

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

1.1. Product identifier

Product form : Mixture
Trade name : RENOLIT ALKORPLUS 81040
Type of product : Contact adhesive

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

1.2.1. Relevant identified uses

Main use category : Industrial uses, Professional use
Industrial/Professional use spec : Contact adhesive
Use of the product : Contact adhesive. For professional use only

Title	Use descriptors
Uses in Coatings (3)	SU3, PC1, PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC10, PROC13, PROC15, ERC4, ESVOC SPERC 4.3a.v1
Uses in Coatings (3)	SU3, PC1, PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC15, ERC4, ESVOC SPERC 4.3a.v1
Uses in Coatings (3)	SU22, PC1, PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC15, PROC19, ERC8a, ERC8d, ESVOC SPERC 8.3b.v1
Uses in Coatings (3)	SU22, PC1, PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC15, ERC8a, ERC8d, ESVOC SPERC 8.3b.v1

Full text of use descriptors: see section 16

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

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

1.4. Emergency telephone number

Emergency number : Tel.: +44 (0)1235 239 670 (24h / 7 days)
Tel.: + 32 (0)70 245 245 (Anti-gifcentrum België/Centre Anti-Poison Belgique)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, Category 2 H225
Serious eye damage/eye irritation, Category 2 H319
Specific target organ toxicity — Single exposure, Category 3, Narcosis H336

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

Contains volatile component(s). Combustible liquid.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



Signal word (CLP) : Danger
Hazard statements (CLP) : H225 - Highly flammable liquid and vapour
H319 - Causes serious eye irritation

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4/28/2016

EN (English)



Rely on it.

1/9

Precautionary statements (CLP)	: H336 - May cause drowsiness or dizziness P210 - Keep away from sources of ignition - No smoking P233 - Keep container tightly closed P240 - Ground/bond container and receiving equipment P241 - Use explosion-proof electrical/ventilating/lighting/... equipment P261 - Avoid breathing vapours, spray P264 - Wash hands thoroughly after handling
EUH-statements	: EUH066 - Repeated exposure may cause skin dryness or cracking
Extra phrases	: Contains : ethylacetate, methyl ethyl ketone

2.3. Other hazards

Other hazards not contributing to the classification : Vapours may form explosive mixture with air.

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ethyl acetate	(CAS No) 141-78-6 (EC no) 205-500-4 (EC index no) 607-022-00-5 (REACH-no) 01-2119475103-46	30 - 40	F; R11 Xi; R36 R66 R67	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
methyl ethyl ketone	(CAS No) 78-93-3 (EC no) 201-159-0 (EC index no) 606-002-00-3 (REACH-no) 01-2119457290-43	30 - 40	F; R11 Xi; R36 R66 R67	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

Full text of R- and H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person.
First-aid measures after inhalation	: Remove the victim into fresh air. In case of respiratory collapse: apply mouth-to-mouth resuscitation. When there is no quick recovery : consult a doctor/medical service.
First-aid measures after skin contact	: Wash immediately with lots of water. Wash with water and soap. Take victim to a doctor if irritation persists. Repeated or prolonged contact with the product may cause skin diseases.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Take victim to an ophthalmologist if irritation persists.
First-aid measures after ingestion	: Do not induce vomiting. When there is no quick recovery : consult a doctor/medical service.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : skin irritation. Dizziness. Nausea. Headache. skin degrease. Unconsciousness.

4.3. Indication of any immediate medical attention and special treatment needed

Causes damage to the central nervous system. Contains. ethylacetate. methyl ethyl ketone. toluene.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Dry powder. Carbon dioxide. Powder. Foam. Water haze. sand/earth.
Unsuitable extinguishing media	: Do not use a high volume water jet.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Floats on water and may be ignited again. Vapours are heavier than air and could spread above ground for a great distance till their source before exploding.
Explosion hazard	: Gas/vapour explosive with air within explosion limits. May form flammable/explosive vapour-air mixture.

5.3. Advice for firefighters

Precautionary measures fire : Evacuate all personnel that isn't necessary.

