

Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006
(revised by Regulation (EC) No. 453/2010)



Print Date: 22.03.2018
Revision: 22.03.2018
Replaced Version: 17.04.2015

Product: **Transparent Glass Paint, Brush Cleaner and Thinner**

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

1.1 Identification of the substance/preparation

Trade name	Transparent Glass Paint, Brush Cleaner and Thinner
Article No.	45220
Package size	20 ml
Substance name	Ethanol
INDEX No.	603-002-00-5
EG No.	200-578-6
CAS No.	64-17-5
REACH Registration No.	A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No. 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

1.2 Use of the substance/preparation

For thinning the colours and for brush clean-up. For artists and hobby user.

1.3 Manufacturer/Supplier

	C. Kreul GmbH & Co. KG
	Carl-Kreul-Straße 2
	D-91352 Hallerndorf
Fon	0049 9545-925-0
Fax	0049 9545-925-511
E-Mail	info@c-kreul.de
Web	www.c-kreul.de

Information provided by

F&E Bettina Treiber b.treiber@c-kreul.de

1.4 Emergency information

Fon	+49 (0) 9545 925-0
Fax	+49 (0) 9545 925-511

(Monday – Thursday 8.00 – 17.00; Friday 8.00 – 15.00)

2. HAZARD IDENTIFICATION

2.1 Classification of the substance/preparation

Classification according to Regulation (EC) 1272/2008

Flam. Liq. 2 H225, Eye Irrit. 2 H319

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2.2 Labelling according to Regulation (EC) 1272/2008 Hazard pictogram and signal word of the product



Danger

Hazard-determining components of labelling

Ethanol, INDEX No. 603-002-00-5

Hazard statements

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.

European hazard statements

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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/sparks/open flames/hot surfaces. — No smoking.
P243 Take precautionary measures against static discharge.
P260 Do not breathe vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+ P338 IF IN EYES: Rinse cautiously with water for several minutes.
P313+P337 Remove contact lenses, if present and easy to do. Continue rinsing.
P361 If eye irritation persists: Get medical advice/attention.
P370+P378 Remove/Take off immediately all contaminated clothing.
P403+P233 In case of fire: Use sand, carbon dioxide or powdered extinguishing agent for extinction.
P501 Store in a well-ventilated place. Keep container tightly closed.
Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other Hazards

Vapours may form explosive mixtures with air. This material is combustible and can be ignited by heat, sparks, flames, or other sources of ignition (e.g. static electricity, pilot lights, or mechanical/ electrical equipment). Take precautionary measures against static discharges.

Results of PBT and vPvB assessment: Not applicable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

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Chemical characterization

Ethanol.

3.1 Substance related information

99 - 100% Ethanol

INDEX No. 603-002-00-5

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EG No. 200-578-6
CAS No. 64-17-5
REACH Registration No.: 01-2119457610-43-XXXX

Classification according to Regulation (EC) 1272/2008: Flam. Liq. 2 H225; Eye Irrit. 2 H319

Hazard impurities

1 - 5% Butanone

INDEX No. 606-002-00-3
EG No. 201-159-0
CAS No. 78-93-3
REACH Registration No.: 01-2119457290-43-XXXX

Classification according to Regulation (EC) 1272/2008: Flam. Liq. 2 H225; Eye Irrit. 2 H319; STOT SE 3 H336

*minimum classification

3.2 Preparation/mixture related information

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INDEX No. -
EG No. -
CAS No. -
REACH Registration No.: -

Classification according to Regulation (EC) 1272/2008: -

Full text of H- and EUH-phrases: see section 16.

4. FIRST AID MEASURES

4.1 General information

Remove contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. Immediately remove person concerned out of danger area.

After inhalation

Remove to fresh air, keep patient warm and at rest, if breathing is irregular or stopped, administer artificial respiration. If breathing is irregular or stopped, administer artificial respiration. Unconsciousness: lateral poison - contact a doctor immediately.

