SAFETY DATA SHEET
Delta D512 Cyanoacrylate Activator

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier
Product name Delta D512 Cyanoacrylate Activator
Product No. D512

1.2. Relevant identified uses of the substance or mixture and uses advised against
Identified uses Activator For Cyanoacrylate Adhesives

1.3. Details of the supplier of the safety data sheet
Supplier Delta Adhesives Ltd
Units 39-41 Claycliffe Business Park
Cannon Way, Barugh Green
Barnsley, South Yorkshire
S75 1JU
Tel: 01226 381 571
Fax: 01226 381722
www.delta-adhesives.co.uk

1.4. Emergency telephone number
National Emergency Telephone Number
Delta Adhesives Ltd +44 (0) 1226 381 571 (Mon-Fri 09:00 - 17:00)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture
Classification (EC 1272/2008)
Physical and Chemical Hazards Flam. Aerosol 1 - H222
Human health Skin Irrit. 2 - H315;STOT SE 3 - H336
Environment Aquatic Chronic 2 - H411
The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Human health
In high concentrations, vapours and spray mists are narcotic and may cause headache, fatigue, dizziness and nausea.

Environment
The product contains a substance which is toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

Physical and Chemical Hazards
Pressurised container: Must not be exposed to temperatures above 50C. The product is extremely flammable, and explosive vapour/air mixtures may be formed even at normal room temperatures.

2.2. Label elements
Label In Accordance With (EC) No. 1272/2008

Signal Word Danger
Hazard Statements
H222 Extremely flammable aerosol.
**Delta D512 Cyanoacrylate Activator**

H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

### Precautionary Statements

- **P210** Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- **P211** Do not spray on an open flame or other ignition source.
- **P251** Pressurized container: Do not pierce or burn, even after use.
- **P261** Avoid breathing vapour/spray.
- **P271** Use only outdoors or in a well-ventilated area.
- **P273** Avoid release to the environment.
- **P410+412** Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.
- **P501** Dispose of contents/container in accordance with national regulations.

### Supplementary Precautionary Statements

- **P302+352** IF ON SKIN: Wash with plenty of soap and water.
- **P304+340** IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

### 2.3. Other hazards

H229 Pressurised container: May burst if heated.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2. Mixtures

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<th>Low boiling Point Hydrogen Treated Naphtha- Naphtha (Petroleum) Hydrotreated Light</th>
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<td>Xi;R38.</td>
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<td>STOT SE 3 - H336</td>
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<td>Asp. Tox. 1 - H304</td>
<td>N;R51/53.</td>
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<td>Aquatic Chronic 2 - H411</td>
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<td>F+;R12.</td>
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<td>EC No.: 203-448-7</td>
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<td>F+;R12.</td>
</tr>
</tbody>
</table>
The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information
Move the exposed person to fresh air at once.

Inhalation
Move the exposed person to fresh air at once. Perform artificial respiration if breathing has stopped. Keep the affected person warm and at rest. Get prompt medical attention.

Ingestion
Immediately rinse mouth and provide fresh air. DO NOT induce vomiting if swallowed chemical is dissolved in petroleum-based material. Danger of aspiration and development of chemical pneumonia. Get medical attention if any discomfort continues.

Skin contact
Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

Eye contact
Immediately rinse with water. Continue to rinse for at least 15 minutes. Make sure to remove any contact lenses from the eyes before rinsing. Get medical attention promptly if symptoms occur after washing.

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

General information
Prolonged and repeated contact with solvents over a long period may lead to permanent health problems. The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

Inhalation
In case of overexposure, organic solvents may depress the central nervous system causing dizziness and intoxication, and at very high concentrations unconsciousness and death.

Ingestion
Fumes from the stomach contents may be inhaled resulting in the same symptoms as inhalation. May cause nausea, headache, dizziness and intoxication.

Skin contact
Prolonged skin contact may cause redness and irritation.