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- Firefighting instructions : Eliminate all ignition sources if safe to do so. Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.
- Other information : Cool containers/tanks with spray water if possible.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Do not inhale vapour. Close doors and windows of adjacent premises. Evacuate all personnel that isn't necessary. Avoid contact with skin and eyes. Shut off leaks if without risks. No naked flames or sparks. Ensure adequate ventilation. Keep away from sources of ignition - No smoking. In order to rule out potential electrostatic discharge production, the system must be adequately grounded.

6.1.1. For non-emergency personnel

- Protective equipment : Use protective clothing. See Heading 8.

6.1.2. For emergency responders

- Protective equipment : Wear suitable protective clothing and gloves. Wear a self contained breathing apparatus.

6.2. Environmental precautions

- Relevant water authorities should be notified of any large spillage to water course or drain. Product may not flow into sewer or superficial water.

6.3. Methods and material for containment and cleaning up

- For containment : Shut off leaks if without risks. Contain released substance, pump into suitable containers. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal.
- Methods for cleaning up : Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Wash down leftovers with plenty of water.
- Other information : May form flammable vapour-air mixture.

6.4. Reference to other sections

- See also sections (8, 13).

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Additional hazards when processed : if necessary: Ventilation, local exhaust, or breathing protection. In use, may form flammable vapour-air mixture. Handle empty containers with care because residual vapours are flammable. ventilate the area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- Precautions for safe handling : Use only outdoors or in a well-ventilated area. Do not get in eyes, on skin, or on clothing. Vapours are heavier than air and could spread above ground for a great distance till their source before exploding. No naked flames, sparks, and do not smoke. Use only non-sparking tools. Prevent build-up of electrostatic charges (e.g., by grounding).
- Handling temperature : 15 - 25 °C
- Hygiene measures : Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Do not use compressed air to fill, handle or work up. Comply with applicable regulations. Proper grounding procedures to avoid static electricity should be followed. Ensure adequate ventilation.
- Storage conditions : Store ... Keep container tightly closed. Keep only in the original container in a cool, well ventilated place away from : Heat sources. Direct sunlight.
- Storage temperature : 8 - 25 °C
- Storage area : Keep away from direct sunlight, heat sources and sources of ignition. Keep container tightly closed in a cool, well-ventilated place.
- Special rules on packaging : meet the legal requirements. Keep only in original container.
- Packaging materials : aluminium. stainless steel. steel.

7.3. Specific end use(s)

- Contact adhesive.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

ethyl acetate (141-78-6)		
Belgium	Limit value (mg/m ³)	1461 mg/m ³
Belgium	Limit value (ppm)	400 ppm

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methyl ethyl ketone (78-93-3)		
EU	IOELV TWA (mg/m ³)	600 mg/m ³
EU	IOELV TWA (ppm)	200 ppm
EU	IOELV STEL (mg/m ³)	900 mg/m ³
EU	IOELV STEL (ppm)	300 ppm
Belgium	Limit value (mg/m ³)	600 mg/m ³
Belgium	Limit value (ppm)	200 ppm
Belgium	Short time value (mg/m ³)	900 mg/m ³
Belgium	Short time value (ppm)	300 ppm

8.2. Exposure controls

- Appropriate engineering controls : If local exhaust is insufficient, wear full-face mask. Local exhaust and general ventilation must be adequate to meet exposure standards. Ensure adequate ventilation.
- Personal protective equipment : Gloves. Safety glasses.
- Materials for protective clothing : neoprene. nitrile rubber. PVC
- Hand protection : solvent-resistant gloves
- Eye protection : Wear security glasses when the product is being sprayed or may splash
- Skin and body protection : Standard working clothes
- Respiratory protection : Ensure adequate ventilation. If local exhaust is insufficient, wear full-face mask



- Consumer exposure controls : Caution : product for professional use only.
- Other information : Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Colour : White.
- Odour : ester-like.
- Odour threshold : No data available
- pH : No data available
- Relative evaporation rate (butylacetate=1) : No data available
- Melting point : No data available
- Freezing point : No data available
- Boiling point : No data available
- Flash point : -17 °C
- Auto-ignition temperature : 480 - 522 °C
- Decomposition temperature : No data available
- Flammability (solid, gas) : No data available
- Vapour pressure : 10.33 kPa
- Relative vapour density at 20 °C : > 2.4
- Relative density : 0.9 ±0.05
- Solubility : Water: Insoluble
- Log Pow : No data available
- Viscosity, kinematic : No data available
- Viscosity, dynamic : 2000 - 3000 (Spindle 1, 2,5/ RPM, 20°C)
- Explosive properties : Explosion Class: IIA, T3. Product is not explosive but may form flammable/explosive vapour-air mixture.
- Oxidising properties : No data available
- Explosive limits : 1.9 - 10.2 vol %

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9.2. Other information

VOC content : 73 - 75
Other properties : Insoluble in water.

