


STAB 4-50

| Safety data sheet.  |
|---|
| Product: STAB4-50   |
| <b>Section 1. Identification of the substance/mixture &amp; of the Company/undertaking</b>  |
| <u>1.1. Product identifier.</u><br>Product Name: Hybrid Cyanoacrylate adhesive product<br>Product no. STAB 4-50<br><u>1.2 ----</u>  |
| <u>1.3. Details of the supplier of the safety data sheet.</u><br>Supplier. Gauge Factors Ltd, 3 Towergate Ind. Pk., Colebrook Way, Andover, Hants. SP10 3BB UK  |
| <u>1.4. Emergency telephone number.</u><br>+44(0)1264 336396 between 8.30 - 4.30 Mon – Fr. Not 24 hours<br>Email: sales@gaugefactors.com  |
| <b>Section 2. Hazards identification.</b>   |
| <u>2.1 Classification of the substance or mixture.</u><br>Health: Eye irritation, category 2A. Skin irritation, category 2. Target organ toxicity (single exposure), category 3. Skin sensitization, category 1.<br><br>Physical: Flammable liquids, category 4.  |
| <u>2.2 Label elements.</u><br><br><b>Signal word: WARNING</b>  |
| <b>Note:</b> If this product is a consumer product it is labelled in accordance with the Consumer Product Safety Commission regulations and not OSHA regulations. The requirements for the labelling of consumer products take precedence over OSHA labelling so the actual label will not contain the OSHA label elements shown below on this SDS  |
| <b>Hazard statements:</b><br>H227: Combustible liquid.<br>H315: Causes skin irritation.<br>H317: May cause an allergic skin reaction.<br>H319: Causes serious eye irritation.<br>H335: May cause respiratory irritation.  |
| <b>Precautionary statemets(s).</b><br><b>Prevention:</b><br>P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking<br>P261: Avoid breathing dust/fume/gas/mist/vapours/spray.<br>P264: Wash skin and hands thoroughly after handling.<br>P271: Use only outdoors or in a well-ventilated area.<br>P280: Wear protective gloves/protective clothing/eye protection/face protection.   |
| <b>Response:</b><br>P302 + P352: <b>If On Skin:</b> Wash with plenty of soap and water.<br>P304 + P340: <b>If Inhaled:</b> Remove to fresh air and keep at rest in a position comfortable for breathing.<br>P305 + P351 + P338 <b>If In Eyes</b> rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P312: Call a <b>Poison Centre</b> of doctor/physician if you feel unwell<br>P313: Get medical advice/attention.<br>P333 + P313: If skin irritation or rash occurs: Get medical advice/attention. |

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P337 + P313: If eye irritation persists: Get medical advice/attention.  
 P362: Take off contaminated clothing and wash before reuse.  
 P370: In case of fire: Use dry chemical, foam or carbon dioxide to extinguish.

**Storage:**

P403 + P233: Store in a well-ventilated place. Keep container tightly closed.  
 P403 + P235: Store in a well-ventilated place. Keep cool.  
 P405: Store locked up

**Disposal:**

501: Dispose of in a manner consistent with federal, state and local regulations.

2.3. Other hazards

Skin contact through clothing may cause burns.

**Section 3. Composition/information on ingredients**

| Chemical name           | Wt.%   | CAS       |
|-------------------------|--------|-----------|
| Ethyl-2-cyanoacrylate   | 85-100 | 7085-85-0 |
| Polymethyl methacrylate | 10-30  | 9011-14-7 |
| Hydroquinone            | <0.1   | 123-31-9  |

**Section 4. First Aid Measures**
4.1. Description of first aid measures.

**Eye contact:** Immediately flush eyes with plenty of water for several minutes while holding eyelids apart. Remove contact lenses if easy to do so. Continue rinsing. Get immediate medical attention if irritation or bonding occurs

**Skin contact:** Wash with soap and water. Peel or roll skin apart.

**Inhalation:** Remove to fresh air. Prolonged or repeated elevated exposure may cause allergic reactions with asthma-like symptoms in sensitive individuals.

