

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 18.07.2023 Version number 1.5 (replaces version 1.4) Revision: 18.07.2023

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

- · 1.1 Product identifier
- · Trade name: KREUL Acrylic satin varnish 150 ml, 400 ml
- · Article number: 830150, 830400
- 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

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· 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



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



corrosion

Eye Dam. 1 H318 Causes serious eye damage.



environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



Skin Irrit. 2 H315 Causes skin irritation.

STOT SE 3 H335-H336 May cause respiratory irritation. 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 G

GHS05 GHS07

GHS09

· Signal word Danger

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Hazard-determining components of labelling:

butan-1-ol

hydrocarbons C7-C9, n-alkanes, isoalkanes, cyclenes hydrocarbons C6-C7, isoalkanes, cyclenes, <5% n-hexane

hydrocarbons C9-C10, n-alkanes, isoalkanes, cyclenes, <2% aromatics

Hazard statements

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

H315 Causes skin irritation. H318 Causes serious eye damage.

H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

Toxic to aquatic life with long lasting effects. H411

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.

P251 Do not pierce or burn, even after use.

P260 Do not breathe spray.

Wear eye protection / face protection. P280

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

Immediately call a POISON CENTER/doctor. P310

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:

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: 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: 71-36-3 EINECS: 200-751-6 Index number: 603-004-00-6 Reg.nr.: 01-2119484630-38-XXXX	butan-1-ol ♦ Flam. Liq. 3, H226; ♦ Eye Dam. 1, H318; ♦ Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335-H336	20-<25%
EC number: 920-750-0 Reg.nr.: 01-2119473851-33-XXXX	hydrocarbons C7-C9, n-alkanes, isoalkanes, cyclenes Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336, EUH066	12.5-<20%
EC number: 926-605-8 Reg.nr.: 01-2119473851-33-XXXX	hydrocarbons C6-C7, isoalkanes, cyclenes, <5% n-hexane Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336	5-<10%
EC number: 927-241-2 Reg.nr.: 01-2119471843-32-XXXX	hydrocarbons C9-C10, n-alkanes, isoalkanes, cyclenes, <2% aromatics Flam. Liq. 3, H226; Asp. Tox. 1, H304; STOT SE 3, H336; Aquatic Chronic 3, H412, EUH066	5-<10%

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:

Take affected persons out into the fresh air.

In case of irregular breathing or respiratory arrest provide artificial respiration.

Seek immediate medical advice.

After inhalation:

In case of unconsciousness place patient stably in side position for transportation.

Seek medical treatment in case of complaints.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact:

Rinse opened eye for several minutes under running water. Then consult a doctor.

Remove contact lenses.

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· After swallowing:

If symptoms persist consult doctor.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

- 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.

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:

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Use neutralising agent.

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

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.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

Do not spray onto a naked flame or any incandescent material.

- · 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 chapter 1.2.

8 Exposure controls/personal protection

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

115-10-6 dimethyl ether

WEL Short-term value: 958 mg/m³, 500 ppm Long-term value: 766 mg/m³, 400 ppm

71-36-3 butan-1-ol

WEL Short-term value: 154 mg/m³, 50 ppm

Sk

- · 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:

Do not eat, drink, smoke or sniff while working.

Keep away from foodstuffs, beverages and feed.

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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:

Use suitable respiratory protective device when high concentrations are present.

Filter AX

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

Hand protection



Protective gloves

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:

Butyl rubber, BR

Recommended thickness of the material: ≥ 0.4 mm

Value for the permeation: Level ≤ 8h

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

Butvl rubber, BR

Recommended thickness of the material: ≥ 0.4 mm

Value for the permeation: Level ≤ 8h

Eye/face protection



Tightly sealed goggles

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

· General Information

Physical state According to product specification · Colour:

· Odour: Characteristic Odour threshold: Not determined. Melting point/freezing point: Undetermined

 Boiling point or initial boiling point and boiling range Not applicable, as aerosol. Not applicable.

Flammability Lower and upper explosion limit

· Lower: 1.5 Vol % · Upper: 26.2 Vol %

· Flash point: Not applicable, as aerosol.

Auto-ignition temperature: 240 °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 Density and/or relative density Density at 20 °C: 0.7 g/cm³

· Relative density Not determined. Vapour density Not determined.