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

direct sunlight. High temperature. fire, naked flames.

10.5. Incompatible materials

When liquid avoid. synthetic material. Water.

10.6. Hazardous decomposition products

ethanol. acetic acid vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

ethyl acetate (141-78-6)

LD50 oral rat	4935 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
LC50 inhalation rat (mg/l)	22.5 mg/l

methyl ethyl ketone (78-93-3)

LD50 oral rat	2737 mg/kg
LD50 dermal rabbit	6480 mg/kg
LC50 inhalation rat (mg/l)	20 mg/l/4h

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Causes serious eye irritation.
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
Specific target organ toxicity (single exposure) : May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Prevent soil and water pollution.
Ecology - water : Floats on water, evaporates quickly, danger of pollution of drinking water when large quantities of the product enters the soil.

ethyl acetate (141-78-6)

LC50 fish 2	> 230 mg/l 96 u Pimephales Promelas
EC50 Daphnia 2	> 164 mg/l Magna 24u

methyl ethyl ketone (78-93-3)

LC50 fish 1	1690 mg/l (96 h, LEPOMIS MACROCHIRUS, FRESH WATER)
LC50 fish 2	3200 mg/l (96 h, PIMEPHALES PROMELAS)
LC50 other aquatic organisms 1	8890 mg/l (DAPHNIA MAGNA)
LC50 other aquatic organisms 2	1950 ppm (24 h, ARTEMIA SALINA)
EC50 Daphnia 2	5091 mg/l (48 h, DAPHNIA MAGNA)
EC50 other aquatic organisms 1	120 mg/l (72 h, ALGAE)

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methyl ethyl ketone (78-93-3)	
EC50 other aquatic organisms 2	0.333 mg/l (<1 h, PHOTOBACTERIUM PHOSPHOREUM, MICROTOXTEST)
TLM fish 1	5600 mg/l (96 h, GAMBUSIA AFFINIS)
TLM fish 2	1690 mg/l (96 h, LEPOMIS MACROCHIRUS, FRESH WATER)
TLM other aquatic organisms 2	> 1000 ppm (96 h)
Threshold limit other aquatic organisms 1	3200 mg/l (96 h, GAMBUSIA AFFINIS)
Threshold limit other aquatic organisms 2	1150 mg/l (16 h, PSEUDOMONAS PUTIDA)
Threshold limit algae 1	110 mg/l (168 h, MICROCYSTIS AERUGINOSA)
Threshold limit algae 2	4300 mg/l (192 h, SCENEDESMUS QUADRICAUDA)

12.2. Persistence and degradability

NITRIKOL 2020	
Persistence and degradability	Not established.
ethyl acetate (141-78-6)	
Persistence and degradability	Readily biodegradable.
methyl ethyl ketone (78-93-3)	
Persistence and degradability	Readily biodegradable.
Biochemical oxygen demand (BOD)	1.92 g O ₂ /g substance
Chemical oxygen demand (COD)	2.31 g O ₂ /g substance
ThOD	2.44 g O ₂ /g substance
BOD (% of ThOD)	79 % ThOD

12.3. Bioaccumulative potential

ethyl acetate (141-78-6)	
Log Pow	0.68
Bioaccumulative potential	Not established.
methyl ethyl ketone (78-93-3)	
Log Pow	0.26/0.69
Bioaccumulative potential	No significant bioaccumulation.

