

SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH)

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

Product Name: alkorPLUS®

Use: Contact adhesive.
Industrial use. Professional use.

Product Code: ALKORPLUS 81040

Supplier: RENOLIT Belgium NV
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2. HAZARDS IDENTIFICATION

EC Classification: R11: Highly flammable.
R36: Irritating to eyes.
R63: Possible risk of harm to the unborn child.
R66: Repeated exposure may cause skin dryness or cracking.
R67: Vapours may cause drowsiness and dizziness.



Highly flammable. Harmful.

Hazards:

Highly flammable. Vapour may create explosive atmosphere. The vapour is heavier than air; beware of pits and confined spaces.

Irritating to eyes. Can be absorbed through skin. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

Possible risk of harm to the unborn child.

3. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT(S)

Chemical Name:	CAS No.	EC No.	%W/W	EU Hazard Symbol	EU Risk Phrases
Ethyl acetate	141-78-6	205-500-4	20-30	F, Xi	R11, R36, R66, R67
Toluene	108-88-3	203-625-9	1-10	F, Xn	R11, R38, R48/20, R63, R65, R67
Butan-2-one / methyl ethyl ketone	78-93-3	201-159-0	30-40	F, Xi	R11, R36, R66, R67

4. FIRST AID MEASURES

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 immediate medical attention.
Inhalation:	Remove patient from exposure, keep warm and at rest. If symptoms persist, obtain medical attention.
Skin Contact:	Remove contaminated clothing immediately and wash affected skin with plenty of water or soap and water. If symptoms persist, obtain medical attention.
Eye Contact:	Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes. Obtain immediate medical attention.
Effects and Symptoms:	Dizziness. Nausea. Headache. Unconsciousness. Repeated and/or prolonged skin contact may cause irritation. May cause irritation to the respiratory system.

5. FIRE-FIGHTING MEASURES

General:	Highly flammable. Vapour may create explosive atmosphere. The vapour is heavier than air; beware of pits and confined spaces. Eliminate sources of ignition. Take precautionary measures against static discharges. Ensure adequate earthing. Ensure adequate ventilation. Heating will cause pressure rise with risk of bursting and subsequent explosion. Keep fire exposed containers cool by spraying with water. If possible prevent water running into sewers.
Extinguishing Media:	Water spray, foam, dry powder or CO ₂ .
Unsuitable Extinguishing Media:	Do not use water jet.
Fire Fighting Protective Equipment:	A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions.
Other:	Flash Point (°C): -17 Auto Ignition Temperature (°C): 480-522 Flammable Limits (Lower) (%v/v): 1.9 Flammable Limits (Upper) (%v/v): 10.2 Combustion will evolve irritant and flammable vapours. Ethanol and acetic acid vapours.

6. ACCIDENTAL RELEASE MEASURES

Highly flammable. Vapour may create explosive atmosphere. The vapour is heavier than air; beware of pits and confined spaces. Eliminate sources of ignition. Use non-sparking hand tools and explosion proof electrical equipment. Take precautionary measures against static discharges. Ensure adequate earthing. Ensure adequate ventilation. Keep upwind.

Personal Protection:	Avoid inhalation of vapours. Avoid contact with skin and eyes. Wear suitable protective clothing. (See Section: 8). Contaminated clothing should be thoroughly cleaned.
Methods for 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.

Other: 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.

7. HANDLING AND STORAGE

Handling: Eliminate sources of ignition. Use non-sparking hand tools and explosion proof electrical equipment. Take precautionary measures against static discharges. Ensure adequate earthing. Provide adequate ventilation.

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

Do not eat, drink or smoke at the work place. Always wash hands before smoking, eating and drinking. Contaminated clothing should be thoroughly cleaned.

Handling: @ 15-25 °C.

Process Hazards: Highly flammable. Vapour may create explosive atmosphere. The vapour is heavier than air; beware of pits and confined spaces.

Storage: Keep away from heat and sources of ignition. Keep away from direct sunlight. Keep container tightly closed and in a well-ventilated place. Use only approved/suitable container.

Storage temperature (°C): 10-20

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

General: Provide adequate ventilation, including appropriate local extraction, to ensure that the occupational exposure limit is not exceeded. The vapour is heavier than air; beware of pits and confined spaces.



Respirators: In case of insufficient ventilation, wear suitable respiratory equipment.



Eye Protection: Goggles giving complete protection to eyes.



Gloves: Protective gloves. Neoprene. Nitrile rubber. PVC

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

Do not eat, drink or smoke at the work place. Always wash hands before smoking, eating and drinking.

Environmental Exposure Controls: Avoid release to the environment.