After skin contact

Remove contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do NOT use solvents or thinners. In case of skin reactions, consult a physician.

After eye contact

Remove contact lens. Irrigate copiously with clean, fresh water for at least 10 - 15 minutes, holding the eyelids apart and seek medical advice.

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After ingestion

If swallowed immediately drink: water, to which activated charcoal may be added. Do NOT induce vomiting. During spontaneous vomiting hold the head of the casualty low with the body in a prone position in order to avoid aspiration. Call a physician to the site of the accident in every case.

4.2 The most important acute and delayed appearing symptoms and effects

Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. See part 11.

4.3 References to medical emergency relief or special treatment

With unconsciousness: inform an emergency doctor. Further instructions see section 4.1

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Extinguishing powder, foam, water spray and carbon dioxide.
Extinguishing media which must not be used for safety reasons: Full water jet

5.2 Special risk posed by the substance or by the actual preparation, its combustion products or gases discharged

Use water spray jet to protect personnel and to cool endangered containers. Cool endangered containers with water in case of fire. It is possible to pressure formation and to burst of containers. Fire will produce dense black smoke. When product exposed to high temperatures it may produce hazardous decomposition products such as carbon monoxide and carbon dioxide, smoke and other hazards components.

5.3 Special protective equipment

In case of fire: Wear self-contained breathing apparatus. Use water spray jet to protect personnel and to cool endangered containers. Beware of reignition. Do not allow the quenching water into the sewage system. Dispose fire debris and contaminated fire fighting water in accordance with official regulations.

5.4 Additional information

Fire class: B. Compare section 3, 7, 8 and 10.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions

Wear protective gloves/protective clothing/eye protection/face protection. Remove ignition sources. Provide for sufficient ventilation. Do NOT inhale the vapour. Remove persons to safety.

6.2 Environmental precautions

Remove persons to safety. Take up with a liquid absorbing material and proceed according to the waste disposal regulations. Do not empty into drains or watercourses. If the product

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contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations. Further instructions see section 6.3.

6.3 Methods for cleaning up/collecting

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Clean preferably with a detergent; avoid use of solvents. Further instructions see part 10.

6.4 Additional information

Further instructions see section 7, 8 and 10.

7. HANDLING AND STORAGE

7.1 Information for safe handling

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Provide adequate ventilation. Never use pressure to empty: container is not a pressure vessel. Do not leave vessels/containers open. Always keep in containers of same material as the original one. Additionally, the product should only be used in areas from which all-naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Preparation may charge electro statically: always use earthing leads when transferring from one container to another. Operators should wear antistatic footwear and clothing and floors should be of the conducting type. Use only antistatic equipped (spark-free) tools. Comply with the health and safety at work laws (TRGS 500). Avoid skin and eye contact. Avoid inhalation of vapour and spray mist. Smoking, eating and drinking should be prohibited in application area. See protective measures under point 8.

Precautions against fire and explosion

Highly flammable. Keep away from sources of ignition - No smoking. Danger of inflammation in cause of weldings-works at empty containers. Vapours may form explosive mixtures with air. Take precautionary measures against static discharges. Usual measures for fire prevention.

Fire class: B.

7.2 Conditions for safe storage, including incompatibilities Information about storage conditions

Store between 5 and 30 °C in a dry, well-ventilated place away from sources of heat and direct sunlight. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

Hints on joint storage

Only substances of the same storage class should be stored together. Collocated storage with the following substances is prohibited: pharmaceuticals, foods, and animal feeds including additives, infectious, radioactive und explosive substances, gases, other explosive substances of storage class 4.1A, flammable solid substances or desensitized substances of storage class 4.1B, spontaneously flammable substances, substances liberating flammable gases in contact with water, strongly oxidizing substances of storage class 5.1A, ammonium nitrate and

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preparations containing ammonium nitrate, organic peroxides and self reactive substances and non combustible acutely toxic substances of storage class 6.1B. Under certain conditions the collocated storage with the following sub-stances is permitted (For more details see [TRGS 510](#)): oxidizing substances of storage class 5.1B, noncombustible toxic or chronically acting substances of storage class 6.1D and combustible solids of storage class 11. The substance should not be stored with substances with which hazardous chemical reactions are possible.