9.2 Other information

Appearance:

Form: Aerosol

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(Contd. of page 4) Important information on protection of health and environment, and on safety. Ignition temperature: Product is not selfigniting. Explosive properties: Not determined. Solvent content: · Organic solvents: 95.8 % VOC (EC) 95.80 % · Solids content: 4.1 % · 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

Void

Void

Void

Void

10 Stability and reactivity

Desensitised explosives

Oxidising solids

Organic peroxides

Corrosive to metals

- · 10.1 Reactivity No further relevant information available.
- 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:		
115-10-6 dimethyl ether		
Inhalative	LC50/4h	308 mg/m³ (rat)
71-36-3 butan-1-ol		
Oral	LD50	790 mg/kg (rat)
Dermal	LD50	3,400 mg/kg (rabbit)
Inhalative	LC50/4h	8,000 mg/m³ (rat)
hydrocarbons C7-C9, n-alkanes, isoalkanes, cyclenes		
Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>2,800 mg/kg (rat)
Inhalative	LC50/4h	22 mg/m³ (rat)
hydrocarbons C9-C10, n-alkanes, isoalkanes, cyclenes, <2% aromatics		
Oral	LD50	>15,000 mg/kg (rat)
Dermal	LD50	>3,160 mg/kg (rabbit)
Inhalative	LC50/4h	>6,100 mg/m³ (rat)
· Skin corre		antion .

- Skin corrosion/irritation
- Causes skin irritation.
- · Serious eye damage/irritation

Causes serious eye damage.

- · 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.

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STOT-single exposure

May cause respiratory irritation. 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:				
	115-10-6 c	115-10-6 dimethyl ether			
ı	LC50/96h	>4,000 mg/l (fish)			
	LC50/48h	>4,000 mg/l (daphnia magna)			
	EC50/96h	155 mg/l (algae)			
ı	71-36-3 butan-1-ol				
ĺ	LC50/96h	1,376 mg/l (fish)			
Ī	hydrocarb	hydrocarbons C7-C9, n-alkanes, isoalkanes, cyclenes			
ĺ	LC50/96h	>13.4 mg/l (oncorhynchus mykiss)			
	LC50/48h	3 mg/l (daphnia magna)			
	LC50/72h	20 mg/l (pseudokirchneriella subcapitata)			

- 12.2 Persistence and degradability No further relevant information available.
- · 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
- Remark: Toxic for fish
- · Additional ecological information:
- General notes:

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

Must not reach sewage water or drainage ditch undiluted or unneutralised.

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

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

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, ENVIRONMENTALLY HAZARDOUS
	•
· IMDG	AEROSOLS (hydrocarbons, C7-C9, hydrocarbons, C6-C7), MARINE
	POLLUTANT
· IATA	AEROSOLS, flammable
	•

- · 14.3 Transport hazard class(es)
- · ADR





Class 2 5F Gases.

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(Contd. of page 6) · Label 2.1 · IMDG · Class 2.1 Gases. · Label · IATA · Class 2.1 Gases. · Label · 14.4 Packing group · ADR, IMDG, IATA not regulated · 14.5 Environmental hazards: Product contains environmentally hazardous substances: hydrocarbons C6-C7, isoalkanes, cyclenes, <5% n-hexane · Marine pollutant: Symbol (fish and tree) Special marking (ADR): Symbol (fish and tree) · 14.6 Special precautions for user Warning: Gases. Hazard identification number (Kemler code): · EMS Number: F-D S-U · Stowage Code SW1 Protected from sources of heat. SW2 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 Not applicable. · Transport/Additional information: · ADR Limited quantities (LQ) 1L Excepted quantities (EQ) Code: F0 Not permitted as Excepted Quantity · Transport category Tunnel restriction code D · Limited quantities (LQ) 1L Excepted quantities (EQ) Code: E0 Not permitted as Excepted Quantity · UN "Model Regulation": UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category

P3a FLAMMABLE AEROSOLS

E2 Hazardous to the Aquatic Environment

- 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.

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Relevant phrases

Extremely flammable gas. H220

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

H302 Harmful if swallowed.

May be fatal if swallowed and enters airways. H315 Causes skin irritation.

H304

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

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)

CAS: Chemical Abstracts service (division of the VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative Flam. Gas 1A: Flammable gases – Category 1A

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 2
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
**Data compared to the previous version altered

* Data compared to the previous version altered.