

RENOLIT ALKORPLUS 81040

SAFETY DATA SHEET

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

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name: RENOLIT ALKORPLUS
Product Code: RENOLIT ALKORPLUS 81040

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

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

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)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture According to Regulation (EC) No. 1272/2008 (CLP)

Flam. Liq. 2; H225 Eye Irrit. 2; H319 Repr. 2; H361d STOT SE 3; H336

EUH066

According to Directive 67/548/EEC & Directive 1999/45/EC

F; R11 **Xi**; R36

Repr. Cat. 3; R63

R66, R67

2.2 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.

H319: Causes serious eye irritation. H336: May cause drowsiness or dizziness. H361d: Suspected of damaging the unborn child.

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Precautionary statement(s): P210: Keep away from heat, sparks, open flame, hot surfaces -

No smoking.

P280: Wear protective gloves/protective clothing/e ye

protection/face protection.

P243: Take precautionary measures against static discharge. P303 + P361 + P353: IF ON SKIN (or hair $\,$): Re move/Take off immediately all contaminated $\,$ clothing. Rin $\,$ se skin w $\,$ ith

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 E YES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

Supplemental Hazard Information: EUH066: Repeated e xposure may cause skin dr yness o r

cracking.

2.3 Other hazards Vapour may create explosive atmosphere. The vapour is

heavier than air; beware of pits and confined spaces.

SECTION 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)
Ethyl acetate	20-30	141-78-6	205-500-4	-	H225, H319, H336, EUH019
Toluene	1-10	108-88-3	203-625-9	-	H225, H362d, H304, H373, H315, H336
Butan-2-one / methyl ethyl ketone	30-40 78-	93- 3	201-159-0	-	H319

EC Classification No. 67/548/EC

Hazardous	%W/W	CAS No.	EC No.	REACH	Risk Phrases and
ingredient(s)				Registration No.	Safety Phrases
Ethyl acetate	20-30	141-78-6	205-500-4	-	R11, R36, R66, R67
Toluene 1-10		108-88-3	203-625-9	-	R11, R38, R48/20,
					R63, R65, R67
Butan-2-one / methyl ethyl	30-40	78-93-3	201-159-0	-	R11, R36, R66, R67
ketone					

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation: Remove patient from ex posure, keep warm a nd at rest. I f

symptoms persist, obtain medical attention.

Skin Contact: Remove contaminated clothing immediately and drench affected

skin w ith plenty of w ater, then w ash with soap and w ater. If symptoms persi st, obtain medi cal attention. Contaminated

clothing should be thoroughly cleaned.

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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: 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. Obtain medical attention.

4.2 Most important symptoms and effects, both Irrita

acute and delayed

Irritating to e yes. Repeated and/or prolonged skin contact ma y cause irritation. Ma y cause irritation to the respirator y system. Vapours may cause dro wsiness and dizziness. Nausea.

Headache. Unconsciousness.

4.3 Indication of the immediate medical attention

and special treatment needed

If breathing is laboured, o xygen should be administered b y

qualified personnel.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing Media: Water spray, foam, dry powder or CO2

Unsuitable Extinguishing Media: Do not use water jet.

5.2 Special hazards arising from the substance or

mixture

Vapour ma y cr eate explosive atmosphere. The vapour is

heavier than air; beware of pits and confined spaces.

May give off toxic fumes in a fir e. Carb on mon oxide, Carbon

dioxide. Ethanol. acetic acid vapours.

5.3 Advice for fire-fighters A self contained brea thing app aratus and suitable protective

clothing should be worn in fire conditions. Keep fire e xposed

containers cool by spraying with water.

Flash Point (°C): -17

Flammable Limits (Lower) (%v/v): 1.9 Flammable Limits (Upper) (%v/v): 10.2) Auto Ignition Temperature (°C): 480-522

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures Eliminate sources of ignition. Vapour may cre ate explosive atmosphere. The vapour is heavier than air; beware of pits and confined spaces. Ensure adequate ventilation. Use nonsparking 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 Agenc y

or other appropriate regulatory body.



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6.3 Methods and material for containment and

cleaning up

Adsorb spillages onto sand , earth or any suitable adsorbe nt material. Sweep up carefully with non-sparking tools. Transfer to a container for disposal. Wash spill ar ea with soapy water. Contaminated a dsorbent must b e removed in s ealed, 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.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Eliminate sources of ignition. Vapour ma y cr eate e xplosive atmosphere. The vapour is heavier than air; be ware of pits and confined spaces. Provide adequat e ventilation, including appropriate local extraction, to ensure that the occupational exposure limit is not exceed ed. Use non-sparkin g hand tools and explosion p roof electrical equipment. Take precautionar y measures against static discharges.