Requirement for storage rooms and vessels

Store between 5 and 30 °C in a dry, well-ventilated place away from sources of heat and direct sunlight. No smoking. Keep container tightly closed. Containers, which are opened, must be carefully resealed and kept upright to prevent leakage. Although the storage and use of this product is not subject to specific statutory requirements, observation of the principles of the Highly Flammable Liquids and Liquefied Petroleum Gases Regulations as appropriate will be seen as good industrial practice in meeting the general duties of the Health and Safety at Work Act. Observe label precautions.

Additional information

Storage class (VCI): 3A Flammable liquid substances

7.3 Specific uses

See section 1.2.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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8.1 Components with critical values that require monitoring at the workplace (exposure limits)

Ethanol; CAS No. 64-17-5

Specification: AGW
Value: SMW: 500 ml/m³ (ppm), 960 mg/m³; KZW: 1000 ppm , 1920 mg/m³
Peak limitation: 2 (II)
Toxic to reproduction: Y - a risk of reproductive effects needs not to be feared if the occupational exposure limit value (AGW) and the biological limit value (BGW) is kept
Remark: DFG, EU

Butanone; CAS No. 78-93-3

Specification: AGW
Value: SMW: 200 ml/m³ (ppm) , 600 mg/m³; KZW: 200 ppm , 600 mg/m³
Peak limitation: 1 (I)
Toxic to reproduction: Y - a risk of reproductive effects needs not to be feared if the occupational exposure limit value (AGW) and the biological limit value (BGW) is kept
Remark: DFG, EU, H

DNEL/DMEL-Values

Ethanol; CAS-Nr. 64-17-5

Oral DNEL long-term exposure – systemic effects 87 mg/kg general population

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Dermal DNEL long-term exposure – systemic effects	206 mg/kg bw/d	general population
	343 mg/kg bw/d	worker
Inhalativ DNEL long-term exposure – systemic effects	114 mg/m ³	general population
	950 mg/m ³	worker
DNEL acute – local effects	950 mg/m ³	general population
	1900 mg/m ³	worker

Methylethylketon; CAS No. 78-93-3

Oral DNEL long-term exposure – systemic effects	31 mg/kg	general population
Dermal DNEL long-term exposure – systemic effects	412 mg/kg bw/d	general population
	1000 mg/kg bw/d	worker
Inhalativ DNEL long-term exposure – systemic effects	106 mg/m ³	general population
	600 mg/m ³	worker

PNEC-Values

Ethanol; CAS-Nr. 64-17-5

STP	580 mg/l	(environmental)
freshwater	0,96 mg/l	(environmental)
marine water	0,79 mg/l	(environmental)
sediment freshwater	3,6 mg/kg dry weight	(environmental)
soil	0,63 mg/kg dry weight	(environmental)

Methylethylketon; CAS-Nr. 78-93-3

STP	709 mg/l	(environmental)
freshwater	55,8 mg/l	(environmental)
marine water	55,8 mg/l	(environmental)
sediment freshwater	284,7 mg/kg dry weight	(environmental)
sediment marine water	284,7 mg/kg dry weight	(environmental)
soil	22,5 mg/kg dry weight	(environmental)

8.2 Occupational exposure controls

Technical measures and the application of suitable working methods have precedence before the application of personal protective equipment. Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

Suitable judgement methods of the examination of the effectiveness of the grievied preventive measures enclose measuring-technical and non-technical inquiry methods like they in the technical rules for danger materials (TRGS) 402.

Personal protective equipment

Do not eat or drink during work – No smoking. Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Avoid contact with eyes and skin. Remove soiled or soaked clothing immediately.

Respiratory protection

Take breathing protection measures (see also instruct to avoid accidents). Breathing protection equipment required in inadequately ventilated places and during spraying.

