

Safety Data Sheet

according to Regulation (EC) No 1907/2006

KNETHOLZ MS/PK-L

Revision date: 22.05.2019

Product code: 00178-0003

Page 2 of 11

P304+P340
P501

IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Dispose of contents/container to in accordance with local and national regulations.

Special labelling of certain mixtures

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

Vapours may form explosive mixture with air.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Preparation with acetone, wet nitrocellulose, acetates and auxiliary agents

Hazardous components

CAS No	Chemical name	Quantity
	EC No	Index No
	REACH No	
	GHS Classification	
67-64-1	Acetone	< 50 %
	200-662-2	606-001-00-8
	01-2119471330-49	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066	
9004-70-0	Nitrocellulose, containing a maximum of 12,6% nitrogen	< 10 %
	Flam. Sol. 1; H228	
64-17-5	Ethanol	< 5 %
	200-578-6	603-002-00-5
	01-2119457610-43	
	Flam. Liq. 2, Eye Irrit. 2; H225 H319	

Full text of H and EUH statements: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated soaked clothing immediately.
If you feel unwell, seek medical advice.

After inhalation

Move to fresh air in case of accidental inhalation of vapours.
In the event of symptoms refer for medical treatment.

After contact with skin

Wash off with soap and plenty of water.
Treat subsequently with skin cream.

After contact with eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
If eye irritation persists, consult a specialist.

After ingestion

Do not induce vomiting.
Rinse out mouth and give plenty of water to drink.
Never give anything by mouth to an unconscious person.
Summon a doctor immediately.
Induce vomiting only upon the advice of a physician.

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

Causes serious eye irritation.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

KNETHOLZ MS/PK-L

Revision date: 22.05.2019

Product code: 00178-0003

Page 3 of 11

May cause drowsiness or dizziness.
Repeated exposure may cause skin dryness or cracking.

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

Treat symptoms.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**Alcohol-resistant foam, dry chemical, carbon dioxide (CO₂), water-spray.**Unsuitable extinguishing media**

Full water jet.

5.2. Special hazards arising from the substance or mixture

Fire may produce:

Carbon monoxide, carbon dioxide, sulphur oxides and nitrogen oxides (NO_x).**5.3. Advice for firefighters**

Use breathing apparatus with independent air supply.

Protective suit.

Additional information

The vapour/air mixture is explosive, even in empty, uncleaned receptacles.

Cool containers at risk with water spray jet.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Avoid contact with skin, eyes and clothing.

In case of insufficient ventilation, wear suitable respiratory equipment.

Ensure adequate ventilation.

Keep away sources of ignition.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/ground water.

6.3. Methods and material for containment and cleaning up

Shovel into suitable container for disposal.

6.4. Reference to other sections

Observe protective instructions (see Sections 7 and 8).

Information for disposal see section 13.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Keep out of reach of children.

Keep container tightly closed.

Use only in thoroughly ventilated areas.

Advice on protection against fire and explosion

Keep away from heat and sources of ignition.

Vapours are heavier than air and spread along ground.

Pay attention to anti-explosion rules.

Vapour/air mixture is explosive, even in empty uncleaned receptacles.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep containers tightly closed in a dry, well-ventilated place.

Hints on joint storage

Incompatible with:

Safety Data Sheet

according to Regulation (EC) No 1907/2006

KNETHOLZ MS/PK-L

Revision date: 22.05.2019

Product code: 00178-0003

Page 4 of 11

Oxidizing agents
Chlorinated hydrocarbons

Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

7.3. Specific end use(s)

Product for wood repair

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
67-64-1	Acetone	500	1210		TWA (8 h)	WEL
		1500	3620		STEL (15 min)	WEL
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL
1332-58-7	Kaolin respirable dust	-	2		TWA (8 h)	WEL

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
67-64-1	Acetone			
	Worker DNEL, acute	inhalation	local	2420 mg/m ³
	Worker DNEL, long-term	dermal	systemic	186 mg/kg bw/day
	Worker DNEL, long-term	inhalation	systemic	1210 mg/m ³
	Consumer DNEL, long-term	dermal	systemic	62 mg/kg bw/day
	Consumer DNEL, long-term	inhalation	systemic	200 mg/m ³
	Consumer DNEL, long-term	oral	systemic	62 mg/kg bw/day
64-17-5	Ethanol			
	Worker DNEL, long-term	inhalation	systemic	950 mg/m ³
	Worker DNEL, acute	inhalation	local	1900 mg/m ³
	Worker DNEL, long-term	dermal	systemic	343 mg/kg bw/day
	Consumer DNEL, long-term	inhalation	systemic	114 mg/m ³
	Consumer DNEL, acute	inhalation	local	950 mg/m ³
	Consumer DNEL, long-term	dermal	systemic	206 mg/kg bw/day
	Consumer DNEL, long-term	oral	systemic	87 mg/kg bw/day

