperature (°C): > 200

6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures**
Eliminate sources of ignition. Vapour may create explosive atmosphere. The vapour is heavier than air; beware of pits and confined spaces. Ensure adequate ventilation. Use non-sparking hand tools and explosion proof electrical equipment. Take precautionary measures against static discharges.

Avoid inhalation of vapours. Avoid contact with skin and eyes. Wear suitable protective clothing and gloves. (See Section: 8). Contaminated clothing should be thoroughly cleaned.
- 6.2 Environmental precautions**
Avoid release to the environment. Do not allow to enter drains, sewers or watercourses. Spillages or uncontrolled discharges into watercourses must be alerted to the Environment Agency or other appropriate regulatory body.
- 6.3 Methods and material for containment and cleaning up**
Adsorb spillages onto sand, earth or any suitable adsorbent material. Sweep up carefully with non-sparking tools. Transfer to a container for disposal. 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**
Personal Protection: See Section: 8.
- Other advice**
None.

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7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Eliminate sources of ignition. Vapour may create explosive atmosphere. The vapour is heavier than air; beware of pits and confined spaces. Provide adequate ventilation, including appropriate local extraction, to ensure that the occupational exposure limit is not exceeded. Use non-sparking hand tools and explosion proof electrical equipment. Take precautionary measures against static discharges.

Avoid inhalation of vapours. Avoid contact with skin and eyes. Wear suitable protective clothing and gloves. (See Section: 8).

Do not eat, drink or smoke at the work place. Wash hands and exposed skin after use. Contaminated clothing should be thoroughly cleaned.

7.2 Conditions for safe storage, including any incompatibilities

Keep away from heat and sources of ignition. Keep from direct sunlight. Keep away from frost. Keep only in the original container in a cool, well-ventilated place.

Storage temperature (°C): 10-20

Storage Life: 12 Month(s).

Suitable containers: Stainless steel, Aluminium and Steel (drums).

7.3 Specific end use(s)

Contact adhesive, Industrial and Professional

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

EH40 – UK Occupational Exposure Limits

SUBSTANCE.	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note:
Toluene	108-88-3	50	191	100	384	Sk (EH40)
		50	192	100	384	2006/15/EC
Cyclohexane	110-82-7	100	350	300	1050	(EH40)
		200	700	-	-	2006/15/EC

Sk - Can be absorbed through skin.

Toluene:

France: 50 ppm, 192 mg/m³ (VME) ; 100 ppm, 384 mg/m³ (VLCT, ou VLE)

Spain : 50 ppm, 192 mg/m³ (VLA-ED) ; 100 ppm, 384 mg/m³ (VLA-EC) – vía dérmica, VLB, VLI

Germany: 1.0 mg/l (BGW)

USA: TWA = 50 ppm

Cyclohexane:

France: 200 ppm, 700 mg/m³ (VME) ; 375 ppm, 1300 mg/m³ (VLCT, ou VLE)

Spain : 200 ppm, 700 mg/m³ (VLA-ED)– VLI

Germany: 170 mg/g (BGW)

USA: TWA = 100 ppm

Gasoline (benzene < 0.1 %)

USA: TWA = 300 ppm, STEL = 500 ppm

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8.2 Exposure controls

8.2.1 Appropriate engineering controls

Provide adequate ventilation, including appropriate local extraction, to ensure that the occupational exposure limit is not exceeded.

8.2.2 Personal Protection

Eye/face protection

Goggles giving complete protection to eyes. (EN 166)



Skin protection

Protective gloves. (EN 374)



Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. (BS EN 14387:2004+A1)



Other:

Apron or other light protective clothing, boots and plastic or rubber gloves.

8.2.3 Environmental Exposure Controls

Avoid release to the environment.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Liquid.
Colour:	Bluish.
Odour:	Characteristic.
Boiling Point (°C):	60-100
Flash Point (°C):	-26
Flammable Limits (Lower) (%v/v):	1.1
Flammable Limits (Upper) (%v/v):	7.4
Auto Ignition Temperature (°C):	>200
Vapour Pressure (Pascal):	16000
Vapour Density (Air=1):	>1
Specific Gravity:	0.85
Solubility (Water):	Immiscible.

9.2 Other information

None.

10. STABILITY AND REACTIVITY

10.1 Reactivity

No information available.

10.2 Chemical stability

Stable under normal conditions. May form explosive peroxides.

10.3 Possibility of hazardous reactions

No information available.

10.4 Conditions to avoid

Keep away from heat, sources of ignition and direct sunlight.

10.5 Incompatible materials

Oxidising agents. Acids. Alcohols.