**Ingestion:** Peel or roll skin apart. Adhesive becomes solid in contact with saliva and may adhere to inside of mouth. Saliva will lift adhesive in 1-2 days. Avoid swallowing solid adhesive after detachment. Not a toxic product.

4.2 Most important symptoms and effects both acute and delayed.

**Eye contact:** Causes serious eye irritation. Will bond eyelids. Will cause excessive tearing.

**Skin contact:** Bonds skin in seconds. May cause skin irritation. May cause sensitization by skin contact. Cyanoacrylates generate heat on polymerization, so very large amounts will burn the skin.

**Inhalation:** Prolonged or excessive inhalation may cause respiratory tract irritation.

**Ingestion:** Adhesive becomes solid in contact with saliva and may adhere to inside of mouth. Saliva will lift adhesive in 1-2 days.

Not a toxic product.

**Accute Toxicity:** Avoid exposure to vapour concentration in confined areas.

**Chronic effects:** Frequent or prolonged contact may irritate the skin and cause a skin rash (dermatitis).

**Section 5. Fire Fighting Measures.**

**General Hazard:** Combustible liquid and vapour. Product polymerized to solid by water.

**Extinguishing media:** Use dry chemical extinguisher or flush with large amounts of water.

**Hazardous combustion products:** Can burn in fire, releasing irritating vapours.

**Explosion Hazards:** None known.

**Firefighting procedures:** Evacuate area and fight fire from a safe distance.

**Firefighting equipment:** Self-contained breathing apparatus. (MSHA/NIOSH approved or equivalent) and full protective gear

**Fire explosion:** None known.

**Sensitive to static discharge:** None known.

**Sensitivity to impact:** None known

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**Hazardous decomposition products:** Combustible by-products of carbon monoxide/dioxide.

## Section 6. Accidental Release Measures.

**Small spill:** Polymerize with water. Solid material may be scraped from surface.

**Large spill:** Polymerize with water. Increase ventilation to area. Solid material may be scraped from surface.

## Section 7. Handling &amp; Storage.

**General procedures:** Use with adequate ventilation. Avoid contact with eyes, skin and clothing.

**7.1. Precautions for safe handling.** Avoid breathing (dust, vapour, mist, gas) Avoid contact with skin, eyes and clothing. Keep container closed when not in use.

**7.2. Conditions for safe storage, including any incompatibilities.** Store in a cool place in original container and protect from sunlight. Keep away from sources of ignition. **Storage temperature:** ideal 5-10°C (41-50°F)

**Shelf life:** As stated on label.

7.3. Specific end use(s)

No data available.

## Section 8. Exposure Controls/ Personal Protection

8.1. Control parameters.

**Exposure Guidelines**

| OSHA Hazardous components (29 DFR1910. 1200)   |             |                 |                       |           |                       |              |                       |
|--|-------------|-----------------|-----------------------|-----------|-----------------------|--------------|-----------------------|
|  |             | Exposure limits |                       |           |                       |              |                       |
|  |             | OSHA PEL        |                       | ACGIH TLV |                       | Supplier OEL |                       |
| Chemical name                                  |             | ppm             | Mg/<br>m <sup>3</sup> | ppm       | Mg/<br>m <sup>3</sup> | ppm          | Mg/<br>m <sup>3</sup> |
| Ethyl-2-cyanoacrylate                          | TWA         | [1]             | [1]                   | 0.2       | 1.0                   | 0.2          |                       |
| Hydroquinone                                   | TLV(DSEN)** |                 | 2*                    |           | 1**                   |              |                       |
| <b>OSHA Table comments:</b> 1. NL = not listed |             |                 |                       |           |                       |              |                       |

8.2 Exposure controls

**Engineering controls:** Use in a well ventilated areas. Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product.

**Personal Protective equipment:**

**Eyes and face:** For normal conditions wear safety glasses. Where there is reasonable probability of liquid contact wear splash proof goggles.

**Skin:** Use nitrile gloves and aprons to prevent contact. Do not use PVC, Nylon or cotton materials.

**Respiratory:** Use only in a well-ventilated area. In case of insufficient ventilation, wear suitable respiratory equipment.

