

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 19.07.2019

Version number 1

Revision: 19.07.2019

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

1.1 Product identifier

Trade name: Acrylic Line Marking Paint

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

Relevant identified uses:

Aerosol marking paint for spot marking of surfaces prior to surveying, earth works, building construction or road construction.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

One Stop Sourcing & Supply Co
Homefield Road, Haverhill, Suffolk, CB9 8QP
Tel: 01440 712 060
E-mail: chunt@osscc.com

1.4 Emergency telephone number(s):

NHS Direct: 111

National Poisons Information Service (NPIS): 0121 507 4123 (healthcare professionals only).

Ireland - National Poisons Information Centre: 01 837 9964 or 01 809 2566 (healthcare professionals only).

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Aerosol 2 H223-H229 Flammable aerosol. Pressurised container: May burst if heated.

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 CLP regulation.

Hazard pictograms:



GHS02 GHS07

Signal word: Warning

Hazard-determining components of labelling:

acetone

Hazard statements:

H223-H229 Flammable aerosol. Pressurised container: May burst if heated.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Precautionary statements:

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.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

P312 Call a POISON CENTER/doctor if you feel unwell.

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P337+P313 If eye irritation persists: Get medical advice/attention.
 P405 Store locked up.
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
 P501 Dispose of contents/container in accordance with local/regional/national/international 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.**SECTION 3: Composition/information on ingredients****3.2 Mixtures****Description:** Mixture consisting of the following components.

Hazardous components:		
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0	Butane Flam. Gas 1, H220; Press. Gas C, H280	30-40%
CAS: 67-64-1 EINECS: 200-662-2 Index number: 606-001-00-8	acetone Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	15-25%
CAS: 123-86-4 EINECS: 204-658-1 Index number: 607-025-00-1	n-butyl acetate Flam. Liq. 3, H226; STOT SE 3, H336	5-15%
CAS: 141-78-6 EINECS: 205-500-4 Index number: 607-022-00-5	ethyl acetate Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	5-10%

Additional information:

For the wording of the listed hazard phrases refer to section 16.

It contains dimethyl ether

SECTION 4: First aid measures**4.1 Description of first aid measures****General information:**

Symptoms of poisoning may even occur after several hours; therefore, medical observation for at least 48 hours after the accident.

After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

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

After skin contact: Immediately wash with water and soap and rinse thoroughly.**After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing: 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.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: Water spray (large fires only), foam, dry chemical or carbon dioxide.

For safety reasons unsuitable extinguishing agents: Water with full jet.

5.2 Special hazards arising from the substance or mixture

No further relevant information available.

5.3 Advice for firefighters

Protective equipment: Mouth respiratory protective device.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions

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

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

6.3 Methods and material for containment and cleaning up

Do not flush with water or aqueous cleansing agents

Ensure adequate ventilation.

Dispose contaminated material as waste according to item 13.

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.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles:

Store in a cool location.

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.

Do not seal receptacle gas tight.

Store in cool, dry conditions in well-sealed receptacles.

Protect from heat and direct sunlight.

7.3 Specific end use(s): No further relevant information available.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

67-64-1 acetone

WEL (Great Britain)	Short-term value: 3620 mg/m ³ , 1500 ppm Long-term value: 1210 mg/m ³ , 500 ppm
IOELV (EU)	Long-term value: 1210 mg/m ³ , 500 ppm

123-86-4 n-butyl acetate

WEL (Great Britain)	Short-term value: 966 mg/m ³ , 200 ppm Long-term value: 724 mg/m ³ , 150 ppm
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141-78-6 ethyl acetate

WEL (Great Britain)	Short-term value: 1468 mg/m ³ , 400 ppm Long-term value: 734 mg/m ³ , 200 ppm
IOELV (EU)	Short-term value: 1468 mg/m ³ , 400 ppm Long-term value: 734 mg/m ³ , 200 ppm

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

8.2 Exposure controls

Personal protective equipment

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

The usual precautionary measures are to be adhered to when handling chemicals.

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:

Not necessary if room is well-ventilated.

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

e.g. filter class A/P2

Protection of hands:



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.

Select the glove material based on a consideration of the penetration times, rates of diffusion and the degradation.

In case of contact with spray dust protective gloves made of butyl should be used (min. 0.4 mm thick), e.g. KCL Camatril, article no. 898 or similar products

Material of gloves: Butyl rubber, BR

Penetration time of glove material:

The exact break through time must be determined by the manufacturer of the protective gloves.

Butyl rubber gloves with a thickness of 0.4 mm are resistant to:

Acetone: 480 min

Butyl acetate: 60 min

Ethyl acetate: 170 min

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Safety glasses with side-shields (EN 166).

Body protection: Protective work clothing.**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties****General Information****Appearance:****Form:** Viscous liquid**Odour:** Solvent-like**Odour threshold:** Not determined.**pH-value:** Not determined.**Melting point/freezing point:** <-20 °C**Initial boiling point and boiling range:** >60 °C**Flash point:** Not determined.**Flammability (solid, gas):** Flammable.**Ignition temperature:** Not determined.**Decomposition temperature:** Not determined.**Explosive properties:** Not determined.**Explosion limits:****Lower:** Not determined.**Upper:** Not determined.**Oxidising properties:** Not determined.**Vapour pressure:** Not determined.**Density:** Not determined.**Relative density at 20 °C:** 1.05-1.15**Vapour density:** Not determined.**Evaporation rate:** Not applicable.**Solubility in / Miscibility with****Water:** Insoluble.**organic solvents:** Re-dispersible in aromatic solvents or ketones.**Partition coefficient: n-octanol/water:** Not determined.**Viscosity:****Dynamic:** Not determined.**Kinematic at 20 °C:** 20-25 s (FORD-4 CUP)**9.2 Other information**

No further relevant information available.

