

SAFETY DATA SHEET

according to EC- directive 1907/2006/EC



Product Trade Name: Metroglue

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Revision Date 20/11/2016

Version 4

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

Product Identifier

Product Name Metroglue Cyanoacrylate Adhesive

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

For use in dental applications. Use of substance / mixture: Adhesives, sealants.

Details of the supplier of the safety data sheet

Supplier Metrodent Limited
Lowergate Works, Lowergate
Paddock, Huddersfield
United Kingdom
+44 1484 461616
sales@metrodent.com

Emergency contacts

Office Hours Metrodent Limited
+44 1484 461616

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

This substance is classified as hazardous according to GHS

Classification under CHIP: Xi: R36/37/38

Classification under CLP: STOT SE 3: H335; Eye Irrit. 2: H319; Skin Irrit. 2: H315; -: EUH202

Most important adverse effects: Irritating to eyes, respiratory system and skin.

Label elements under CLP:

Hazard statements: H315: Causes skin irritation.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

EUH202: Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.

Signal words: Warning

Hazard pictograms: GHS07: Exclamation mark



Precautionary statements: P261: Avoid breathing dust/fumes/gas/mist/vapours/spray.

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

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+351+338: 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 or doctor if you feel unwell

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Label elements under CHIP:

Hazard symbols: Irritant.



Risk phrases: R36/37/38: Irritating to eyes, respiratory system and skin.

Safety phrases: S2: Keep out of the reach of children.

S46: If swallowed, seek medical advice immediately and show this container or label.

Precautionary phrases: Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.

Other Hazards: PBT: This product is not identified as a PBT/vPvB substance.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Hazardous ingredients:

ETHYL-2-CYANOACRYLATE

EINECS 230-391-5

CAS 7085-85-0

CHIP Classification Xi: R36/37/38

CLP Classification Eye Irrit. 2: H319; STOT SE 3: H335;

Skin Irrit. 2: H315

Percent >90%

Non-classified ingredients:

HYDROQUINONE

EINECS 204-617-8

CAS 123-31-9

CHIP Classification Xn: R40; Xn: R68; Xn: R22; Xi:

R41; Sens.: R43; N: R50

CLP Classification Carc. 2: H351; Muta. 2: H341; Acute

Tox. 4: H302; Eye Dam. 1: H318; Skin

Sens. 1: H317; Aquatic Acute 1: H400

Percent <1%

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4. FIRST AID MEASURES

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Wash out mouth with water. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

Most important symptoms and effects, both acute and delayed

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Indication of any immediate medical attention and special treatment needed

Immediate / special treatment: Eye bathing equipment should be available on the premises.

5. FIRE-FIGHTING MEASURES

Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes.

Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.

Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

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Reference to other sections: Refer to section 8 of SDS.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area.
Do not handle in a confined space. Avoid the formation or spread of mists in the air.

Conditions for safe storage, including any incompatibilities

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed.

Suitable packaging: Polyethylene.

Specific end use(s): No data available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Hazardous ingredients:

ETHYL-2-CYANOACRYLATE

Workplace exposure limits:

State	UK
8 hour TWA	-
15 min. STEL	UK - 1.5 mg/m ³

Respirable dust

8 hour TWA	-
15 min. STEL	-

DNEL/PNEC Values

Metroglue

Type	Exposure	Value	Population	Effect
DNEL	Inhalation	9.25 mg/m ³	Workers	Local
DNEL	Inhalation	9.25 mg/m ³	Workers	Systemic
DNEL	Inhalation	9.25 mg/m ³	General Population	Local
DNEL	Inhalation	9.25 mg/m ³	General Population	Local

Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Protective gloves.

Eye protection: Safety glasses. Ensure eye bath is to hand.

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Skin protection: Protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

State:	Liquid		
Colour:	Colourless		
Odour:	Characteristic odour		
Evaporation rate:	No data available.		
Oxidising:	No data available.		
Solubility in water:	Reacts with water.		
Also soluble in:	Acetone.		
Viscosity:	Viscous		
Kinematic viscosity:	100-200		
Viscosity test method:	Cone and Plate @ 25°C (CPs)		
Boiling point/range°C:	> 149	Melting point/range°C:	No data available.
Flammability limits %: lower:	No data available.	Upper:	No data available.
Flash point°C:	80-93.4	Part.coeff. n-octanol/water:	No data available.
Autoflammability°C:	450	Vapour pressure:	<700 mbar
Relative density:	1.05	pH	Not Applicable
VOC g/l:	<20		
Other information			
Other information:	No data available.		

10. STABILITY AND REACTIVITY

Stability and reactivity

Reactivity: Stable under recommended transport or storage conditions.

Chemical stability

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.
Decomposition may occur on exposure to conditions or materials listed below.

Conditions to avoid

Conditions to avoid: Moist air. Heat.

Incompatible materials

Materials to avoid: Water. Strong oxidising agents. Strong acids.

Hazardous decomposition products

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Haz. decomp. products: In combustion emits toxic fumes.

11. TOXICOLOGICAL INFORMATION

Toxicity values:

Route	Species	Test	Value	Units
DERMAL	RBT	LD50	>2000	mg/kg
ORAL	RAT	LD50	>5000	mg/kg

Hazardous ingredients:

ETHYL-2-CYANOACRYLATE

ORL	RAT	LD50	>5	ml/kg
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Relevant effects for mixture:

Effect	Route	Basis
Irritation	OPT INH DRM	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

12. ECOLOGICAL INFORMATION

Toxicity

Ecotoxicity values: No data available.

Persistence and degradability: Biodegradable.

Bioaccumulative potential: No bioaccumulation potential.

Mobility: Readily absorbed into soil.

Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

Other adverse effects: Negligible ecotoxicity.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

Waste code number: 08 04 09

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

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14. TRANSPORT INFORMATION

UN number
UN number: UN3334
UN proper shipping name
Shipping name: AVIATION REGULATED LIQUID, N.O.S.
(ETHYL-2-CYANOACRYLATE)
Transport hazard class(es)
Transport class: 9
Packing group
Packing group: III
Environmental hazards
Environmentally hazardous: No Marine pollutant: No
Special precautions for user
Special precautions: No special precautions.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture
Chemical Safety Assessment

16. OTHER INFORMATION

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: EUH202: Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.

H302: Harmful if swallowed.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

H341: Suspected of causing genetic defects <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H351: Suspected of causing cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H400: Very toxic to aquatic life.

R22: Harmful if swallowed.

R36/37/38: Irritating to eyes, respiratory system and skin.

R40: Limited evidence of a carcinogenic effect.

R41: Risk of serious damage to eyes.

R43: May cause sensitisation by skin contact.

R50: Very toxic to aquatic organisms.

R68: Possible risk of irreversible effects.

Legend to abbreviations: PNEC = predicted no effect level

DNEL = derived no effect level

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LD50 = median lethal dose
LC50 = median lethal concentration
EC50 = median effective concentration
IC50 = median inhibitory concentration
dw = dry weight
bw = body weight
cc = closed cup
oc = open cup
MUS = mouse
GPG = guinea pig
RBT = rabbit
HAM = hamster
HMN = human
MAM = mammal
PGN = pigeon
IVN = intravenous
SCU = subcutaneous
SKN = skin
DRM = dermal
OCC = ocular/corneal
PCP = physico-chemical properties

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

END OF SAFETY DATA SHEET