

Safety data sheet according to UK REACH

Printing date 03.03.2026

Version number 1.7 (replaces version 1.6)

Revision: 03.03.2026

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

- **1.1 Product identifier**
- **Trade name:** KREUL Zapon varnish 150 ml, 400 ml
- **Article number:** 840150, 840400
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture**
Lacquer
For artists and hobby user.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
C. KREUL GmbH & Co. KG
Carl-Kreul-Straße 2
D-91352 HALLERNDORF
GERMANY
Phone: + 49 (0) 9545/925 - 0
Fax: + 49 (0) 9545/925 - 511
info@c-kreul.de
- **Further information obtainable from:**
Product Safety Department:
Treiber, b.treiber@c-kreul.de
- **1.4 Emergency telephone number:** + 44 (0) 171 635 91 91

2 Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.
STOT SE 3 H336 May cause drowsiness or dizziness.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the GB CLP regulation.
- **Hazard pictograms**



GHS02



GHS07

- **Signal word** Danger
- **Hazard-determining components of labelling:**
acetone
2-methoxy-1-methylethyl acetate
n-butyl acetate
- **Hazard statements**
H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
- **Precautionary statements**
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.

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- P251 Do not pierce or burn, even after use.
 P260 Do not breathe spray.
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
 P501 Dispose of contents/container in accordance with regional regulations.

Additional information:

- EUH066 Repeated exposure may cause skin dryness or cracking.
 Buildup of explosive mixtures possible without sufficient ventilation.

2.3 Other hazards

Results of PBT and vPvB assessment

- **PBT:** Not applicable
 • **vPvB:** Not applicable

3 Composition/information on ingredients

3.2 Mixtures

- **Description:** Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 67-64-1 EINECS: 200-662-2 Index number: 606-001-00-8 Reg.nr.: 01-2119471330-49-XXXX	acetone ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	25-<50%
CAS: 115-10-6 EINECS: 204-065-8 Index number: 603-019-00-8 Reg.nr.: 01-2119472128-37-XXXX	dimethyl ether ⚠ Flam. Gas 1A, H220; Press. Gas (Comp.), H280	25-<50%
CAS: 108-65-6 EINECS: 203-603-9 Index number: 607-195-00-7 Reg.nr.: 01-2119475791-29-xxxx	2-methoxy-1-methylethyl acetate ⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336	5-<10%
CAS: 123-86-4 EINECS: 204-658-1 Index number: 607-025-00-1 Reg.nr.: 01-2119485493-29-XXXX	n-butyl acetate ⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336, EUH066	2.5-<5%
CAS: 9004-70-0	nitrocellulose solutions, with not more than 12.6% nitrogen, by dry mass, and not more than 55% nitrocellulose ⚠ Flam. Sol. 2, H228	<2.5%

Additional information:

- Benzene (EINECS 200-753-7) <0.1%. (Note P Annex VI to Directive (EC) No 1272/2008)
 For the wording of the listed hazard phrases refer to section 16.

4 First aid measures

4.1 Description of first aid measures

- **General information:** Immediately remove any clothing soiled by the product.
 • **After inhalation:** Supply fresh air; consult doctor in case of complaints.
 • **After skin contact:**
 Wash with water and acidic soap.
 If skin irritation continues, consult a doctor.
 • **After eye contact:**
 Remove contact lenses.
 Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
 • **After swallowing:**
 If symptoms persist consult doctor.
 Rinse out mouth and then drink plenty of water.
 A person vomiting while laying on their back should be turned onto their side.
 • **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
 • **4.3 Indication of any immediate medical attention and special treatment needed**
 No further relevant information available.

5 Firefighting measures

5.1 Extinguishing media

- **Suitable extinguishing agents:** CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
 • **For safety reasons unsuitable extinguishing agents:** Water with full jet

5.2 Special hazards arising from the substance or mixture

- During heating or in case of fire poisonous gases are produced.

5.3 Advice for firefighters

- **Protective equipment:** Mouth respiratory protective device.
 • **Additional information** Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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6 Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
Dispose of the material collected according to regulations.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **7.1 Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Keep respiratory protective device available.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Observe official regulations on storing packagings with pressurised containers.
- **Information about storage in one common storage facility:** Not required
- **Further information about storage conditions:** Keep container tightly sealed.
- **Storage class:** 2B
- **7.3 Specific end use(s)** See Section 1.2.