Respiratory filter (gas): A1 (brown) until 1000 ml/m³ (ppm)

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A2 (brown) until 5000 ml/m³ (ppm)

A3 (brown) until 10000 ml/m³ (ppm)

Details are to be inferred "from the rules for the use of respiratory protective devices" (BGR 190 (German regulation)).

Skin protection

Avoid contact with skin. Use protective gloves (EN 374). Solvent-resistant protective gloves must be worn. The glove material must be sufficiently impermeable and resistant to the substance. Check the tightness before wear. Gloves should be well cleaned before being removed, then stored in a well ventilated location. Textile or leather gloves are completely unsuitable. Pay attention to skin care.

Butyl rubber - Butyl (0,5 mm)	Permeation time \geq 8 hours
Fluoro carbon rubber - FKM (0,4 mm)	Permeation time \geq 8 hours

Splash guard Polychloroprene - CR (0,5 mm)	Permeation time 2 hours
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The times listed are suggested by measurements taken at 22 °C and constant contact. Temperatures raised by warmed substances, body heat, etc. and a weakening of the effective layer thickness caused by expansion can lead to a significantly shorter breakthrough time. In case of doubt contact the gloves' manufacturer. A 1.5-times increase / decrease in the layer thickness doubles / halves the breakthrough time. This data only applies to the pure substance. Transferred to mixtures of substances, these figures should only be taken as an aid to orientation.

Eye protection

Avoid contact with eyes. Use safety glasses conform 166:2001.

Body protection

Personnel should wear antistatic clothing's made of natural fibre or of high temperature resistant synthetic fibre. All parts of the body should be washed after contact. Light protective clothing.

Limitation and supervision of the environmental exposition

See section 6 and 7.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 General information

Form:	fluid
Colour:	colourless
Odour:	alcohol

9.2 Relevant safety data

Flashpoint:	approx.. 12 °C	DIN EN 22719
Viscosity:	< 30 s	ISO 2431
Density: (20 °C)	approx.. 0,79 g/cm ³	DIN 53217

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Explosive limits:

Lower / Upper: 3,5 Vol.-% / 15 Vol.-%

Ignition temperature: 425 °C

Vapour pressure: 59 mbar (20 °C)

pH-value: not applicable

Solubility in water: soluble

9.3 Additional information

No other physical-chemical data available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions. See section 7.

10.2 Chemical stability

If handled properly then product has chemical stability.

10.3 Possible dangerous reactions

None, if handled according to order. Further instructions see section 10.1 and 10.2.

10.4 Conditions to avoid

Only use the material in places where open light, fire and other flammable sources can be kept away.

10.5 Incompatible materials

See section 10.1.

10.6 Hazardous decomposition products

When product exposed to high temperatures, it may produce hazardous decomposition products such as carbon monoxide and carbon dioxide, smoke and other hazardous components.

11. TOXICOLOGICAL INFORMATION

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11.1 Information on toxicological effects

Acute toxicity

Ethanol; CAS-Nr. 64-17-5

	Value	Species	Method	Source
LD _{50, oral}	10470 mg/kg	Rat	OECD 401	ECHA
LC _{50, inh., 4h, steam}	124,7 mg/l	Rat	OECD 403	ECHA
Remark	Substance/product listed in Regulation (EC) 1272/2008.			

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Butanone; CAS No. 78-93-3

	Value	Species	Method	Source
LD _{50, oral}	2740 mg/kg	Rat		Toxicology and Applied Pharmacology Vol. 19, Pg. 699, 1971
LD _{50, dermal}	6480 mg/kg	Rabbit	-	Shell Chemical Company Vol. MSDS-5390-4, Toxicological Data, compiled by the National Institute of Health (NIH), USA, selected and distributed by Technical Database Services (TDS), New York, 2009
Remark	Substance/product listed in Regulation (EC) 1272/2008.			