Occupational Exposure Limits

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Limit value type (country of origin)
Ethyl acetate	141-78-6	200	-	400	-	OEL (United Kingdom)
		400	1500	-	-	OEL (Germany)
		400	1400	-	-	VME (France)
		400	-	-	-	TLV (USA)
		400	1460	-	-	OEL (Spain)
Toluene	108-88-3	50	191	100	384	OEL (United Kingdom)
		50	190	-	-	OEL (Germany)
		50	192	100	384	VME (France)
		50	-	-	-	TLV (USA)
		50	192	100	384	OEL (Spain)
Butan-2-one / methyl ethyl ketone	78-93-3	200	600	300	899	OEL (United Kingdom)
		200	600	-	-	OEL (Germany)
		200	600	300	900	VME (France)
		200	-	300	-	TLV (USA)
		200	600	300	900	OEL (Spain)
		200	590	300	900	MAC (Netherlands)

Butan-2-one / methyl ethyl ketone

BMGV: Biological monitoring guidance value (UK HSE EH40) = 70 µmol butan-2-one/L in urine (post shift).

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid.
Colour:	White.
Odour:	Ester-like.
Boiling Point (°C):	75-110
Vapour Pressure (Pascal):	10,330
Viscosity (mPa.s):	2500
Flash Point (°C):	-17
Flammable Limits (Upper) (%v/v):	10.2
Flammable Limits (Lower) (%v/v):	1.9
Auto Ignition Temperature (°C):	480-522
Specific Gravity:	0.85-0.95
Vapour Density (Air=1):	>2.4
Partition Coefficient (n-Octanol/water):	log Pow = 0.26 - 0.69
Solubility (Water):	Immiscible.

10. STABILITY AND REACTIVITY

Stable under normal conditions.

Incompatible materials and conditions: Keep away from moisture.
Keep away from heat and sources of ignition. Keep away from direct sunlight.

Hazardous Decomposition Product(s): Combustion will evolve irritant and flammable vapours. Ethanol and acetic acid vapours.

11. TOXICOLOGICAL INFORMATION

Inhalation: Vapours may cause drowsiness and dizziness. Headache. Unconsciousness.
May cause irritation to the respiratory system.

LC₅₀ (inhalation/rat):
1600 mg/l/4h (ethyl acetate)
34 mg/l/4h (methyl ethyl ketone)

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Ingestion:	Ingestion may cause irritation of the gastrointestinal tract. LD ₅₀ (oral/rat): 4935 mg/kg (ethyl acetate) 2737 mg/kg (methyl ethyl ketone)
Skin Contact:	Can be absorbed through skin. Repeated exposure may cause skin dryness or cracking. LD ₅₀ (dermal/rabbit): 6480 mg/kg (methyl ethyl ketone)
Eye Contact:	Irritating to eyes.
Long Term Exposure:	Possible risk of harm to the unborn child.

12. ECOLOGICAL INFORMATION

Avoid release to the environment. Spillages or uncontrolled discharges into watercourses must be alerted to the Environment Agency or other appropriate regulatory body.

Toxicity:	Methyl ethyl ketone: LC ₅₀ (Fathead minnow (Pimephales promelas)) 3,200 mg/l - 96 h EC ₅₀ (Daphnia magna) 5,091 mg/l - 48 h EC ₅₀ (Algae) 120 mg/l - 72 h WGK (Wassergefährdungsklasse (Germany)): 1 log Pow = 0.26 - 0.69 BSB: 1.92 g O ₂ /g Chemical Oxygen Demand (COD): 2.31 g O ₂ /g
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13. DISPOSAL CONSIDERATIONS

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. Contaminated adsorbent must be removed in sealed, plastic lined drums and disposed of via an authorised waste disposal contractor.

14. TRANSPORT INFORMATION

Classification:



UN No.:	1133
Class:	3
UN Packing Group:	II
Proper Shipping Name:	Adhesives. Flash Point < 21 °C.

Road/Rail

ADR/RID Class:	3
HAZARDS IDENTIFICATION ADR/RID:	33

SEA

: primary Class :	3
UN Packing Group Sea:	II
Marine Pollutant:	No.
IMDG EMS:	F-E, S-D

AIR

ICAO/IATA:	
: primary Class :	3
UN Packing Group Air:	II

15. REGULATORY INFORMATION

European Regulations

Company Identification:

RENOLIT Belgium NV



Highly flammable.



Harmful.

Hazard Symbol:

F, Xn

Risk Phrases:

R11: Highly flammable.
R36: Irritating to eyes.
R63: Possible risk of harm to the unborn child.
R66: Repeated exposure may cause skin dryness or cracking.
R67: Vapours may cause drowsiness and dizziness.

Safety Phrases:

S16: Keep away from sources of ignition - No smoking.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S33: Take precautionary measures against static discharges.
S43: In case of fire, use: Water spray, foam, dry powder or CO₂. Do not use water jet.
S46: If swallowed, seek medical advice immediately and show this container or label.
S60: This material and its container must be disposed of as hazardous waste.

16. OTHER INFORMATION

Use:

Contact adhesive.
Industrial use. Professional use.

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: Repeated exposure may cause skin dryness or cracking.
R67: Vapours may cause drowsiness and dizziness.