10.6 Hazardous Decomposition Product(s)

May give off toxic fumes in a fire. Carbon monoxide, Carbon

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dioxide, aldehydes and Hydrocarbons.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:

Ingestion:	LD ₅₀ (oral/rat): >2000 mg/kg (Dearomatised petrol) LD ₅₀ (oral/rat): >2000 mg/kg (cyclohexane) LD ₅₀ (oral/rat): >5000 mg/kg (Toluene)
Inhalation:	LD ₅₀ (inhalation/rat): 14 mg/l/ 4h (cyclohexane) LC ₅₀ (inhalation/rat): 28.1 mg/l/4h
Skin Contact:	LD ₅₀ (dermal/rabbit):>2000 mg/kg (Dearomatised petrol) LD ₅₀ (dermal/rabbit):>18000 mg/kg (cyclohexane) LD ₅₀ (dermal/rabbit): > 5000mg/kg (Toluene)
Eye Contact:	No information available.
skin corrosion/irritation:	Irritating to skin.
Serious eye damage/irritation:	May cause eye irritation.
respiratory or skin sensitization:	No information available.
Mutagenicity:	No information available.
Carcinogenicity:	No information available.
Reproductive toxicity:	Suspected of damaging the unborn child.
STOT-single exposure:	Vapours may cause drowsiness and dizziness.
STOT-repeated exposure:	May cause damage to organs through prolonged or repeated exposure: Inhalation
Aspiration hazard:	Aspiration into the lungs may cause chemical pneumonitis, which can be fatal.
Other information:	No information available.

12. ECOLOGICAL INFORMATION

12.1 Toxicity	LC ₅₀ (Fish): 1-10 mg/l - 96h (Dearomatised petrol) LC ₅₀ (Fathead minnow (Pimephales promelas)):4,53 mg/l -96h (cyclohexane) EC ₅₀ (Daphnia magna):3.78 mg/l/48h (Toluene) Bioconcentration factor (BCF) :89 (cyclohexane) WGK: 1(Dearomatised petrol) WGK: 2 (cyclohexane) (Toluene) ThOD: 3.42 gO ₂ /g (cyclohexane)
12.2 Persistence and degradability	Not readily biodegradable.
12.3 Bioaccumulative potential	No information available.
12.4 Mobility in soil	No information available.
12.5 Results of PBT and vPvB assessment	half-life> 60 days - Fresh water (Toluene) half-life> 60 days -Soil (Toluene)
12.6 Other adverse effects	No information available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods	Do not empty into drains; dispose of this material and its container in a safe way. To be disposed of as hazardous waste. Disposal should be in accordance with local, state or national legislation.
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14. TRANSPORT INFORMATION

14.1	UN number	1133
14.2	Proper Shipping Name	Adhesives.
14.3	Transport hazard class(es)	3
14.4	Packing Group	II
14.5	Environmental hazards	Marine Pollutant.
14.6	Special precautions for user	Highly flammable. Vapour may create explosive atmosphere. The vapour is heavier than air; beware of pits and confined spaces.
14.7	Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.

15. REGULATORY INFORMATION

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture	This Safety Data Sheet was prepared in accordance with EC Regulation (EC) No. 1907/2006., Regulation (EC) No. 1272/2008 (CLP), Directive 67/548/EEC & Directive 1999/45/EC.
15.1	Chemical Safety Assessment	-

16. OTHER INFORMATION

Full text of Hazard statements and Risk phrases for pure substances listed in section 3.

Hazard Symbol:	H225: Highly flammable liquid and vapour. H304: May be fatal if swallowed and enters airways. H315: Causes skin irritation. H336: May cause drowsiness or dizziness. H373: May cause damage to organs through prolonged or repeated exposure: Inhalation. H361d: Suspected of damaging the unborn child. H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long lasting effects. H411: Toxic to aquatic life with long lasting effects.
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Risk Phrases:	R11: Highly flammable. R38: Irritating to skin. R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation. R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R63: Possible risk of harm to the unborn child. R65: Harmful: may cause lung damage if swallowed. R67: Vapours may cause drowsiness and dizziness.
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The following sections contain revisions or new statements: 1-16.

Abbreviations:

CAS = Chemical Abstracts Service;

CNS = Central Nervous System;

EINECS = European Inventory of Existing Commercial Chemical Substances;

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EC50 = Effective Concentration 50%;

IARC = International Agency for Research on Cancer;

IC50 = Inhibitory Concentration 50%;

LC50 = Lethal Concentration 50%;

LD50 = Lethal Dose 50%;

LTEL = Long Term Exposure Limit;

STEL = Short Term Exposure Limit;

TWA = Time Weighted Average;

EH40 = UK Occupational Exposure Limits

VLA-ED = Exposure limit value- Daily exposure (Valor Límite Ambiental-Exposición Diaria)

VLB = Biological Limit Values (Valores Límite Biológicos)

VLI= Indicative limit values

BGW= The biological limit

ThOD= theoretical oxygen demand

References:

IUCLID Chemical Data Sheets, IUCLID Export Files, OECD-IUCLID Export Files, EUSES Export Files,