

## SAFETY DATA SHEET

Revision: 2016.06.27

This Safety Data Sheet has been prepared in accordance with the REACH Regulation (EC) 1907/2006 and its modifications.

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

#### **1.1. Product identifier**

Substance name: **EM-02S**  
 Product Type: Ethyl Cyanoacrylate

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

Cyanoacrylate instant adhesive

#### **1.3. Details of the supplier of the Safety Data Sheet**

##### **Manufacturer/Supplier**

CPH International

##### **Street address/P.O. Box**

611 S. Catalina St. Suite AB Los Angeles, CA 90005

##### **Telephone number (if possible, indicate telefax)**

Tel. 213-382-7788 Fax. 213-386-5241 TOLL FREE: 1-800-900-4583

##### **e-mail address of competent person responsible for the SDS**

[cph@starbond.com](mailto:cph@starbond.com)

#### **1.4 Emergency telephone number**

Opening hours: PST 9:00 am – 5:00 pm

### **SECTION 2: Hazards identification**

#### **2.1 Classification of the substance or mixture**

##### **2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]**

Skin Irrit. 2H315 Causes skin irritation.

Eye irrit.2 H319 Causes serious eye irritation.

SHOT SE 3 H335 May cause respiratory irritation.

##### **2.1.2. Classification according to Directive 67/548/EEC (see SECTION 16 for full text of risk**

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

##### **2.1.3 Additional information:**

For full text of R- phrases: see SECTION 16.

#### **2.2. Label elements**

Labelling according to Regulation (EC) No 1272/2008 [CLP]

Hazard pictograms



GHS07



GHS08

**Signal word:** Warning

##### **Hazard statements:**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation

##### **Precautionary statements<sup>54</sup>**

P261 Avoid breathing mist/vapours/spray.

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

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

### 2.3 Other hazards

All chemicals are potentially dangerous. They should only be handled by specially trained

**Substance meets the criteria for vPvB according to**

**Regulation (EC) No 1907/2006, Annex**

PBT: Not applicable.

vPvB: Not applicable

## SECTION 3: Composition/information on ingredients:

Ingredient	CAS Nbr	EU Inventory	% by Wt	Classification
Ethyl 2-Cyanoacrylate	7085-85-0	EINECS 230-391-5	>95	Xi:R36-37-38 (EU) Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 (CLP)
Poly Methyl Methacrylate	9011-14-7		1-5	
Hydroquinone	123-31-9	EINECS 204-617-8	<0.2	Carc.Cat.3:R40; Muta.Cat.3:R68; Xn:R22; Xi:R41; N:R50; R43 (EU) Acute Tox. 4, H302; Eye Dam. 1, H318; Skin Sens. 1, H317; Muta. 2, H341; Carc. 2, H351; Aquatic Acute 1, H400,M=10(CLP)

Please see section 16 for the full text of any R phrases and H statements referred to in this section

Please refer to section 15 for the any applicable Notas that have been applied to the above components

For information on ingredient occupational exposure limits or PBT or vPvB status, see sections 8 and 12 of this SDS

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

Eye contact

Immediately flush eyes with large amounts of water for at least 15 minutes. Get immediate medical attention. DO NOT force eyelids open.

Skin contact

For skin bonds: Quickly soak in warm water and avoid use of excessive force to free bonded area. If unable to free bonded area, or if lips or mouth are bonded, get medical attention. If irritation persists, get medical attention.

Inhalation

Remove person to fresh air. If you feel unwell, get medical attention.

If swallowed

Rinse mouth. If you feel unwell, get medical attention.

### 4.2. Most important symptoms and effects, both acute and delayed

See Section 11.1 Information on toxicological effects

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

Not applicable

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media:

In case of fire: Use a fire fighting agent suitable for flammable liquids or gases such

as dry chemical or carbon dioxide.

## 5.2 Special hazards arising from the substance or mixture

Closed containers exposed to heat from fire may build pressure and explode.

## Hazardous Decomposition or By-Products

Substance Condition	Condition
Carbon monoxide. During combustion.	During combustion.
Carbon dioxide. During combustion.	During combustion.
Oxides of nitrogen. During combustion.	During combustion.

## 5.3 Advice for firefighters

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapours, in accordance with good industrial hygiene practice. Warning: A motor could be an ignition source and could cause flammable gases or vapours in the spill area to burn or explode. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

### 6.2 Environmental precautions:

For larger spills, cover drains and build dykes to prevent entry into sewer systems or bodies of water. Avoid release to the environment.

