SAFETY DATA SHEET
CS1500 CYANOACRYLATE ADHESIVE

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

1.1. Product identifier
Product name: CS1500 CYANOACRYLATE ADHESIVE
Index number: * 01-005-438
Product code: CS1500

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of substance/mixture: Cyanoacrylate adhesive

1.3. Details of the supplier of the safety data sheet
Company name: Chemence Ltd
Princewood Road
Earlstree Industrial Estate
Corby
Northants
NN17 4XD
United Kingdom
Tel: +44 (0) 1536 402 600
Fax: +44 (0) 1536 400 266
Email: technical@chemence.com

1.4. Emergency telephone number
Emergency tel: +44 (0) 1536 402 600 (9am - 5.30pm)

Section 2: Hazards identification

2.1. Classification of the substance or mixture
Classification under CHIP: Xi: R36/37/38
Classification under CLP: * STOT SE 3: H335; Eye Irrit. 2: H319; Skin Irrit. 2: H315; -: EUH202
Most important adverse effects: Irritating to eyes, respiratory system and skin.

2.2. Label elements
Label elements under CLP:
Hazard statements: * H315: Causes skin irritation.
H319: Causes serious eye irritation.
H335: May cause respiratory irritation.
Keep out of the reach of children.

Signal words: * Warning

[cont...]
SAFETY DATA SHEET
CS1500 CYANOACRYLATE ADHESIVE

Hazard pictograms: * GHS07: Exclamation mark

Precautionary statements: * P261: Avoid breathing vapours.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves.
P302+352: IF ON SKIN: Wash with plenty of soap and water.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+313: If eye irritation persists: Get medical attention.

Label elements under CHIP:
Hazard symbols: Irritant.

Risk phrases: R36/37/38: Irritating to eyes, respiratory system and skin.
Safety phrases: S23: Do not breathe vapour.
S24/25: Avoid contact with skin and eyes.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37: Wear suitable gloves.


2.3. Other hazards
PBT: This product is not identified as a PBT substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:
ETHYL-2-CYANOACRYLATE

<table>
<thead>
<tr>
<th>EINECS</th>
<th>CAS</th>
<th>CHIP Classification</th>
<th>CLP Classification</th>
<th>Per cent</th>
</tr>
</thead>
<tbody>
<tr>
<td>230-391-5</td>
<td>7085-85-0</td>
<td>Xi: R36/37/38</td>
<td>Eye Irrit. 2: H319; STOT SE 3: H335; Skin Irrit. 2: H315</td>
<td>&gt;80%</td>
</tr>
</tbody>
</table>

Section 4: First aid measures

4.1. Description of first aid measures
Skin contact: Do not pull bonded skin apart. Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water. Any bonded skin should be gently peeled apart, preferably after soaking in warm, soapy water. In the case of large spills on the skin, superficial burns may occur – treat accordingly. If irritation persists, obtain medical attention.

[cont...]
SAFETY DATA SHEET
CS1500 CYANOACRYLATE ADHESIVE

Eye contact: Bathe the eye with running water for 15 minutes. If the eyelid is bonded closed, do not force open. Cover with wet pad soaked in warm water. Get prompt medical attention, in case solid particles of cured cyanoacrylate trapped behind the eye cause any abrasive damage. Keep eye covered with wet pad until debonding is complete, usually 1-3 days. (Cyanoacrylate will bond to eye protein, causing a lachrymatory effect that aids debonding).

Ingestion: The product will polymerise immediately in the mouth, making it almost impossible to swallow, but beware of possible choking hazard. Ensure breathing passages are not obstructed. Saliva will separate the solidified product from the mouth over a period of hours. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. If symptoms persist, Consult a doctor.

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

Skin contact: Cyanoacrylates bond skin in seconds. In the case of large spills on the skin, superficial burns 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.

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.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

Delayed/Immediate effects: Immediate effects can be expected after short-term exposure.

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

Immediate/special treatment: Eye bathing equipment should be available on the premises.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Alcohol resistant foam. Dry chemical powder. Carbon dioxide. Use water spray to cool containers.

5.2. Special hazards arising from the substance or mixture


5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

[cont...]
SAFETY DATA SHEET
CS1500 CYANOACRYLATE ADHESIVE

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Evacuate the area immediately. Refer to section 8 of SDS for personal protection details. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. (do not use cloths). Transfer to a closable, labelled salvage container for disposal by an appropriate method. Or polymerise slowly with water (~10:1, adhesive : water) and then scrape up.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air. Ambient humidity should be >35% to minimise discomfort.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in cool, well ventilated area. Keep away from direct sunlight. Keep container tightly closed. Keep away from sources of ignition. Refrigerated storage (2 - 8°C) is recommended for optimum shelf-life.

Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

Specific end use(s): Adhesive

Section 8: Exposure controls/personal protection

8.1. Control parameters

Hazardous ingredients:

ETHYL-2-CYANOACRYLATE

<table>
<thead>
<tr>
<th>Workplace exposure limits:</th>
<th>Respirable dust</th>
</tr>
</thead>
<tbody>
<tr>
<td>State</td>
<td>8 hour</td>
</tr>
<tr>
<td>UK</td>
<td>-</td>
</tr>
</tbody>
</table>

[cont...]
SAFETY DATA SHEET
CS1500 CYANOACRYLATE ADHESIVE

8.1. DNEL/PNEC Values
DNEL/PNEC: No data available.

8.2. Exposure controls
Engineering measures: Ensure there is sufficient ventilation of the area. Ensure all engineering measures mentioned in section 7 of SDS are in place.
Respiratory protection: If WEL is likely to be exceeded, respiratory protective equipment will be needed.
Gas/vapour filter, type A: organic vapours (EN141).
Hand protection: Nitrile gloves. Viton gloves.
Eye protection: Safety glasses with side-shields. Ensure eye bath is to hand.
Skin protection: Protective clothing.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties
State: Liquid
Colour: Colourless
Odour: Acrid
Evaporation rate: Negligible
Oxidising: Non-oxidising (by EC criteria)
Solubility in water: Reacts with water.
Also soluble in: Acetone.
Viscosity: Highly viscous
Kinematic viscosity: 1500 cPs
Viscosity test method: Rotational viscometer
Boiling point/range°C: >150
Flash point°C: >85
Part.coeff. n-octanol/water: est.<1
Vapour pressure: ~0.04mmHg @25°C
Relative density: ~1.10

9.2. Other information
Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity
Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability
Chemical stability: Stable under normal conditions. Polymerises rapidly with water.

10.3. Possibility of hazardous reactions
Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions. Polymerisation may occur on exposure to conditions or materials listed below. Polymerisation can be rapid.

10.4. Conditions to avoid

[cont...]
SAFETY DATA SHEET
CS1500 CYANOACRYLATE ADHESIVE

10.5. Incompatible materials

10.6. Hazardous decomposition products

Section 11: Toxicological information

11.1. Information on toxicological effects
Hazardous ingredients:

ETHYL-2-CYANOACRYLATE

<table>
<thead>
<tr>
<th>ORL</th>
<th>RAT</th>
<th>LD50</th>
<th>&gt;5</th>
<th>ml/kg</th>
</tr>
</thead>
</table>

Relevant effects for mixture:

<table>
<thead>
<tr>
<th>Effect</th>
<th>Route</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Irritation</td>
<td>OPT INH DRM</td>
<td>Hazardous: calculated</td>
</tr>
</tbody>
</table>

Symptoms/routes of exposure

Skin contact: Cyanoacrylates bond skin in seconds. In the case of large spills on the skin, superficial burns 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.

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.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

Delayed/immediate effects: Immediate effects can be expected after short-term exposure.

Section 12: Ecological information

12.1. Toxicity
Ecotoxicity values: No data available.

12.2. Persistence and degradability
Persistence and degradability: No data available.

12.3. Bioaccumulative potential
Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil
Mobility: Considered to be very low due to rapid polymerisation with water.

[cont...]
SAFETY DATA SHEET
CS1500 CYANOACRYLATE ADHESIVE

Page: 7

12.5. Results of PBT and vPvB assessment
PBT identification: This product is not identified as a PBT substance.

12.6. Other adverse effects
Other adverse effects: Negligible ecotoxicity.

Section 13: Disposal considerations

13.1. Waste treatment methods
Disposal operations: Transfer to a suitable container and arrange for collection by
specialised disposal company. Or polymerise slowly with water
(10:1, adhesive : water). Hardened product can be disposed of in
land-fill sites by licensed contractors.

Waste code number: 08 04 09
Disposal of packaging: Dispose of in a regulated landfill site or other method for
hazardous or toxic wastes.

NB: The user’s attention is drawn to the possible existence of regional
or national regulations regarding disposal.

Section 14: Transport information

14.1. UN number
UN number: UN3334

14.2. UN proper shipping name
Shipping name: AVIATION REGULATED LIQUID, N.O.S.
(ETHYL-2-CYANOACRYLATE)

14.3. Transport hazard class(es)
Transport class: 9

14.4. Packing group
Packing group: III

14.5. Environmental hazards
Environmentally hazardous: No  Marine pollutant: No

14.6. Special precautions for user

Section 15: Regulatory information

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

15.2. Chemical Safety Assessment
Chemical safety assessment: A chemical safety assessment has not been carried out for the
substance or the mixture by the supplier.

[cont...]
Section 16: Other information

Other information:
This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.
* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and 3:
Keep out of the reach of children.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H335: May cause respiratory irritation.
R36/37/38: Irritating to eyes, respiratory system and skin.

Legal disclaimer:
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Chemence Ltd. and/or its agents cannot accept any liability for the use of information contained in this data sheet or for the use, application or processing of the product described in this data sheet. Users should note the possibility of hazards occurring due to improper uses of the product.