SECTION 10: Stability and reactivity**10.1 Reactivity** No further relevant information available.

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Trade name: Acrylic Line Marking Paint**10.2 Chemical stability****Thermal decomposition / conditions to be avoided:**

No decomposition if used and stored 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 further relevant information available.**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity** Based on available data, the classification criteria are not met.

LD/LC50 values:		
106-97-8 Butane		
Inhalative	LC50/4h	658 mg/L (Rat)
123-86-4 n-butyl acetate		
Oral	LD50	13,100 mg/kg (Rat)
Inhalative	LC50/4h	9480 mg/L (Rat)
141-78-6 ethyl acetate		
Oral	LD50	5,620 mg/kg (Rabbit)
Inhalative	LC50/8h	5760 mg/L (Rat)
67-64-1 acetone		
Oral	LD50	5,800 mg/kg (Rat)
Dermal	LD50	20,000 mg/kg (Rabbit)

Additional Information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Mixtures as issued in the latest version: Irritant, Vapours have narcotic effect.

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.**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):****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.**SECTION 12: Ecological information****12.1 Toxicity**

Aquatic toxicity:	
123-86-4 n-butyl acetate	
LC50/96h	18 mg/L (Fish)
LC50/72h	280 mg/L (Algae)
EC50/48h	44 mg/L (Daphnia Magna)

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Trade name: Acrylic Line Marking Paint**12.2 Persistence and degradability****Dimethyl ether:**Half-life H₂O surface water: 2.6-30 hr

Koc: 14

Log Kow (Sangster 1997): 0.1

Water solubility: 35300 g/L

Low persistence in water / soil

Low bioaccumulation

High mobility

Bio-concentration factor (BCF): 1.7
processes Abiotic: RxnOH***n-Butyl acetate:**Half-life H₂O surface water: 178 - 27156 hr

Koc: ~200

Low persistence in water / soil.

Half-life air: 144 hr

Henry's atm: m³ /mol: 3.20E-04

Medium persistence in air

Low bioaccumulation

Moderate mobility

log Kow (Prager 1995): 1.82

log Kow (Sangster 1997): 1.78

Biological oxygen demand (BOD 5) if unstated: 0.15-1.02,7%;

Chemical oxygen demand (COD): 78%

Theoretical oxygen demand (ThOD): 2.207;

Bio-concentration factor (BCF) : 4-14.

12.3 Bioaccumulative potential No further relevant information available.**12.4 Mobility in soil** The substance has low mobility in soil.**Ecotoxicological effects:****Remark:****n-Butyl acetate:****Environmental Fate:**Terrestrial Fate : Butyl acetate is expected to have moderate mobility in soil.

Volatilization of n-butyl acetate is expected from moist and dry soil surfaces. n-Butyl acetate may be biodegrade in soil.

Aquatic Fate: n-Butyl acetate is not expected to adsorb to suspended solids and sediment in water. Butyl acetate is expected to volatilize from water surfaces. Estimated half-lives for a model river and model lake are 7 and 127 hours respectively. Hydrolysis may be an important environmental fate for this compound.Atmospheric Fate: n-Butyl acetate is expected to exist solely as a vapour in the ambient atmosphere. Vapour-phase n-butyl acetate is degraded in the atmosphere by reaction with photochemically- produced hydroxyl radicals; the half-life for this reaction in air is estimated to be about 4 days.Ecotoxicity: It is expected that bioconcentration in aquatic organisms is low. n-Butyl acetate is not acutely toxic to fish specifically, island silverside, bluegill sunfish, fathead minnow, and water fleas and has low toxicity to algae.

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Trade name: Acrylic Line Marking Paint**Other information:****Dimethyl ether**

Most ethers are very resistant to hydrolysis, and the rate of cleavage of the carbon-oxygen bond by abiotic processes is expected to be insignificant. Direct photolysis will not be an important removal process since aliphatic ethers do not absorb light at wavelengths >290 nm. DO NOT discharge into sewer or waterways.

Additional environmental information:**General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

12.5 Results of PBT and vPvB assessment**PBT:** Not applicable.**vPvB:** Not applicable.**12.6 Other adverse effects** No further relevant information available.**SECTION 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.

European waste catalogue

08 01 11*: waste paint and varnish containing organic solvents or other dangerous substances

15 01 04: metallic packaging

15 01 11*: metallic packaging containing a dangerous solid porous matrix (for example, asbestos), including empty pressure containers

Uncleaned packaging:**Recommendation:**

Disposal must be made in accordance with official regulations.
Packaging that may not be cleansed must be disposed of in the same manner as the product.

SECTION 14: Transport information**14.1 UN Number****ADR, IMDG, IATA**

UN1950

14.2 UN proper shipping name**ADR**

1950 AEROSOLS

IMDG

AEROSOLS

IATA

AEROSOLS, flammable

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

2 5F Gases.

Label

2.1

IMDG, IATA**Class**

2.1

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Label	2.1
14.4 Packing group ADR, IMDG, IATA	Not applicable.
14.5 Environmental hazards	Not applicable.
14.6 Special precautions for user	Warning: Gases.
Danger code (Kemler):	-
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 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
Tunnel restriction code:	D
IMDG	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity

SECTION 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 are 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

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

Other regulations, limitations and prohibitive regulations

Water hazard class 1 (Self-assessment): slightly hazardous for water.

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

SECTION 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.

H280 Contains gas under pressure; may explode if heated.

H319 Causes serious eye irritation.

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H336 May cause drowsiness or dizziness.

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)

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Flam. Gas 1: Flammable gases – Category 1

Aerosol 2: Aerosols – Category 2

Press. Gas C: Gases under pressure – Compressed gas

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

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

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