Recommended: Full-face NIOSH approved respirator with organic vapour cartridge.

**Work hygienic practices:** Avoid direct contact and breathing vapour. Use with adequate ventilation. Wash hands with soap and water after use.

**Other use precautions:** Facilities storing or utilizing this material should be equipped with an eyewash facility.

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## Section 9. Physical and Chemical Properties.

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

|   |  |  |                                   |
|---|--|--|-----------------------------------|
| <b>State</b>                            | Liquid   | <b>Freezing point</b>  | Not available                     |
| <b>Odour</b>                            | Characteristic odour.<br>Intensely irritating. | <b>Melting point</b>   | Not determined                    |
| <b>Odour threshold</b>                  | Odour threshold = 1ppm                         | <b>Thermal decomposition</b>                                   | Not available                     |
| <b>Appearance</b>                       | Transparent, colourless liquid                 | <b>Solubility in water</b>                                     | Not soluble                       |
| <b>pH</b>                               | No data available                              | <b>Evaporation rate</b>  | No data available                 |
| <b>Percent volatile</b>                 | No data available                              | <b>Density</b>   | No data available                 |
| <b>Flashpoint &amp; method °C (°F):</b> | 80 (176 ) to 93.4 (200 )<br>TAG CC             | <b>Specific gravity</b>  | 1.06g/ml @ 25°C                   |
| <b>Flammable limits</b>                 | No data available.                             | <b>Viscosity#1</b>   | 30-70 centipoise @ 22°C (72°F)    |
| <b>Auto-ignition Temp °C (°F):</b>      | 485 (905 )                                     | <b>Molecular weight</b>  | No data available                 |
| <b>Vapour pressure</b>                  | <0.2mm Hg                                      | <b>(VOC)</b>   | <20.000g/L per SCAQMD Method 316B |
| <b>Vapour density</b>                   | Not available                                  | <b>Coeff. Oil/Water. Partition coefficient (octanol/water)</b> | No data available                 |
| <b>Boiling point °C (°F):</b>           | >149(300)                                      |  |                                   |

## 9.2. Other information.

No data available.

## Section 10. Stability and Reactivity.

10.1. Hazardous polymerization: No

## 10.2. Possibility of hazardous reactions.

Hazardous polymerization: Possible polymerization reaction in the presence of water, amines, alkalis and alcohols

## 10.3. Conditions to avoid.

Avoid temperatures above 80°C (176°F)

## 10.4. Incompatible materials.

Polymerized by water, alcohol, amines, alkaline materials.

## 10.5. Hazardous decomposition products.

Carbon dioxide, Carbon monoxide and other toxic or irritating compounds may form when heated to decomposition. Oxides of nitrogen and probably hydrogen cyanide are also possible.

**Comments:** REACTIVITY: Rapid exothermic polymerization will occur in the presence of water, amines alkalis and alcohols.

## Section 11. Toxicological Information.

**ACUTE**

| Chemical Name         | ORAL LD <sub>50</sub> RAT | DERMAL LD <sub>50</sub> (rabbit) |
|-----------------------|---------------------------|----------------------------------|
| ETHYL-2-CYANOACRYLATE | >5000mg/kg                | >2000 mg/kg                      |
| Hydroquinone          | 367.3mg/kg                | >2000mg/kg                       |

**Dermal LD<sub>50</sub>:** >2000 mg/kg

**Notes:** (estimated)

**Oral LD<sub>50</sub>:** >5000 mg/kg

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**Notes:** (estimated)  
**Inhalation LC<sub>50</sub>:** Vapours may be irritating. Recommended TWA 0.2ppm.  
**Respiratory or Skin effects:** Possible skin sensitizer.  
**Carcinogenicity:**  
**IARC:** None known  
**NTP:** None known  
**OSHA:** None known.

