

SAFETY DATA SHEET

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

1.1. Product identifier

Name of the substance Ethyl-2-cyanoacrylate

Trade name of the Hyloglue 3 / 120 / 300 / 1000 / 2500

substance

Identification number 607-236-00-9 (Index number)

Registration number

None. **Synonyms** 52 SDS number

Issue date 01-June-2015

01 Version number Revision date Supersedes date

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

Identified uses Industrial grade instant adhesive.

Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

MANUFACTURER: Hylomar Ltd.

Address: Hylo House, Cale Lane, New Springs,

Wigan, Greater Manchester,

UK, WN2 1JT

Telephone number: +44(0)1942 617000 E-mail address: info@hylomar.co.uk Contact person: **Technical Department** 1.4. Emergency telephone +1-760-476-3961 (US)

number

Access code: 333544

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The substance has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards

Skin corrosion/irritation Category 2 H315 - Causes skin irritation. Serious eye damage/eye irritation Category 2 H319 - Causes serious eye

irritation.

Specific target organ toxicity - single Category 3 respiratory tract irritation H335 - May cause respiratory

exposure

irritation.

Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. **Hazard summary**

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Ethyl-2-cyanoacrylate Contains:

Hazard pictograms



Signal word Warning

Hazard statements

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Causes skin irritation. H315 Causes serious eye irritation. H319 May cause respiratory irritation. H335

Precautionary statements

Prevention

P261 Avoid breathing vapours.

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

Response

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

and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

Storage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental label information EUH202 - Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of

children.

2.3. Other hazards In high concentrations, vapours may irritate throat and respiratory system and cause coughing.

SECTION 3: Composition/information on ingredients

3.1. Substances

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Ethyl-2-cyanoacrylate	100	7085-85-0 230-391-5	-	607-236-00-9	
Classification:	Skin Irrit. 2;H315, Eye Irrit. 2;H319, STOT SE 3;H335				

Composition comments

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

4.1. Description of first aid measures

Inhalation Move into fresh air and keep at rest. If not breathing, give artificial respiration or give oxygen by

trained personnel. Get medical attention if any discomfort continues.

Skin contact If adhesive bonds skin, flush with water and seek medical assistance. Do not attempt to force skin

apart if bonded. Peel or roll the surfaces apart with the aid of a blunt edge, e.g. a spatula or a teaspoon handle; then remove adhesive from the skin with soap and water. Upon solidification cyanoacrylates produce heat, in rare cases, large drops generate enough heat to cause burns. Burns should be treated normally after the adhesive has been removed from the skin. If skin

irritation persists, call a physician.

Eye contact In the event that eyelids are stuck together or bonded to the eyeball, wash thoroughly with warm

water and apply a gauze patch. The eye will open without further action, typically in 1 - 4 days. There will be no residual damage. Do not try to open the eyes by manipulation. Immediately flush eye(s) with plenty of water. Remove any contact lenses and open eyelids wide apart. If irritation

persists get medical attention.

Ingestion Rinse mouth thoroughly. It is almost impossible to swallow cyanoacrylates. The adhesive solidifies

and adheres in mouth. Lips may become stuck together. Drink a few glasses of water or milk. Get

medical attention if any discomfort continues.

4.2. Most important symptoms and effects, both acute and

delayed

Skin irritation. May cause redness and pain. Irritation of eyes. In high concentrations, vapours may

be irritating to the respiratory system.

4.3. Indication of any immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically.

SECTION 5: Firefighting measures

General fire hazards The product is combustible.

5.1. Extinguishing media

Suitable extinguishing

Water spray, foam, dry powder or carbon dioxide.

media

Unsuitable extinguishing Do not use water jet as an extinguisher, as this will spread the fire.

media

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5.2. Special hazards arising from the substance or mixture By heating and fire, toxic vapours/gases may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.

Special fire fighting

procedures

Cool containers exposed to heat with water spray and remove container, if no risk is involved. Prevent runoff from fire control or dilution from entering streams, sewers or drinking water supply.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Keep upwind. Ventilate closed spaces before entering. Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of vapours and contact with skin and eyes.

For emergency responders

Keep unnecessary personnel away. Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up Ventilate the area. Polymerise with water and scrape off floor. Transfer to a container for disposal. Following product recovery, flush area with water.

6.4. Reference to other

sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Technical aids: Use disposable equipment (rags, brushes, spatulas, putty knives, etc.), if possible. Keep away from sources of ignition - No smoking. Avoid inhalation of vapours and contact with skin and eyes. Avoid prolonged exposure. Wear protective clothing as described in Section 8 of this safety data sheet. Wash thoroughly after handling. Wash contaminated clothing before reuse. Use only outdoors or in a well-ventilated area. Observe good industrial hygiene practices. Avoid release to the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store in accordance with local/regional/national/international regulation. Keep container tightly closed in a cool, well-ventilated place. Store locked up. Store away from incompatible materials. Protect from moisture. Store in closed original container at temperatures between 2°C and 8°C.

Industrial grade instant adhesive. 7.3. Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

UK. EH40 Workplace Exposure Limits (WELs)

Material	Туре	Value		
Ethyl-2-cyanoacrylate (CAS 7085-85-0)	STEL	1.5 mg/m3		
		0.3 ppm		
Biological limit values	No biological exposure limits noted for the ingredient(s).			
Recommended monitoring procedures	Follow standard monitoring procedures.			

Derived no-effect level (DNEL)

Predicted no effect concentrations (PNECs) Not available. Not available.

8.2. Exposure controls

Appropriate engineering controls

Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours.

Individual protection measures, such as personal protective equipment

General information Personal protective equipment should be chosen according to the CEN standards and in

discussion with the supplier of the personal protective equipment.