Primary irritant effect after inhalation

Exposure to component solvents vapour concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. The kinetics of pulmonary intake were examined using various Ethanol concentrations (80 - 10000 ppm) and ventilation rates (7 - 25 l/min). For the usual ventilation rates, equilibrium concentrations were established within 2 hours. Then, the Ethanol levels in the blood correlated in a linear manner with the Ethanol concentration in the working atmosphere. Exposure to 80, 390 and 790 ppm Ethanol on average led to 0.23, 0.85 and 2.18 mg Ethanol/l blood, respectively. However, the individual range of variation was relatively high (+/- 53, 20 and 26 %, respectively). It was estimated from the whole data material that about 60 % of the amount of Ethanol inhaled is retained in the lung. Ethanol was shown to be of minor toxicity. Odour is noticeable at a level of 80 ppm. High exposures can cause cough and lacrimation. It was derived from long-term occupational experience that at concentrations up to 5000 ppm Ethanol no local irritation and up to 1000 ppm no systemic effects appear. In more recent tests on volunteers exposed to 1000 ppm, no exposure-relevant changes of examined performance parameters (concerning reaction time, choice reaction, short-term memory) were found and no complaints were felt. For hourly varying exposures of 100 and 1900 ppm, the high concentration caused abnormal perception (annoyance, minor irritation) which, however, were rapidly reversible. First effects to the CNS are only to be expected through far higher concentrations producing blood levels of about 200 mg Ethanol/l. Asthmatics exposed to aerosolized Ethanol showed in isolated cases severe constriction of the airways (decrease of the FEV by 20 - 40 %), however, an allergic genesis cannot be derived from it.

on the skin

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

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on the eyes

Causes serious eye irritation.

after ingestion

Ethanol is almost completely absorbed from the gastrointestinal tract, the main part within the first hour. However, certain factors can delay the absorption: level of stomach contents, fat content of the food. Oxidation of Ethanol can already take place in the stomachal mucous membranes to a minor extent. For symptoms see primary irritant effect after inhalation. Further instructions see primary irritant effect after inhalation.

Sensitization

There are no data available on the preparation itself.

Chronic

Following repeated contact, liquid Ethanol makes the skin dry and can cause irritative inflammation. Some case reports describe contact dermatitis acquired by occupational or non-occupational contact. An allergic genesis and Ethanol as the provoking agent were shown by means of patch tests. The skin reactions appeared in some cases even following consumption of alcoholic beverages (in addition erythema, aphthous lesions and burning sensation to the stomatic mucous membranes). Some case reports describe generalized allergic skin reactions (urticaria) which were caused by Ethanol. Cross reactions to other primary or secondary alcohols were also reported. Considering the ubiquitous possibilities of contact, allergic reactions to Ethanol are all in all very rare, however. No data is available on the consequences of long-term inhalative exposure to Ethanol despite numerous working places with possibilities of exposure. Chronic consumption of large amounts of alcoholic beverages can produce toxic effects in almost all organ systems. The liver is primarily concerned. Damage first becomes manifest as adiposis and can progress via necrotic and fibrotic stages through to hepatic cirrhosis. When Ethanol is regularly taken in, 20 - 40 g/d for women and 60 - 80 g/d for men are assumed to be threshold doses for the initiation of toxic damage to the liver.

11.2 Additional toxicological information

The product is classified according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

12. ECOLOGICAL INFORMATION

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12.1 Ecotoxicity

Ethanol; CAS No. 64-17-5

	Value	Species	Method	Source
LC ₅₀ , fish, 96h	14,2 mg/l	Pimephales promelas	US EPA E03-05	ECHA
LC ₅₀ , daphnia, 48h	5012 mg/l	Ceriodaphnia dubia	ASTM E729-80	ECHA
LC ₅₀ , daphnia, 9d	454 mg/l	Daphnia magna		ECHA
LC ₅₀ , daphnia, 10d	1806 mg/l	Ceriodaphnia dubia		ECHA

