HYLOMAR

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

Synonyms None. SDS number 52

Issue date 01-June-2015

Version number 02

Revision date 23-August-2018 01-June-2015 Supersedes date

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

Industrial grade instant adhesive. **Identified uses**

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** +1-760-476-3961 (US) 1.4. Emergency telephone

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.

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

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

Hyloglue 3 / 120 / 300 / 1000 / 2500

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

Precautionary statements

Prevention

Avoid breathing vapours. P261

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

Response

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

and easy to do. Continue rinsing.

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

Storage

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

Disposal

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

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

children.

2.3. Other hazards This substance does not meet vPvB / PBT criteria of Regulation (EC) No 1907/2006, Annex XIII.

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 SI	E 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.

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

By heating and fire, toxic vapours/gases may be formed.

5.2. Special hazards arising from the substance or mixture

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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.

Keep unnecessary personnel away. Wear protective clothing as described in Section 8 of this For emergency responders

safety data sheet.

Prevent further leakage or spillage if safe to do so. Do not discharge into drains, water courses or 6.2. Environmental precautions

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	

No biological exposure limits noted for the ingredient(s). **Biological limit values**

Recommended monitoring

procedures

Follow standard monitoring procedures.

Derived no effect levels

(DNELs)

Not available.

Predicted no effect concentrations (PNECs) Not available.

8.2. Exposure controls

Appropriate engineering

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

inhalation of vapours.

Individual protection measures, such as personal protective equipment

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

discussion with the supplier of the personal protective equipment.

Eye/face protection Wear safety glasses with side shields (or goggles). Eye protection should meet standard EN 166.

Skin protection

Wear suitable gloves tested to EN374. Be aware that the liquid may penetrate the gloves. - Hand protection

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

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 filter type A

according to EN 14387.

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

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or

engineering modifications to the process equipment may be necessary to reduce emissions to

acceptable levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state Liquid. Liquid. **Form**

Colour Colourless, clear. Sharp. Characteristic. Odour

Odour threshold Not available. pН Not applicable. Melting point/freezing point Not available 150 °C (302 °F) Initial boiling point and boiling

range

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

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 pressure 0.29 mm Hg Not available. Vapour density Relative density 1.06 g/ml

Solubility(ies) Insoluble in water. Partition coefficient No data available.

(n-octanol/water)

Not available. Auto-ignition temperature **Decomposition temperature** Not available.

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

Explosive properties Not explosive. **Oxidising properties** Not oxidising.

9.2. Other information

2.6 mPa.s (20 °C (68 °F)) **Dynamic viscosity**

Explosive limit Not available. C6H7NO2 Molecular formula Molecular weight 125.13 g/mol

Solubility (other) Completely soluble in acetone.

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

SECTION 10: Stability and reactivity

Hyloglue 3 / 120 / 300 / 1000 / 2500

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

10.2. Chemical stability Material is stable under normal conditions.

Reacts exothermically with water. 10.3. Possibility of hazardous

reactions

10.4. Conditions to avoid Heat, sparks, flames.

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Water, moisture. Amines. Alkalis. Alcohols.

10.6. Hazardous

decomposition products

Carbon oxides. Nitrogen oxides.

SECTION 11: Toxicological information

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

Information on likely routes of exposure

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

Causes skin irritation. Skin contact

Causes serious eye damage. Eye contact

It is almost impossible to swallow cyanoacrylates. Ingestion

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

may be irritating to the respiratory system.

11.1. Information on toxicological effects

Not expected to be acutely toxic. Acute toxicity

Product Test Results Species

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

Acute

Dermal

LD50 Rabbit > 2000 mg/kg

Oral

LD50 Rat > 5000 mg/kg

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

irritation

Causes serious eye damage.

Respiratory sensitisation Based on available data, the classification criteria are not met. 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 Due 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.

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

Mixture versus substance

information

No data available.

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

SECTION 12: Ecological information

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

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.

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

n-octanol/water (log Kow)

Not available. **Bioconcentration factor (BCF)** 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

This substance does not meet vPvB / PBT criteria of Regulation (EC) No 1907/2006, Annex XIII.

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

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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Residual waste Do 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.

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

14.1. UN number UN3334

14.2. UN proper shipping Aviation regulated liquid, n.o.s.

name

14.3. Transport hazard class(es)

Class 9 Subsidiary risk -

Hazard No. (ADR) Not available.

Tunnel restriction code Not available.

14.4. Packing group NOT SUBJECT TO ADR

14.5. Environmental hazards No.

14.6. Special precautions Not applicable.

for user

RID

14.1. UN number UN3334

14.2. UN proper shipping Aviation regulated liquid, n.o.s.

name

14.3. Transport hazard class(es)

Class 9 Subsidiary risk -

14.4. Packing group NOT SUBJECT TO RID

14.5. Environmental hazards No.

14.6. Special precautions Not applicable.

for user

ADN

14.1. UN number UN3334

14.2. UN proper shipping Aviation regulated liquid, n.o.s.

name

14.3. Transport hazard class(es)

Class NOT SUBJECT TO ADN

Subsidiary risk -

Label(s) NOT SUBJECT TO ADN

14.4. Packing group NOT SUBJECT TO ADN

14.5. Environmental hazards No.

14.6. Special precautions Not applicable.

for user

IATA

14.1. UN number UN3334

14.2. UN proper shipping Aviation regulated liquid, n.o.s.

name

14.3. Transport hazard class(es)

Class 9
Subsidiary risk
14.4. Packing group III

14.5. Environmental hazards No.
ERG Code 9A

14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.

for user

IMDG

14.1. UN number UN3334

14.2. UN proper shipping AVIATION REGULATED LIQUID, N.O.S.

name

14.3. Transport hazard class(es)

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Class 9
Subsidiary risk -

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14.4. Packing group Not available.

14.5. Environmental hazards

Marine pollutant No.

EmS Not available.

14.6. Special precautions Not applicable.

for user

14.7. Transport in bulk Not applicable.

according to Annex II of MARPOL 73/78 and the IBC Code

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 listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended Not listed.

Regulation (EU) No. 649/2012 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

Not listed.

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 authorisation, 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

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.

Other EU regulations

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

Not listed.

Other regulations This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as

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

(CLP Regulation) as amended.

National regulations Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as

amended.

15.2. Chemical safety

assessment

For this substance a 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

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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

assification of mixture 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.

Hyloglue 3 / 120 / 300 / 1000 / 2500