

**CYANOBLOOM****SECTION 1: Identification of the Substance and the Company****1.1. Product identifier****Substance Name**

Cyanobloom

**1.2. Relevant identified uses of the substance and uses advised against****Identified Use**

Detection and enhancement of latent fingerprint marks.

**1.3. Details of the supplier of the Safety Data Sheet****Company Name**

Foster + Freeman Ltd, Vale Park, Evesham, Worcestershire, WR11 1TD, UK

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**1.4. Emergency telephone number**

Customer Support Department: ☎ + 44 (0) 1386 768050.

**SECTION 2: Hazards identification****2.1. Classification of the substance****Classification (EC 1272/2008)**

Physical hazards: Not Classified.

Health hazards: Skin Irritation (2 - H315); Eye Irritation (2 - H319); STOT SE (3 - H335).

Environmental hazards: Not Classified.

Human health: Bonds skin and eyes in seconds.

**2.2. Label elements**Pictogram: 

Signal word: Warning

**Hazard statements**

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

**Precautionary statements**

P261: Avoid breathing vapours.

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

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

P302+P352: IF ON SKIN: Wash with plenty of water.

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.

**Supplemental label information**

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

**Contains**

Ethyl-2-cyanoacrylate

**SECTION 3: Composition/information on ingredients**

Constituent	Chemical Formula	CAS No.	EC Number	% (Weight)
Ethyl-2-cyanoacrylate	C <sub>2</sub> H <sub>2</sub> CNCOOC <sub>2</sub> H <sub>5</sub>	7085-85-0	230-391-5	> 99
Additives				< 0.02

**Classification**

Skin Irritation (2 - H315)

Eye Irritation (2 - H319)

STOT SE (3 - H335)

See: Section 16.

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

Show this Safety Data Sheet to the medical personnel.

**Inhalation**

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.

**Ingestion**

Rinse mouth thoroughly with water. Give plenty of water to drink. Keep affected person under observation. Get medical attention if any discomfort continues.

**Skin contact**

If adhesive bonding occurs, do not force skin apart. Rinse immediately with plenty of water. Get medical attention immediately.

**Eye contact**

If adhesive bonding occurs, do not force eyelids apart. Apply a pad soaked in warm water and allow the eyelids to separate. Get medical attention. Consult a physician for specific advice.

**4.2. Most important symptoms and effects, both acute and delayed****Inhalation**

There may be irritation of the throat and a feeling of tightness in the chest. Exposure may cause coughing and wheezing.

**Ingestion**

There may be soreness and redness of the mouth and throat. The product will polymerise immediately in the mouth, making it almost impossible to swallow, but beware of possible choking hazard.

**Skin contact**

Cyanoacrylates bond skin in seconds. In the case of large spills on the skin, superficial burn may occur. Treat accordingly. There may be irritation and redness at the site of contact.

**Eye contact**

Cyanoacrylates bond eyelids in seconds. There may be irritation and redness. The eyes may water profusely.

**4.3. Indication of any immediate medical attention and special treatment needed****Notes for the doctor**

If adhesive bonding occurs, do not force eyelids apart. Apply a pad soaked in warm water and allow the eyelids to separate. Get medical attention.

If adhesive bonding occurs, do not force skin apart. Rinse immediately with plenty of water. Get medical attention.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Extinguish with alcohol-resistant foam, carbon dioxide or dry powder. Do not use water, if avoidable.

**5.2. Special hazards arising from the substance or mixture****Specific hazards**

No unusual fire or explosion hazards noted.

**Hazardous combustion products**

Thermal decomposition or combustion products may include the following substances: Oxides of carbon; Oxides of nitrogen.

**5.3. Advice for firefighters****Protective actions during firefighting**

Move containers from fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out.

**Special protective equipment for firefighters**

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****Personal precautions**

Avoid inhalation of vapours and contact with skin and eyes. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate.

**6.2. Environmental precautions****Environmental precautions**

Do not discharge into drains or watercourses or onto the ground.

**6.3. Methods and material for containment and cleaning up****Methods for cleaning up**

Absorb spillage with sand or other inert absorbent. Collect and place in suitable waste disposal containers and seal securely.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Usage precautions**

Avoid contact with skin and eyes. Avoid inhalation of vapours. Avoid spilling. Mechanical ventilation or local exhaust ventilation may be required.

**7.2. Conditions for safe storage, including any incompatibilities****Storage precautions**

Keep containers upright. Keep containers tightly closed. Protect from freezing and direct sunlight. Store in a cool and well-ventilated place. Preferred storage conditions: Keep refrigerated (0 – 5°C).

**Shelf life**

Temperature (°C)	Shelf life (months)
0 – 5	12
5 – 25	6

**Storage class**

Chemical storage.

**SECTION 8: Exposure Controls/personal protection****8.1. Control parameters****Occupational exposure limits**

Ethyl-2-cyanoacrylate: Short-term exposure limit (15-minute): WEL 0.3 ppm 1.5 mg/m<sup>3</sup> (WEL = Workplace Exposure Limit)

**8.2. Exposure controls****Protective equipment****Appropriate engineering controls**

Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product.