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ErC ₅₀ , algae, 96h	675 mg/l	Chlorella vulgaris	OECD 201	ECHA
NOEC _{fish} , 120d	250 mg/l	Danio rerio	OECD 212	ECHA
NOEC _{Daphnia magna} , 10d	9,6 mg/l	Ceriodaphnia dubia		ECHA
ErCX _{10%} , algae, 3d	11,5 mg/l	Chlorella vulgaris	OECD 201	ECHA
ErCX _{10%} , algae, 4d	86 mg/l	Chlorella vulgaris	OECD 201	ECHA
Remark	-			

Butanone; CAS No. 78-93-3

	Value	Species	Method	Source
LC ₅₀ , fish, 96h	2993 mg/l	Pimephales promelas	OECD 203	ECHA
EC ₅₀ , daphnia, 48h	308 mg/l	Daphnia magna	OECD 202	ECHA
EC ₅₀ , algae, 96h	2029 mg/l	Pseudokirchneriella subcapitata	OECD 201	ECHA
ErC ₅₀ , algae, 72h	1972 mg/l	Pseudokirchneriella subcapitata	OECD 201	ECHA
ErC ₅₀ , algae, 48h	1888 mg/l	Pseudokirchneriella subcapitata	OECD 201	ECHA
ErCX _{10%} , algae, 72h	1289 mg/l	Pseudokirchneriella subcapitata	OECD 201	ECHA
Remark	-			

12.2 Persistence/degradability

Readily biodegradable.

Ethanol; CAS No. 64-17-5

	Degradation rate	Time period	Method	Source
Oxygen consumption	84 %	20 d	-	ECHA
Remark	-			

Butanone; CAS No. 78-93-3

	Degradation rate	Time period	Method	Source
Oxygen consumption	98 %	28 d	OECD 301D	ECHA
Remark	-			

12.3 Bioaccumulative potential

Ethanol; CAS No. 64-17-5

n-octanol-water partition coefficient: -0,77

Butanone; CAS No. 78-93-3

n-octanol-water partition coefficient: 0,3 (pH 7, 40°C)

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12.4 Mobility

There are no data available.

12.5 Results of PBT and vPvP assessment

There are no data available.

12.6 Other adverse effects

There are no data available.

12.7 Further ecological information

Do not discharge into the drains/surface waters/groundwater.
Water hazard class: WGK 1 slightly hazardous for water

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Send to a hazardous waste incinerator facility under observation of official regulations. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Recommendation

Disposal must be made according to official regulations.

13.2 European waste code number in accordance with AAV

EWC No.: 08 01 11 waste paint and varnish containing organic solvents or other dangerous substances

EWC No.: 20 01 13 Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions, solvents

13.3 Packaging

Contaminated packaging

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 in the same manner as the medium.

EWC No. 15 01 10 packaging containing residues of or contaminated by dangerous substances

Non-contaminated packages

EWC No.: 15 01 02 plastic packaging

EWC No.: 15 01 07 glass packaging

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14. TRANSPORT INFORMATION

14.1 Land transport ADR/RID and GVS/GGVE



Class: 3 Flammable liquids
Kemler-Code: 33
UN No.: 1170
Packaging group: II
Label: 3
Special marking: -
Proper shipping name: 1170 – Ethanol
Classification-Code: F1
Limit: 1 L
Tunnel restriction code: 2 (D/E)

14.2 Maritime transport IMDG/GGVSea



Class: 3
UN No.: 1170
Label: 3
Packaging group: II
EmS-No.: F-E, S-D
Marine pollutant: no
Proper shipping name: Ethanol

14.3 Air transport ICAO-TI and IATA-DGR



ICAO/IATA Class: 3
UN no.: 1170
Label: 3
Packaging group: II
Proper shipping name: Ethanol

14.3 Remarks

Product contains environmentally hazardous substances: -

Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006
(revised by Regulation (EC) No. 453/2010)



Print Date: 22.03.2018
Revision: 22.03.2018
Replaced Version: 17.04.2015

Product: **Transparent Glass Paint, Brush Cleaner and Thinner**

15. REGULATORY INFORMATION

15.1 European Regulation

Chemical Safety Assessment: For this substance a chemical safety assessment is not required.