Eye contact
Prolonged contact may cause redness and/or tearing.
4.3. Indication of any immediate medical attention and special treatment needed

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media
Extinguishing media
- Water spray, foam, dry powder or carbon dioxide.
- Unsuitable extinguishing media
  - Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture
Hazardous combustion products
- Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.
- Unusual Fire & Explosion Hazards
  - Extremely flammable. Forms explosive mixtures with air. May explode in a fire. Vapours are heavier than air and may spread near ground to sources of ignition.
Specific hazards
  - Aerosol containers can explode when heated, due to excessive pressure build-up.

5.3. Advice for firefighters
Special Fire Fighting Procedures
- Containers close to fire should be removed immediately or cooled with water. Cool containers exposed to flames with water until well after the fire is out.
- Protective equipment for fire-fighters
  - Self contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures
Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area. For personal protection, see section 8.

6.2. Environmental precautions
Avoid discharge into drains, water courses or onto the ground. Contain spillages with sand, earth or any suitable adsorbent material.

6.3. Methods and material for containment and cleaning up
Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Absorb in vermiculite, dry sand or earth and place into containers. Provide ventilation and confine spill. Do not allow runoff to sewer.

6.4. Reference to other sections
Wear protective clothing as described in Section 8 of this safety data sheet. For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling
Keep away from heat, sparks and open flame. Read and follow manufacturer's recommendations. Avoid inhalation of vapours and spray mists. Do not eat, drink or smoke when using the product. Provide good ventilation.

7.2. Conditions for safe storage, including any incompatibilities
- Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C. Store at moderate temperatures in dry, well ventilated area.
- Forms flammable vapours heavier than air vapour. Provide ventilation.
- Storage Class
  - Extremely Flammable Aerosol

7.3. Specific end use(s)
Activator For Cyanoacrylate Adhesives
Delta D512 Cyanoacrylate Activator

Usage Description
Apply spray to substrate requiring activation and allow solvent to evaporate. Bring the activated substrate into contact with another substrate coated with the cyanoacrylate adhesive. A rapid bond should be formed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

<table>
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<tr>
<th>Name</th>
<th>STD</th>
<th>TWA - 8 Hrs</th>
<th>STEL - 15 Min</th>
<th>Notes</th>
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<td>BUTANE/ISOBUTANE</td>
<td>WEL 600 ppm</td>
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<td>750 ppm</td>
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<td>HEXANE-norm</td>
<td>WEL 20 ppm</td>
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<td>1000 mg/m3</td>
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<tr>
<td>PROPANE</td>
<td>WEL 1000 ppm</td>
<td>1800 mg/m3</td>
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WEL = Workplace Exposure Limit.

8.2. Exposure controls

Protective equipment

Process conditions
Ensure suitable ventilation of area.

Engineering measures
Provide adequate ventilation.

Respiratory equipment
No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit.

Hand protection
Protective gloves should be used if there is a risk of direct contact or splash. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

Eye protection
Wear approved, tight fitting safety glasses where splashing is probable.

Other Protection
Provide eyewash station.

Hygiene measures
Wash promptly with soap & water if skin becomes contaminated. When using do not eat, drink or smoke.

Personal protection
Wear protective work clothing.

Skin protection
Wear suitable gloves if prolonged or repeated skin contact is likely

Environmental Exposure Controls
Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance: Aerosol container containing a mixture of active ingredients, solvents and propellants
Colour: Colourless. Light (or pale).
Odour: Hydrocarbon.
Solubility: Insoluble in water
9.2. Other information
Not applicable.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity
Exothermic reaction with: Cyanoacrylates

10.2. Chemical stability
Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions
Will react exothermically with cyanoacrylates. No known hazardous reactions if stored under normal conditions.
Hazardous Polymerisation
Will not polymerise.

10.4. Conditions to avoid
Avoid heat, flames and other sources of ignition. Avoid exposure to high temperatures or direct sunlight.