Safety Data Sheet

according to Regulation (EC) No 1907/2006

KNETHOLZ MS/PK-L

Revision date: 22.05.2019

Product code: 00178-0003

Page 5 of 11

PNEC values

CAS No	Substance		Value
Environmental compartment			
67-64-1	Acetone		
Freshwater			10,6 mg/l
Marine water			1,06 mg/l
Freshwater sediment			30,4 mg/kg
Marine sediment			3,04 mg/l
Micro-organisms in sewage treatment plants (STP)			100 mg/l
Soil			29,5 mg/kg
64-17-5	Ethanol		
Freshwater			0,96 mg/l
Marine water			0,79 mg/l
Freshwater sediment			3,6 mg/kg
Marine sediment			2,9 mg/kg
Secondary poisoning			720 mg/kg
Micro-organisms in sewage treatment plants (STP)			580 mg/l
Soil			0,63 mg/kg

8.2. Exposure controls

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

Protective and hygiene measures

Do not inhale vapours.

Wash hands before breaks and at the end of workday.

When using do not eat, drink or smoke.

Take off immediately all contaminated clothing.

Avoid contact with skin, eyes and clothing.

Eye/face protection

Tightly fitting goggles (EN 166).

Hand protection

Protective gloves resistant to chemicals made off butyl, minimum coat thickness 0.7 mm, permeation resistance approx. 480 minutes, i.e. protective glove <Butoject 898> made by www.kcl.de.

This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.

Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

Skin protection

Long sleeved clothing (DIN EN ISO 6530)

Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment (gas filter type A) (EN 14387).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	pasty	
Colour:	Different	
Odour:	Aromatic	
pH-Value:		n.d.

Changes in the physical state

Melting point:		n.d.
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Safety Data Sheet

according to Regulation (EC) No 1907/2006

KNETHOLZ MS/PK-L

Revision date: 22.05.2019

Product code: 00178-0003

Page 6 of 11

Initial boiling point and boiling range:	n.d.
Sublimation point:	n.a.
Softening point:	n.d.
Flash point:	n.a.
Flammability	
Solid:	n.d.
Gas:	n.a.

Explosive properties

The product is considered non-explosive; nevertheless explosive vapour/air mixture can be generated.

Lower explosion limits:	2,5 vol. %
Upper explosion limits:	n.d.
Ignition temperature:	approx. 540 °C

Auto-ignition temperature

Solid:	n.d.
Gas:	n.a.

Decomposition temperature: n.d.

Oxidizing properties

Not oxidising.

Vapour pressure: (at 20 °C)	n.d.
Density (at 20 °C):	> 1 g/cm ³
Bulk density:	n.a.
Water solubility:	insoluble

Solubility in other solvents

n.d.

Partition coefficient:	n.d.
Viscosity / dynamic:	n.d.
Viscosity / kinematic:	n.d.
Flow time:	n.d.
Vapour density:	n.d.
Evaporation rate:	n.d.
Solvent separation test:	n.d.
Solvent content:	< 55 %

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No decomposition if stored and applied as directed.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Reactions with oxidizing agents.

10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat.

10.5. Incompatible materials

Chlorinated hydrocarbons, oxidizing agents

Safety Data Sheet

according to Regulation (EC) No 1907/2006

KNETHOLZ MS/PK-L

Revision date: 22.05.2019

Product code: 00178-0003

Page 7 of 11

10.6. Hazardous decomposition products

Carbon monoxide, carbon dioxide, sulphur oxides, and nitrogen oxides (NOx).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met.

No toxicological data available.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
67-64-1	Acetone				
	oral	LD50 mg/kg 5800	Rat		
	dermal	LD50 mg/kg 20000	Rabbit		
	inhalation (4 h) vapour	LC50 76 mg/l	Rat		
64-17-5	Ethanol				
	oral	LD50 mg/kg 10470	Rat		OECD 401
	dermal	LD50 mg/kg > 2000	Rabbit		OECD 402
	inhalation (4 h) vapour	LC50 51 mg/l	Rat		OECD 403

Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

May cause drowsiness or dizziness. (Acetone)

STOT-repeated exposure

Repeated exposure may cause skin dryness or cracking.

Aspiration hazard

Based on available data, the classification criteria are not met.

Additional information on tests

Classification in compliance with the assessment procedure specified in the Regulation (EC) no 1272/2008.

Practical experience

Other observations

Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.

May cause irritation of the mucous membranes.

SECTION 12: Ecological information

12.1. Toxicity

Ecological data are not available.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

KNETHOLZ MS/PK-L

Revision date: 22.05.2019

Product code: 00178-0003

Page 8 of 11

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
67-64-1	Acetone					
	Acute fish toxicity	LC50 mg/l	5540	96 h	Onchorhynchus mykiss	
	Acute crustacea toxicity	EC50 mg/l	6100	48 h	Daphnia magna	
	Algae toxicity	NOEC	530 mg/l	8 d	Microcystis aeruginosa	
	Acute bacteria toxicity	(59 - 67,4 mg/l)		0,5 h	Activated sludge	
64-17-5	Ethanol					
	Acute fish toxicity	LC50 mg/l	13000	96 h	Oncorhynchus mykiss	OECD 203
	Acute algae toxicity	ErC50	275 mg/l		Chlorella vulgaris	OECD 201
	Acute crustacea toxicity	EC50 mg/l	12340	48 h	Daphnia magna	ASTM E 729-80

12.2. Persistence and degradability

Ethanol, Acetone
Readily biodegradable.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
67-64-1	Acetone			
		91%	28	
	Readily biodegradable.			
	Chemical oxygen demand (COD)	2070 mg/g		
	Theoretical oxygen demand (ThOD)	2200 mg/kg		
64-17-5	Ethanol			
	OECD 301 B	97 %	28	
	Readily biodegradable.			