8 Exposure controls/personal protection

- **8.1 Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

67-64-1 acetone

WEL	Short-term value: 3620 mg/m ³ , 1500 ppm
	Long-term value: 1210 mg/m ³ , 500 ppm

115-10-6 dimethyl ether

WEL	Short-term value: 958 mg/m ³ , 500 ppm
	Long-term value: 766 mg/m ³ , 400 ppm

108-65-6 2-methoxy-1-methylethyl acetate

WEL	Short-term value: 548 mg/m ³ , 100 ppm
	Long-term value: 274 mg/m ³ , 50 ppm
Sk	

123-86-4 n-butyl acetate

WEL	Short-term value: 966 mg/m ³ , 200 ppm
	Long-term value: 724 mg/m ³ , 150 ppm

- **DNELs**

67-64-1 acetone

Oral	chronic - systemic effect	62 mg/kg bw/d (general population)
Dermal	chronic - systemic effect	62 mg/kg bw/d (general population)
		186 mg/kg bw/d (worker)
Inhalative	acute - local effect	2,420 mg/m ³ (worker)
	chronic - systemic effect	200 mg/m ³ (general population)
		1,210 mg/m ³ (worker)

108-65-6 2-methoxy-1-methylethyl acetate

Oral	chronic - systemic effect	36 mg/kg bw/d (general population)
Dermal	chronic - systemic effect	320 mg/kg bw/d (general population)
		796 mg/kg bw/d (worker)
Inhalative	acute - local effect	550 mg/m ³ (worker)
	chronic - systemic effect	33 mg/m ³ (general population)
		275 mg/m ³ (worker)

123-86-4 n-butyl acetate

Oral	acute - systemic effect	2 mg/kg bw/d (general population)
	chronic - systemic effect	2 mg/kg bw/d (general population)
Dermal	acute - systemic effect	6 mg/kg bw/d (general population)
		11 mg/kg bw/d (worker)

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Inhalative	chronic - systemic effect	6 mg/kg bw/d (general population)
		11 mg/kg bw/d (worker)
	acute - systemic effect	300 mg/m ³ (general population)
		600 mg/m ³ (worker)
	acute - local effect	600 mg/m ³ (worker)
	chronic - local effect	35.7 mg/m ³ (general population)
		300 mg/m ³ (worker)
	chronic - systemic effect	35.7 mg/m ³ (general population)
		300 mg/m ³ (worker)

· PNECs

67-64-1 acetone

freshwater	10.6 mg/l
marine water	1.06 mg/l
sewage treatment plant (STP)	100 mg/l
freshwater sediment	30.4 mg/kg
marine sediment	3.04 mg/kg
soil	29.5 mg/kg

108-65-6 2-methoxy-1-methylethyl acetate

water	6.35 mg/l
freshwater	0.635 mg/l
marine water	0.0635 mg/l
sewage treatment plant (STP)	100 mg/l
freshwater sediment	3.29 mg/kg
marine sediment	0.329 mg/kg
soil	0.29 mg/kg

123-86-4 n-butyl acetate

freshwater	0.18 mg/l
marine water	0.018 mg/l
sewage treatment plant (STP)	35.6 mg/l
freshwater sediment	0.981 mg/kg
marine sediment	0.0981 mg/kg
soil	0.0903 mg/kg

· **Additional information:** The lists valid during the making were used as basis.

· 8.2 Exposure controls

· **Appropriate engineering controls** No further data; see section 7.

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Filter A2/P3

· **Hand protection**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **For the permanent contact gloves made of the following materials are suitable:**

PVC or PE gloves

Recommended thickness of the material: $\geq$ - mm

Value for the permeation: Level $\leq$ 8h

· **As protection from splashes gloves made of the following materials are suitable:**

Butyl rubber, BR

Recommended thickness of the material: $\geq$ 0.4 mm

Value for the permeation: Level $\leq$ 4-8h

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· Eye/face protection

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Tightly sealed goggles

9 Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information	
· Physical state	Aerosol
· Colour:	According to product specification
· Odour:	Characteristic
· Odour threshold:	Not determined
· Melting point/freezing point:	Undetermined
· Boiling point or initial boiling point and boiling range	Not applicable, as aerosol
· Flammability	Not applicable
· Lower and upper explosion limit	
· Lower:	2.6 Vol % (67-64-1 acetone)
· Upper:	26.2 Vol % (115-10-6 dimethyl ether)
· Flash point:	Not applicable, as aerosol
· Auto-ignition temperature:	235 °C
· Decomposition temperature:	Not determined
· pH	Not determined
· Viscosity:	
· Kinematic viscosity	Not determined
· Dynamic:	Not determined
· Solubility	
· water:	Not miscible or difficult to mix.
· Partition coefficient n-octanol/water (log value)	Not determined
· Vapour pressure at 20 °C:	4,000 hPa (115-10-6 dimethyl ether)
· Density and/or relative density	
· Density at 20 °C:	~0.7 g/cm ³
· Relative density	Not determined
· Vapour density	Not determined

· 9.2 Other information

· Appearance:	
· Form:	Aerosol
· Important information on protection of health and environment, and on safety.	
· Ignition temperature:	Product is not selfigniting.
· Explosive properties:	Not determined
· Solvent content:	
· VOC (EC)	97,0 %
· Change in condition	
· Evaporation rate	Not applicable.

· Information with regard to physical hazard classes

· Explosives	Void
· Flammable gases	Void
· Aerosols	Extremely flammable aerosol. Pressurised container: May burst if heated.
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Void
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

10 Stability and reactivity

- 10.1 Reactivity No further relevant information available.