12.4. Mobility in soil

ethyl acetate (141-78-6)	
Ecology - soil	Moderately soluble in water.
methyl ethyl ketone (78-93-3)	
Surface tension	0.024 N/m (20°C)

12.5. Results of PBT and vPvB assessment

NITRIKOL 2020	
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII	
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
Component	
ethyl acetate (141-78-6)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
methyl ethyl ketone (78-93-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

Additional information : Avoid undiluted product to come into sewer or superficial water

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Remove to an authorized waste treatment plant. Wastes, including emptied containers, should be disposed of in accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act.
Ecology - waste materials	: Toxic.
European List of Waste (LoW) code	: 08 04 09* - waste adhesives and sealants containing organic solvents or other dangerous substances

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

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14.1. UN number

UN-No. (ADR)	: 1133
UN-No. (IMDG)	: 1133
UN-No. (IATA)	: 1133
UN-No. (ADN)	: 1133
UN-No. (RID)	: 1133

14.2. UN proper shipping name

Proper Shipping Name (ADR)	: ADHESIVES
Proper Shipping Name (IMDG)	: ADHESIVES
Proper Shipping Name (IATA)	: ADHESIVES
Proper Shipping Name (ADN)	: ADHESIVES
Proper Shipping Name (RID)	: ADHESIVES
Transport document description (ADR)	: UN 1133 ADHESIVES (ADHESIVES containing flammable liquid), 3, II, (D/E)

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR)	: 3
Danger labels (ADR)	: 3



IMDG

Transport hazard class(es)	: 3
Danger labels	: 3



IATA

Transport hazard class(es)	: 3
Danger labels	: 3



ADN

Transport hazard class(es)	: 3
Danger labels	: 3



RID

Transport hazard class(es)	: 3
Danger labels	: 3

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14.4. Packing group

Packing group (ADR)	: II
Packing group (IMDG)	: II
Packing group (IATA)	: II
Packing group (ADN)	: II
Packing group (RID)	: II

14.5. Environmental hazards

Dangerous for the environment	: No
Marine pollutant	: No
Other information	: Not classified as dangerous for the environment

14.6. Special precautions for user

- Overland transport

Transport regulations (ADR)	: Subject
Classification code (ADR)	: F1
Special provisions (ADR)	: 640C
Limited quantities (ADR)	: 5I
Excepted quantities (ADR)	: E2
Packing instructions (ADR)	: P001
Special packing provisions (ADR)	: PP1
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T4
Portable tank and bulk container special provisions (ADR)	: TP1, TP8
Tank code (ADR)	: L1.5BN
Vehicle for tank carriage	: FL
Transport category (ADR)	: 2
Special provisions for carriage - Operation (ADR)	: S2, S20

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Hazard identification number (Kemler No.) : 33



Orange plates :
Tunnel restriction code (ADR) : D/E

- Transport by sea

Subject

- Air transport

Subject

- Inland waterway transport

Subject

- Rail transport

Subject

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content : 73 - 75

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Data sources : The information supplied has been based upon the current level of information available, for the purpose of specifying the requirements regarding environment, health and safety in conjunction with the product. They are not to be interpreted as a warranty.

Other information : (D) GIS-CODE: S1 Stark lösemittelhaltige Verlegewerkstoffe, aromaten- und methanolfrei.

Full text of R-, H- and EUH-statements:

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H225	Highly flammable liquid and vapour
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness
EUH066	Repeated exposure may cause skin dryness or cracking
R11	Highly flammable
R36	Irritating to eyes
R66	Repeated exposure may cause skin dryness or cracking
R67	Vapours may cause drowsiness and dizziness
F	Highly flammable
Xi	Irritant
ERC4	Industrial use of processing aids in processes and products, not becoming part of articles
ERC8a	Wide dispersive indoor use of processing aids in open systems

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ERC8d	Wide dispersive outdoor use of processing aids in open systems
ESVOC SPERC 4.3a.v1	Uses in Coatings (SU3)
ESVOC SPERC 8.3b.v1	Uses in Coatings: Professional (SU22)
PC1	Adhesives, sealants
PROC1	Use in closed process, no likelihood of exposure
PROC10	Roller application or brushing
PROC11	Non industrial spraying
PROC13	Treatment of articles by dipping and pouring
PROC15	Use as laboratory reagent
PROC19	Hand-mixing with intimate contact and only PPE available
PROC2	Use in closed, continuous process with occasional controlled exposure
PROC3	Use in closed batch process (synthesis or formulation)
PROC4	Use in batch and other process (synthesis) where opportunity for exposure arises
PROC5	Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)
PROC7	Industrial spraying
PROC8a	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities
PROC8b	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
SU22	Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
SU3	Industrial uses: Uses of substances as such or in preparations* at industrial sites

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product