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

Do not eat, drink or smoke at the work place. Wa sh hands and exposed skin after use. Cont aminated clothing should be

thoroughly cleaned. Handling: 15-25 °C.

7.2 Conditions for safe storage, including any

incompatibilities

Keep away from heat and sources of ignition. Keep from direct sunlight. Keep awa yf rom f rost. Keep onl y in the original

container in a cool, well-ventilated place.

Storage temperature (°C): 10-20

7.3 Specific end use(s)

Contact adhesive. Industrial use, Professional use.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters Exposure limit values Ethyl acetate Source/ Note: CAS No.: 141-78-6 USA 400 ppm (8-hr TWA) TLV France: 400 ppm, 1400 mg/m³ (VME) INRS Germany: 400 MAK-COMMISSION ml/m³, 1500 mg/m³ (exposure factor 2, 15 minutes, 4/1h) Denmark: 150 ppm; 540 mg/m³ WEA Spain: 400 ppm, 1.460 mg/m³ (VLA-ED) LÍMITES DE EXPOSICIÓN PROFESIONAL PARA AGENTES QUÍMICOS United Kingdom: 200 mg/m³ (8-hr TWA) EH40 - UK Occupational Exposure Limits 400 mg/m3 (15 minutes; STEL)

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	ACCORDING TO EC-REGULATIONS	1907/2000 (REACH) & 1272/2006 (CLP)		
Toluene CAS No.: 108-88-3	Exposure limit values	Source/ Note:		
EU	50 ppm, 192 mg/m ³ (8-hr TWA)	2006/15/EC		
	100 ppm, 384 mg/m ³ (15 minutes; STE	L)		
USA	50 ppm (8-hr TWA)	TLV		
France:	50 ppm, 192 mg/m³ (VME)	INRS		
	50 ppm, 192 mg/m³ (VLCT (ou VLE)))		
Germany: 50	ml/m³, 1900 mg/m³	MAK-COMMISSION		
	(exposure factor 2, 15 minutes,4/1h)			
Denmark:	25 ppm; 94 mg/m ³ WEA/	Н		
Spain :	50 ppm, 192 mg/m³ (VLA-ED)	LÍMITES DE EXPOSICIÓN PROFESIONAL		
	100 ppm, 384 mg/m ³ (VLA-EC)	PARA AGENTES QUÍMICOS/ vía dérmica, VLB ® ,		
		VLI,r		
Jnited Kingdom:	50 ppm, 191 mg/m ³ (8-hr TWA)	EH40 – UK Occupational Exposure Limits		
	100 ppm, 384 mg/m ³ (15 minutes; STE	IL)		
Butan-2-one / methyl ethyl ketone CAS No.: 78-93-3	Exposure limit values	Source/ Note:		
EU	200 ppm, 600 mg/m ³ (8-hr TWA)	2000/39/EG		
	300 ppm, 899 mg/m ³ (15 minutes; STE	IL)		
JSA	50 ppm (8-hr TWA)	TLV		
rance:	200 ppm, 600 mg/m ³ (VME)	INRS		
	300 ppm, 900 mg/m ³ (VLCT (ou VLE)			
Germany: 200	ml/m³, 600 mg/m³	MAK-COMMISSION		
	(exposure factor 2, 15 minutes,4/1h)			
Denmark:	50 ppm; 145 mg/m ³ WEA/	Н		
Spain :	200 ppm, 600 mg/m ³ (VLA-ED)	LÍMITES DE EXPOSICIÓN PROFESIONAL		
	300 ppm, 900 mg/m ³ (VLA-EC)	PARA AGENTES QUÍMICOS/ VLB ® , VLI		
Jnited Kingdom:	200 ppm, 600 mg/m ³ (8-hr TWA)	EH40 – UK Occupational Exposure Limits/		
	300 ppm, 899 mg/m ³ (15 minutes; STE	SK, BMGV		
2 Exposure cor	ntrols			
2.1 Appropriate e	e	Provide adequate ventilation, including appropriate local extraction, to ensure that the occupational exposure limit is exceeded.		
0 Danasmal Dua				

8.2.2 Personal Protection

ye/face protection



Protective gloves. (EN 374) Skin protection



Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment. (EN 141)



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Other: Apron or other light protective clothing, boots and plastic or

rubber gloves.