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- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

67-64-1 acetone

Oral	LD50	5,800 mg/kg (rat)
Dermal	LD50	>15,800 mg/kg (rabbit)
Inhalative	LC50/4h	76 mg/m ³ (rat)

115-10-6 dimethyl ether

Inhalative	LC50/4h	308 mg/m ³ (rat)
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108-65-6 2-methoxy-1-methylethyl acetate

Oral	LD50	8,532 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat) (OECD 401)
		>5,000 mg/kg (rabbit)
Inhalative	LC50/4h	>10,000 mg/l (rat)

123-86-4 n-butyl acetate

Oral	LD50	10,800 mg/kg (rat)
Dermal	LD50	>17,600 mg/kg (rabbit)
Inhalative	LC50/4h	>21 mg/m ³ (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**
Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure**
May cause drowsiness or dizziness.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

· 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

12 Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

67-64-1 acetone

LC50/96h	8,300 mg/l (fish)
	5,540 mg/l (oncorhynchus mykiss)
LC50/48h	8,450 mg/l (crustaceans)
EC50/96h	7,200 mg/l (algae)

115-10-6 dimethyl ether

LC50/96h	>4,000 mg/l (fish)
LC50/48h	>4,000 mg/l (daphnia magna)
EC50/96h	155 mg/l (algae)

108-65-6 2-methoxy-1-methylethyl acetate

LC50/96h	180 mg/l (oncorhynchus mykiss)
EC50/48h	>500 mg/l (daphnia magna)
EbCx 10%	>1,000 mg/l (microorganisms)
EC50/21d	>100 mg/l (daphnia magna) (OECD 211)
ErC50/96h	>1,000 mg/l (pseudokirchneriella subcapitata)
LC50	63.5 mg/l (oryzias latipes) (OECD 204)
LOEC/96h	>1,000 mg/l (pseudokirchneriella subcapitata)
NOEC/48d	47.5 mg/l (oryzias latipes) (OECD 204)

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123-86-4 n-butyl acetate

LC50/96h 81 mg/l (fish)

12.2 Persistence and degradability**108-65-6 2-methoxy-1-methylethyl acetate**

Carbon dioxide production 90 % /28d (OECD 301 F)

DOC removal 99 % /28d (OECD 301 F)

Oxygen consumption 83 % /28d (OECD 301 F)

· **12.3 Bioaccumulative potential** No further relevant information available.· **12.4 Mobility in soil** No further relevant information available.**12.5 Results of PBT and vPvB assessment**· **PBT:** Not applicable· **vPvB:** Not applicable· **12.6 Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.**12.7 Other adverse effects****Additional ecological information:****General notes:**

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

13 Disposal considerations

13.1 Waste treatment methods· **Recommendation** Must not be disposed together with household garbage. Do not allow product to reach sewage system.**Uncleaned packaging:**· **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

14.1 UN number or ID number· **ADR, IMDG, IATA**

UN1950

14.2 UN proper shipping name· **ADR**

1950 AEROSOLS

· **IMDG, IATA**

AEROSOLS

14.3 Transport hazard class(es)· **ADR**· **Class**

2 5F Gases.

· **Label**

2.1

· **IMDG, IATA**· **Class**

2 Gases.

· **Label**

2.1

14.4 Packing group

-

14.5 Environmental hazards:

Not applicable

14.6 Special precautions for user· **EMS Number:**

Warning: Gases.

· **Stowage Code**

F-D,S-U

SW1 Protected from sources of heat.

SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A.
For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.· **Segregation Code**

SG69 For AEROSOLS with a maximum capacity of 1 litre:

Segregation as for class 9. Stow "separated from" class 1 except for division 1.4.

For AEROSOLS with a capacity above 1 litre:

Segregation as for the appropriate subdivision of class 2.

For WASTE AEROSOLS:

Segregation as for the appropriate subdivision of class 2.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable

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· Transport/Additional information:

· ADR

· Limited quantities (LQ)

1 I

· Tunnel restriction code

2 (D)

· UN "Model Regulation":

UN 1950 AEROSOLS, 2.1

15 Regulatory information

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

· Poisons Act

· Regulated explosives precursors

None of the ingredients is listed.

· Regulated poisons

None of the ingredients is listed.

· Reportable explosives precursors

67-64-1 acetone

Listed

· Reportable poisons

None of the ingredients is listed.

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I

None of the ingredients is listed.

· Seveso category P3a

FLAMMABLE AEROSOLS

· Qualifying quantity (tonnes) for the application of lower-tier requirements

150 t

· Qualifying quantity (tonnes) for the application of upper-tier requirements

500 t

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

H220 Extremely flammable gas.
 H225 Highly flammable liquid and vapour.
 H226 Flammable liquid and vapour.
 H228 Flammable solid.
 H280 Contains gas under pressure; may explode if heated.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.
 EUH066 Repeated exposure may cause skin dryness or cracking.

· Department issuing SDS: Product Safety Department

· Contact: B. Treiber, b.treiber@c-kreul.de

· Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

ATE: Acute toxicity estimate values

Flam. Gas 1A: Flammable gases – Category 1A

Aerosol 1: Aerosols – Category 1

Press. Gas (Comp.): Gases under pressure – Compressed gas

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Flam. Sol. 2: Flammable solids – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

· * Data compared to the previous version altered.

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