15.2 National Regulations

Statutory order on hazardous incidents (StörfallV): Annex I, Nr. 6, 9b
Regulation on inflammable liquids: VbF-Class: B
Emission control act ("TA-Luft"): 3.1.7 Class III
Water hazard class: WGK 1 slightly hazardous for water (according VwVwS)

15.3 Additional information

The product is classified according to the EEC directives and the Ordinance on Hazardous Materials (GefStoffV).

If bottle \leq 125 ml then the following H- and P-phrases are not necessary: H225, H319, P101, P102, P210, P243, P260, P280, P361, P305+351+338, P313+337, P370+P378, P403+P233, P501.

Please check local regulations.

Volatile organic compounds (Swiss) 100 %; 16 g/20ml; 0,79 kg/l

The advertised use (section 1) is not subject of the Directive 2004/42/EC.

16. OTHER INFORMATION

16.1 Changes compared with the last version

The last version was all changed and revised completely. Alterations to the previous edition are marked in the right-hand margin.

16.2 Literature reference and data source

Regulation (EC) 1999/45, last changed by Regulation (EC) 1907/2006
Regulation (EC) 67/548, last changed by Regulation (EC) 2009/2
REACH Regulation (EC) 1907/2006, last changed by Regulation (EC) 453/2010
Regulation (EC) 1272/2008, last changed by Regulation (EC) 790/2009

Internet

<http://www.baua.de>
<http://www.arbeitssicherheit.de>
<http://www.gischem.de>

16.3 Full text of H- and R-phrases appearing in section 2 and 3: **According to Regulation (EC) 1272/2008**

Flam. Liq. 2 H225	Highly flammable liquid and vapour.
Eye Irrit. 2 H319	Causes serious eye irritation.
STOT SE 3 H336	May cause drowsiness or dizziness.

EUH – statements

-

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Methods according to article 9 of the order (EC) No. 1272/2008 for the assessment of the information for the purpose of the classification were used:

Classification according to Regulation (EC) 1272/2008, Annex VII (conversion table)

16.4 Abbreviations and acronyms

ADR:	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
BImSchV:	Order for the realisation of the Federal Immission Protection Law
CAS:	Chemical Abstracts Service
DIN:	Norm of the German institute of standardization
EC:	Effective concentration
EC50:	Effective concentration, 50 percent
EG:	European Community
EINECS:	European Inventory of Existing Commercial Chemical Substances
EN:	European Standard
GefStoffV:	Ordinance on Hazardous Substances, Germany
GHS:	Globally Harmonized System of Classification and Labelling of Chemicals
IATA:	International Air Transport Association
IMDG:	International Maritime Code for Dangerous Goods
LC50:	Lethal concentration, 50 percent
LD50:	Lethal dose, 50 percent
Log K_{ow}:	n-octanol-water partition coefficient
OECD:	Organisation for Economic Co-operation and Development
PBT:	Persistent, bioaccumulateable, toxically
RID:	Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
TRGS:	Technical rules for danger materials
UN:	United Nations (Vereinte Nationen)
VOC:	Volatile Organic Compounds
vPvB:	very much persistent and very bioaccumulateable
VwVwS:	Administrative regulation of hazardous to waters materials
WGK:	Water hazardous class

16.5 Department issuing safety data sheet

Laboratory, Mrs. Dipl.-Ing. Treiber, b.treiber@c-kreul.de.

16.6 Additional information

The data is based on our present knowledge. The data correspond to the national and EEC legislation. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

It is not permitted to use the product for any other application mentioned in chapter 1 except with a written permission. The user is responsible for the compliance with all valid legal regulation.

This safety data sheet is only valid for Transparent Glass Paint Brush Cleaner and Thinner. It's not valid for other products placed in the according sales displays or sets.