12. Ecological Information.

This material should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water

13. Disposal Considerations.

**Disposal method:** Dispose of following all Local Authority requirements for disposal.

14. Transport Information.

**DOT (Department of Transportation):**  
**Proper shipping name:** Not regulated  
**Road and Rail (ADR/RID):**  
**Proper shipping name :** Not restricted  
**Air (ICAO/IATA):**  
**Shipping name:** ID8000 CONSUMER COMMODITY, 9(PKG LESS THAN OR EQUAL TO 30Kg G) or UN3334, AVIATION REGULATED LIQUID, N.O.S (ETHYL CANOACRYLATE0 , 9, 111 (LTD QTY, IP VOL < OR = TO 5.0L, OP WGT < OR = TO 30Kg\*)  
**Vessel (IMO/IMDG):**  
**Shipping name:** Not regulated  
\*This product may be shipped as excepted quantities of class 9. UN3334 (IP VOL < or = to 0.03L, OP VOL< or = to 1.0L)  
  
Customs code: 3506-1000000 Commodity code: 3506-100000

15. Regulatory Information.

United States.  
**SARA TITLE iii (Superfund Amendments and Reauthorization Act)**  
**311/312 Hazard categories:** immediate health, Delayed health, Fire, Reactive.  
**313 Reportable ingredients:** None above reporting de minimus.  
**302/304 Emergency plan:** None above reporting de minimus.  
  
**TSCA (toxic Substance Control Act)**  
Chemical name:  
ETHYL-2-CYANOACRLATE. CAS: 7085-85-0  
Polymethyl methacrylate: CAS: 9011-14-7  
Hydroquinone: 123-31-9  
  
**TSCA Status:** All components are listed on or are exempt from listing on the Toxic Substances Control Act.  
  
**Clean Air Act:**  
**40 CFR Part 68- Risk Management for Chemical Accident Release Prevention:** Not applicable.  
**California proposition 65:** No California proposition 65 ingredients are known to be in this product.  
**TSCA Status:** All components are listed or are exempt from listing on the Toxic Substances Control Act.

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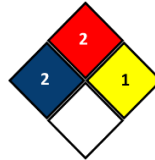
Clean Air Act

40 CFR Part 68 – Risk management for Chemical Accident Release Prevention: Not applicable

California proposition 65: Warning: This product can expose you to chemicals including Sulfur Dioxide, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

16. Other Information.

|                     |                          |
|---------------------|--------------------------|
| HEALTH              | 2                        |
| FLAMMABILITY        | 2                        |
| PHYSICAL HAZARD     | 1                        |
| PERSONAL PROTECTION | <input type="checkbox"/> |



NFPA Codes

HMIS Rating

16. Other information:

This product Safety data sheet was prepared in compliance with Commission Directive 91/155/EEC, 67/548/EEC and 1999/45/EC as well as their relevant amendments, on the approximation of laws, regulations and administrative provisions relative to the classification, packaging and labelling of dangerous substances and preparations.

This product should only be used as stated in Gauge Factors Ltd Literature. It is the responsibility of the persons in receipt of this Safety; Data Sheet to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in to contact with the product, If the recipient subsequently produces a formulation containing the Gauge Factors Ltd product, it is the recipients sole responsibility to ensure the transfer of all relevant information from the Gauge Factors Ltd Product Safety Data Sheet to their own product Safety Data Sheet in compliance with Commission directive 1999/45/EC.

All sections of this Safety Data Sheet have been amended since the previous version.

All information and instructions provided in the Safety Data Sheet (SDS) are based on the current state of scientific and technical knowledge at the date indicated on the present SDS. Gauge Factors Ltd shall not be held responsible for any defect in the product covered by this SDS, should the existence of such defect not be detectable considering the current state of scientific and technical knowledge.

N/k = not known  
N/a = not applicable  
N/d = not determined

**Disclaimer:** The information provided in this Safety data sheet is consistent with the information in the Chemical safety report, as far as this information was available at the time of compilation.

The information of this safety data sheet is based on the present state of our knowledge and on current EC and national laws, as the users' working conditions are beyond our knowledge and control. The user is always responsible for ensuring that the requirements of relevant legislation are complied with. the information contained in this Safety data sheet provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. The information provided relates only to the specific product designated and may not be valid for such product used in combination with any other product. The product must not be used for any purposes other than those specified without first obtaining written handling instructions.