### 6.3 Methods and material for containment and cleaning up

Contain spill. Collect as much of the spilled material as possible using non-sparking tools. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a toxic, corrosivity or flammability hazard. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and Safety Data Sheet. Seal the container. Dispose of collected material as soon as possible.

### 6.4. Reference to other sections

Refer to Section 8 and Section 13 for more information

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

For industrial or professional use only. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) Vapours may travel long distances along the ground or floor to an ignition source and flash back.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Store away from heat. Protect from sunlight. Store away from acids. Store away from oxidising agents.

### 7.3 Specific end use(s):

See information in Section 7.1 and 7.2 for handling and storage recommendations.

See Section 8 for exposure controls and personal protection recommendations.

## **SECTION 8: Exposure controls/personal protection**

### **8.1 Control parameters**

#### **Occupational exposure limits**

#### **Ingredients with limit values that require monitoring at the workplace:**

7085-85-0 ethyl 2-cyanoacrylate

WEL (Great Britain) Short-term value: 1.5 mg/m<sup>3</sup>, 0.3 ppm

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

### **8.2. Exposure controls**

#### **8.2.1. Engineering controls**

Provide appropriate local exhaust ventilation for cutting, grinding, sanding or machining.

Curing enclosures must be exhausted to outdoors or to a suitable emission control device.

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapours/spray.

If ventilation is not adequate, use respiratory protection equipment.

#### **8.2.2 Personal protection equipment:**

##### **Eye/face protection**

Wear eye/face protection.

The following eye protection(s) are recommended: Safety glasses with side shields.

Indirect vented goggles.

Skin/hand protection

Wear protective gloves.

Gloves made from the following material(s) are recommended: Fluoroelastomer

Polyethylene

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Select one of the following approved respirators based on airborne concentration of contaminants and in accordance with regulations:

Half facepiece or fullface air-purifying respirator with organic vapour cartridges and P2 particulate prefilters.

Half facepiece or fullface air-purifying respirator with organic vapour cartridges and P3 particulate prefilters.

## **SECTION 9: Physical and chemical properties**

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

Physical state	Liquid.
Appearance/Odour	Clearliquid, with a sharp, pungent odour.
pH	Not applicable.
Boiling point/boiling range	65 ± 1 °C at 6mmHg
Melting point	< -30 °C
Flammability (solid, gas)	Flammable Liquid: Category 4.
Explosive properties	Not classified
Oxidising properties	Not classified
Flash point	> 84 °C [Test Method:Closed Cup]
Autoignition temperature	No data available.
Flammable Limits(LEL)	No data available.
Flammable Limits(UEL)	No data available.
Vapour pressure	<=5.3 Pa [@ 20 °C ]
Water solubility	Nil
Partition coefficient: n-octanol/water	No data available.
Evaporation rate	Negligible
Vapour density	4.3
Viscosity	2-5 mPa.s [@ 20 °C ]
Density	1.06-1.08 g/ml

**9.2 Other information**

Volatile organic compounds (VOC)	Less than 2%
VOC less H <sub>2</sub> O & exempt solvents	No data available.

**SECTION 10: Stability and Reactivity****10.1. Reactivity**

This material may be reactive with certain agents under certain conditions – see the remaining headings in this section

**10.2 Chemical stability**

Stable.

**10.3. Possibility of hazardous reactions**

Hazardous polymerisation may occur. May occur in large quantities only.

**10.4. Conditions to avoid**

Heat.

**10.5. Incompatible materials**

Strong oxidising agents.

Water

Strong bases.

Amines.

Alcohols.

Material polymerises rapidly by contact with water, alcohol, amines, and alkalis.

**10.6. Hazardous decomposition products**

No information available.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Signs and Symptoms of Exposure**

**Based on test data and/or information on the components, this material may produce the following health effects:**

**Eye contact**

Severe eye irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision. Bonds eyelids rapidly. Vapours released during curing may cause eye irritation:

Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Dust created by cutting, grinding, sanding, or machining may cause eye irritation:

Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

**Skin contact**

Bonds skin rapidly. Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness.

**Inhalation**

Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. Dust from cutting, grinding, sanding or machining may cause irritation of the respiratory system:

Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, nose and throat pain.

**Ingestion**

Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea.

**SECTION 12: Ecological information**



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

**SECTION 16: Other information**

**Relevant phrases**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

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

**Department issuing MSDS: Department: Health, Safety and Environment**

**Contact: Frau Weckemann**

**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)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

**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.**