12.3. Bioaccumulative potential

Ethanol, Acetone
Low bio-accumulation can be estimated because of low log Po/w.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
67-64-1	Acetone	-0,24
64-17-5	Ethanol	- 0,35

BCF

CAS No	Chemical name	BCF	Species	Source
64-17-5	Ethanol	0,66		

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

12.6. Other adverse effects

Low hazard to waters.

Further information

Do not flush into surface water or sanitary sewer system.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

KNETHOLZ MS/PK-L

Revision date: 22.05.2019

Product code: 00178-0003

Page 9 of 11

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Can be incinerated, when in compliance with local regulations.
Where possible recycling is preferred to disposal.

Waste disposal number of waste from residues/unused products

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

Contaminated packaging

Empty containers should be taken for local recycling, recovery or waste disposal.
Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.
Packaging that cannot be cleaned should be disposed of like the product.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: UN 1325
14.2. UN proper shipping name: FLAMMABLE SOLID, ORGANIC, N.O.S. (Acetone)
14.3. Transport hazard class(es): 4.1
14.4. Packing group: II
 Hazard label: 4.1



Classification code: F1
 Limited quantity: 1 kg / 30 kg
 Excepted quantity: E2
 Transport category: 2
 Hazard No: 40
 Tunnel restriction code: E

Inland waterways transport (ADN)

14.1. UN number: UN 1325
14.2. UN proper shipping name: FLAMMABLE SOLID, ORGANIC, N.O.S. (Acetone)
14.3. Transport hazard class(es): 4.1
14.4. Packing group: II
 Hazard label: 4.1



Classification code: F1
 Limited quantity: 1 kg / 30 kg
 Excepted quantity: E2

Marine transport (IMDG)

14.1. UN number: UN 1325
14.2. UN proper shipping name: FLAMMABLE SOLID, ORGANIC, N.O.S. (Acetone)
14.3. Transport hazard class(es): 4.1
14.4. Packing group: II

Safety Data Sheet


according to Regulation (EC) No 1907/2006

KNETHOLZ MS/PK-L

Revision date: 22.05.2019

Product code: 00178-0003

Page 10 of 11

Hazard label: 4.1


Marine pollutant: No
 Limited quantity: 1 kg / 30 kg
 Excepted quantity: E2
 EmS: F-A, S-G

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 1325
14.2. UN proper shipping name: FLAMMABLE SOLID, ORGANIC, N.O.S. (Acetone)
14.3. Transport hazard class(es): 4.1
14.4. Packing group: II
 Hazard label: 4.1



Limited quantity Passenger: 5 kg
 Passenger LQ: Y441
 Excepted quantity: E2

IATA-packing instructions - Passenger:	445
IATA-max. quantity - Passenger:	15 kg
IATA-packing instructions - Cargo:	448
IATA-max. quantity - Cargo:	50 kg

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

Handle in accordance with good industrial hygiene and safety practice.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

The transport takes place only in approved and appropriate packaging.

SECTION 15: Regulatory information

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

EU regulatory information

2004/42/EC (VOC): < 55 %
 Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Abbreviations and acronyms

Changes in chapter: 2, 9, 11, 14
 Flam. liq. = Flammable liquid
 Flam. sol. = Flammable solid

Safety Data Sheet

according to Regulation (EC) No 1907/2006

KNETHOLZ MS/PK-L

Revision date: 22.05.2019

Product code: 00178-0003

Page 11 of 11

Eye Irrit. = Eye irritation

STOT SE = Specific Target Organ Toxicity (Single exposure)

Abbreviations and acronyms

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route

RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses

ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

IMDG = International Maritime Code for Dangerous Goods

IATA/ICAO = International Air Transport Association / International Civil Aviation Organization

MARPOL = International Convention for the Prevention of Pollution from Ships

IBC-Code = International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

REACH = Registration, Evaluation, Authorization and Restriction of Chemicals

CAS = Chemical Abstract Service

EN = European norm

ISO = International Organization for Standardization

DIN = Deutsche Industrie Norm

PBT = Persistent Bioaccumulative and Toxic

vPvB = Very Persistent and very Bio-accumulative

LD = Lethal dose

LC = Lethal concentration

EC = Effect concentration

IC = Median immobilisation concentration or median inhibitory concentration

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Flam. Sol. 1; H228	On basis of test data
Eye Irrit. 2; H319	Calculation method
STOT SE 3; H336	Calculation method

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H228	Flammable solid.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.

Further Information

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)