8.2.3 Environmental Exposure Controls Avoid release to the environment.

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Goggles giving complete protection to eyes. (EN 166)

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: Liquid. Colour: White. Odour: Ester-like.

Melting Point (°C) / Freezing Point (°C):

No information available.

Boiling Point (°C): 75-100 -17 Flash Point (°C): Flammable Limits (Lower) (%v/v): 19 Flammable Limits (Upper) (%v/v): 10.2 Auto Ignition Temperature (°C): 480-522 Vapour Pressure (Pascal): 10,330 Vapour Density (Air=1): >2.4 Specific Gravity: 0.85-0.95 Solubility (Water): Immiscible.

Partition coefficient (n-Octanol/water): log Pow = 0.26 - 0.69

Viscosity (mPa.s): 2500 Other information None.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity No information available.
 10.2 Chemical stability Stable under normal conditions.
 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.

10.6 Hazardous Decomposition Product(s) May give off toxic fumes in a fire. Carbon monoxide, Carbon

dioxide. Ethanol. acetic acid vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:

9.2

Ingestion: LD50 (oral/rat): 4935 mg/kg (Ethyl acetate)

LD50 (oral/rat): 2737 mg/kg (Butan-2-one / methyl ethyl ketone)

Inhalation: LD 50 (inhalation/rat): 1600 mg/l/4h (Ethyl acetate)

LD₅₀ (inhalation/rat): 34 mg/l/4h (Butan-2-one / methyl ethyl ketone)

Skin Contact: LD₅₀ (dermal/rabbit): 6480mg/kg (Butan-2-one / methyl ethyl ketone)

Eye Contact: No information available.

skin corrosion/irritation: Repeated and/or prolonged skin contact may cause irritation.

Serious eye damage/irritation: Irritating to eyes.
respiratory or skin sensitization: It is not a skin sensitiser.

Mutagenicity: There is no evidence of mutagenic potential.

Carcinogenicity: No evidence of carcinogenicity.

Reproductive toxicity: Category 2: Suspected of damaging the unborn child. STOT-single exposure: Category 3: May cause drowsiness or dizziness.

STOT-repeated exposure: Not classified.
Aspiration hazard: Not classified.

Other information: No information available.

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SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity Butan-2-one / methyl ethyl ketone:

LC₅₀ (Fathead minnow (Pimephales promelas)):32,200 mg/l 96h

EC₅₀ (Daphnia magna): 5,091 mg/l/48h

EC₅₀ (Algae): 120 mg/l/72h

WGK: 1.

log Pow = 0.26 - 0.69 BSB: 1.92 g O 2 /g

Chemical Oxygen Demand (COD): 2.31 g O 2 /g

12.2 Persistence and degradability
 12.3 Bioaccumulative potential
 12.4 Mobility in soil
 12.5 Results of PBT and vPvB assessment
 12.6 Other adverse effects
 No information available.
 No information available.
 No information available.

SECTION 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.

SECTION 14: TRANSPORT INFORMATION

14.1UN number113314.2Proper Shipping NameAdhesives.14.3Transport hazard class(es)314.4Packing GroupII

14.5 Environmental hazardsNot classified as a Marine Pollutant.

14.6 Special precautions for user 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

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SECTION 15: REGULATORY INFORMATION

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

substance or mixture

This Safet y Da ta Sheet was prepared in accordance with EC Regulation (EC) No. 1907/20 06., Regulation (EC) No. 1272/2008 (CL P), Directive 67/548/EEC & Directive 1999/45/EC.

15.1 Chemical Safety Assessment

SECTION 16: OTHER INFORMATION

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

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The following sections contain revisions or new statements: All sections.

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Hazard Symbol: H225: Highly flammable liquid and vapour.

H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.

H319: Causes serious eye irritation. H336: May cause drowsiness or dizziness.

H362: May cause harm to breast-fed children.

H373: May cause damage to organs through prolonged

or repeated exposure.

EUH019: May form explosive peroxides.

Risk Phrases: R11: Highly flammable.

R36: Irritating to eyes. R38: Irritating to skin.

R48/20: Harmful: danger of serious damage to health

by prolonged exposure through inhalation.
R63: Possible risk of harm to the unborn child.
R65: Harmful: may cause lung damage if swallowed.
R66: Repeat ed exposure may cause skin dry ness or

cracking.

R67: Vapours may cause drowsiness and dizziness.

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;

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;

References:

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

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