Wear safety glasses with side shields (or goggles). Eye/face protection

Skin protection

Wear protective gloves. Polyethylene gloves are recommended. Be aware that the liquid may - Hand protection

penetrate the gloves. Frequent change is advisable. Suitable gloves can be recommended by the

glove supplier.

Normal work clothing (long sleeved shirts and long pants) is recommended. - Other

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Respiratory protection Not normally needed. If engineering controls do not maintain airborne concentrations below

recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Use respiratory

equipment with gas filter, type B.

Thermal hazards Not applicable.

Hygiene measures Always observe good personal hygiene measures, such as washing after handling the material

and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Private clothes and working clothes should be kept

separately.

Environmental exposure

controls

Environmental manager must be informed of all major releases.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Liquid.
Physical state Liquid.
Form Liquid.

Colour Colourless, clear.

Odour Sharp. Characteristic.

Odour thresholdNot available.pHNot applicable.Melting point/freezing pointNot available.Initial boiling point and boiling150 °C (302 °F)

range

Flash point 85.0 °C (185.0 °F) Closed cup

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

(%)

Vapour pressure0.29 mm HgVapour densityNot available.Relative density1.06 g/ml

Solubility(ies) Insoluble in water.

Partition coefficient No data available.

(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity 3 / 120 / 300 / 1000 / 2500 mPa:s

Explosive propertiesNot explosive. **Oxidizing properties**Not oxidising.

9.2. Other information

Explosive limit Not available. **Molecular formula** C6H7NO2

Solubility (other) Completely soluble in acetone.

VOC (Weight %) 0 (Hylomar Test Method 1.1A Determination of Volatile Matter)

SECTION 10: Stability and reactivity

10.1. Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability Material is stable under normal conditions.

10.3. Possibility of hazardous

reactions

Reacts exothermically with water.

10.4. Conditions to avoid Heat, sparks, flames.

10.5. Incompatible materials Water, moisture. Amines. Alkalies. Alcohols.

10.6. Hazardous Carbon oxi

decomposition products

Carbon oxides. Nitrogen oxides.

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SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation In high concentrations, vapours may irritate throat and respiratory system and cause coughing.

Skin contact Causes skin irritation.

Eye contact Causes serious eye damage.

Ingestion It is almost impossible to swallow cyanoacrylates. Ingestion may cause irritation and malaise.

Symptoms Skin irritation. May cause redness and pain. Irritation of eyes. In high concentrations, vapours

may be irritating to the respiratory system.

11.1. Information on toxicological effects

Acute toxicity Not expected to be acutely toxic.

Product Species Test results

Ethyl-2-cyanoacrylate (CAS 7085-85-0)

Acute

Dermal

LD50 Rabbit > 2000 mg/kg

Oral

LD50 Rat > 5000 mg/kg

Skin corrosion/irritationCauses skin irritation.

Serious eye damage/eye

irritation

Causes serious eye damage.

Respiratory sensitisationBased on available data, the classification criteria are not met.Skin sensitisationBased on available data, the classification criteria are not met.Germ cell mutagenicityBased on available data, the classification criteria are not met.

CarcinogenicityDue to lack of data the classification is not possible. **Reproductive toxicity**Due to lack of data the classification is not possible.

Specific target organ toxicity -

single exposure

May cause respiratory irritation.

Specific target organ toxicity -

repeated exposure

Due to lack of data the classification is not possible.

Aspiration hazard Due to lack of data the classification is not possible.

Mixture versus substance

information

No data available.

Other information No other specific acute or chronic health impact noted.

SECTION 12: Ecological information

12.1. Toxicity The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

12.2. Persistence and

degradability

Expected to be readily biodegradable.

12.3. Bioaccumulative potential No data available.Partition coefficient No data available.

n-octanol/water (log Kow)

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil No data available.

Mobility in general The product is insoluble in water.

12.5. Results of PBT

and vPvB

assessment

Not a PBT or vPvB substance or mixture.

12.6. Other adverse effectsAn environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual wasteDo not discharge into rivers, lakes, mountains, etc. because the product may affect the

environment.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

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EU waste code 08 04 09*

The Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Disposal methods/information Do not discharge into drains, water courses or onto the ground. Collect and reclaim or dispose in

sealed containers at licensed waste disposal site. Dispose of contents/container in accordance

with local/regional/national/international regulations.

SECTION 14: Transport information

ADR

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

ADN

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not applicable.

Not listed

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Not listed

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended

Not listed

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding, as amended

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances

Not listed.

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work Ethyl-2-cyanoacrylate (CAS 7085-85-0)

Directive 94/33/EC on the protection of young people at work

Not listed.

Hyloglue 3 / 120 / 300 / 1000 / 2500 SDS UK Other regulations The product is classified and labelled in accordance with EC directives or respective national laws.

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP

Regulation) as amended and respective national laws implementing EC directives.

National regulations 15.2. Chemical safety

assessment

Follow national regulation for work with chemical agents. No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

DNEL: Derived No-Effect Level.

PNEC: Predicted No-Effect Concentration.
PBT: Persistent, bioaccumulative and toxic.
vPvB: Very Persistent and very Bioaccumulative.

References HSDB® - Hazardous Substances Data Bank

Information on evaluation method leading to the classification of mixture

The mixture is classified based on test data for physical hazards. The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if

available. For details, refer to Sections 9, 11 and 12.

Full text of any H-statements not written out in full under

Sections 2 to 15

H315 Causes skin irritation.

H319 Causes serious eye irritation. H335 May cause respiratory irritation.

Training information Follow training instructions when handling this material.

Disclaimer The information in the sheet was written based on the best knowledge and experience currently

available.

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