10.5. Incompatible materials
Materials To Avoid
Small quantities of this activator can cause large quantities of cyanoacrylate materials to polymerise extremely exothermically.

10.6. Hazardous decomposition products
Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

General information
Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.

Inhalation
High exposures may cause an abnormal heart rhythm and prove suddenly fatal. Very high atmospheric concentrations may cause anaesthetic effects and asphyxiation.

Ingestion
May cause soreness and redness of mouth and throat.

Skin contact
Irritating to skin. Prolonged and frequent contact may cause redness and irritation.

Eye contact
Spray and vapour in the eyes may cause irritation and smarting.

Health Warnings
Concentrating and inhaling the gas/spray can lead to abnormal heart rhythms and possibly death.

Route of entry
Inhalation.

Target Organs
Respiratory system, lungs Central nervous system
Delta D512 Cyanoacrylate Activator

Medical Symptoms
Narcotic effect. Drowsiness. Dizziness.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity
The product contains substances which are toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment. Do not allow to enter drains, sewers or watercourses.

12.1. Toxicity
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

12.2. Persistence and degradability
Biodegradable in part only.
Degradability
The degradability of the product has not been stated.

12.3. Bioaccumulative potential
Bioaccumulative potential
Readily evaporates from water/soil due to high volatility.

12.4. Mobility in soil
Mobility:
The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces. The product is immiscible with water and will spread on the water surface.

12.5. Results of PBT and vPvB assessment
Not determined

12.6. Other adverse effects
None known.

SECTION 13: DISPOSAL CONSIDERATIONS

General information
Ensure containers are empty before discarding (explosion risk). Do not puncture or incinerate even when empty. Dispose of waste and residues in accordance with local authority requirements.

13.1. Waste treatment methods
Make sure containers are empty before discarding (explosion risk). Ensure container is empty and dispose of in accordance with Local Authority regulations. Do not pierce or incinerate even when container is empty.

Waste Class
Full or Partially Empty Aerosol: 16 05 04, Empty Aerosol: 15 01 10 (Containing hazardous residues). Empty Aerosol: 15 01 04 (No hazardous residues).

SECTION 14: TRANSPORT INFORMATION

General
This product is packed in accordance with the Limited quantity Provisions of CDG CPL2, ADR and IMDG. These provisions allow the transport of aerosols of less than 1 litre packed in cartons of less than 30kg gross weight to be exempt from control providing they are labelled in accordance with the requirements of those regulations to show that they are transported as Limited Quantities. Aerosols not so packed must show the following.

14.1. UN number
UN No. (ADR/RID/ADN) 1950

14.2. UN proper shipping name
Proper Shipping Name AEROSOLS

14.3. Transport hazard class(es)
Delta D512 Cyanoacrylate Activator

ADR/RID/ADN Class 2. 5F
ADR/RID/ADN Class Class 2.1: Flammable gases.
ADR Label No. 2.1
IMDG Class 2.1
ICAO Class/Division 2.1
Transport Labels

14.4. Packing group
Not applicable.
ADR/RID/ADN Packing group #
IMDG Packing group #
ICAO Packing group #

14.5. Environmental hazards
Environmentally Hazardous Substance/Marine Pollutant No.

14.6. Special precautions for user
EMS F-D, S-U
Tunnel Restriction Code (D)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not applicable.

SECTION 15: REGULATORY INFORMATION

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

Uk Regulatory References
Statutory Instruments
Control of Substances Hazardous to Health.
Approved Code Of Practice
Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.
Guidance Notes
ECHA: Guidance on the Compilation of safety data sheets. (V1.1, December 2011)
EU Legislation
Delta D512 Cyanoacrylate Activator

National Regulations

15.2. Chemical Safety Assessment
No chemical safety assessment has been carried out.

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<th>SECTION 16: OTHER INFORMATION</th>
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Disclaimer
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