**Eye/face protection**

Eyewear complying with an approved standard should be worn if a risk assessment indicates that eye contact is possible. The following protection should be worn: Chemical splash goggles.

Personal protective equipment for eye and face protection should comply with European Standard EN166.

#### **Hand protection**

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates that skin contact is possible. Wear protective gloves made of the following material: Nitrile rubber or Viton rubber (fluoro-rubber). To protect hands from chemicals, gloves should comply with European Standard EN374.

#### **Other skin and body protection**

Wear apron or protective clothing in case of contact.

#### **Hygiene measures**

Wash at the end of each work shift and before eating, smoking and using the toilet.

#### **Respiratory protection**

If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: Organic vapour filter.

## **SECTION 9: Physical and Chemical Properties**

### **9.1. Information on basic physical and chemical properties**

Appearance: Colourless liquid.

Colour: Colourless.

Odour: Acrid.

Initial boiling point and range >150°C @ 760 mm Hg

Flash point >85°C

Vapour pressure ~ 0.04 mm Hg @ 25°C

Relative density = 1.06 @ 20°C

Solubility: Hardens in contact with water. Soluble in the following materials: Acetone

Viscosity = 5 cP @ 20°C.

## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

There are no known reactivity hazards associated with this product.

### **10.2. Chemical stability**

Stable at normal ambient temperatures and when used as recommended. Avoid the following conditions: Moisture.

### **10.3. Possibility of hazardous reactions**

May polymerise.

### **10.4. Conditions to avoid**

Avoid exposure to high temperatures or direct sunlight. Avoid contact with water.

### **10.5. Incompatible materials**

#### **Materials to avoid**

Strong oxidising agents. Water, steam, water mixtures. Alcohols, glycols. Amines.

### **10.6. Hazardous decomposition products**

Heating may generate the following products: Oxides of carbon; Oxides of nitrogen.

## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

#### **Inhalation**

Irritating to respiratory system. Vapour may irritate respiratory system/lungs.

#### **Ingestion**

May cause severe internal injury. May cause discomfort if swallowed.

#### **Skin contact**

Irritating to skin. Prolonged or repeated exposure may cause severe irritation.

#### **Eye contact**

Irritating to eyes. Severe irritation, burning and tearing.

**SECTION 12: Ecological Information****12.1. Toxicity****Ecotoxicity**

Not regarded as dangerous for the environment.  
Not considered toxic to fish.

**12.2. Persistence and degradability**

No data available.

**12.3. Bioaccumulative potential**

The product is not bioaccumulating.

**12.4. Mobility in soil****Mobility**

The product hardens to a solid, immobile substance.

**12.5. Results of PBT and vPvB assessment**

This product does not contain any substances classified as PBT or vPvB.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal methods**

Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

**SECTION 14: Transport information****14.1. UN number****UN No. (ICAO)**

3334

**14.2. UN proper shipping name****Proper shipping name (ICAO)**

AVIATION REGULATED LIQUID, N.O.S. (Ethyl-2-Cyanoacrylate)

**14.3. Transport hazard class(es)****ICAO class/division**

9

**Transport labels****14.4. Packing group****ICAO packing group**

III

**14.5. Environmental hazards****Environmentally hazardous substance/marine pollutant**

No.

**14.6. Special precautions for user**

None

**14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code**

Not applicable.

**SECTION 15: Regulatory information****15.1. Safety, health & environmental regulations/legislation specific for the substance****National regulations**

Control of Substances Hazardous to Health Regulations 2002 (as amended).

**EU legislation**

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Commission Regulation (EU) No. 2015/830 of 28 May 2015.

#### Guidance

Workplace Exposure Limits EH40.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other Information

### Abbreviations and acronyms used in the safety data sheet

ATE: Acute Toxicity Estimate.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.

CAS: Chemical Abstracts Service.

DNEL: Derived No Effect Level.

GHS: Globally Harmonized System.

IATA: International Air Transport Association.

ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air.

IMDG: International Maritime Dangerous Goods.

LC<sub>50</sub>: Lethal Concentration to 50 % of a test population.

LD<sub>50</sub>: Lethal Dose to 50% of a test population (Median Lethal Dose).

PBT: Persistent, Bioaccumulative and Toxic substance.

PNEC: Predicted No Effect Concentration.

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.

RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.

STOT-SE: Specific Target Organ Toxicity – Single Exposure.

STOT-RE: Specific Target Organ Toxicity – Repeated Exposure.

SVHC: Substances of Very High Concern.

vPvB: Very Persistent and Very Bioaccumulative.

cATpE: Converted Acute Toxicity Point Estimate.

EC<sub>50</sub>: 50% of maximal Effective Concentration.

UN: United Nations.

IBC: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk (International Bulk Chemical Code).

### General

The data contained in this Safety Data Sheet does not constitute a User's assessment of workplace risk as required by the Health & Safety at Work Act, Control of Substances Hazardous to Health (COSHH), Management of Health & Safety at Work Regulations or other Health & Safety legislation.

This Data Sheet has been supplied for the purpose of protecting the health and safety of industrial and commercial users who are deemed capable of understanding and acting on the information provided. Please ensure that it is passed to the appropriate person(s) in your organisation capable of acting on the information.

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