# Delta D404 Cyanocrylate Activator

According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) No 453/2010

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

### 1.1. Product identifier

**Product name** Delta D404 Cyanocrylate Activator

**Product number** D404

**Container size** 200ml

**REACH registration notes** All chemicals used in this product have been registered under REACH where required.

### 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 381 722
Web: 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 hazards** Aerosol 1 - H222, H229

**Health hazards** Skin Irrit. 2 - H315 STOT SE 3 - H336

**Environmental hazards** Aquatic Chronic 2 - H411

**Human health** Vapours and spray/mists in high concentrations are narcotic. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting.

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

**Physicochemical** Pressurised container: Must not be exposed to temperatures above 50C. The product is extremely flammable.

## 2.2. Label elements

**Pictogram**

| | |
|---|---|
| **Signal word** | Danger |
| **Hazard statements** | H222 Extremely flammable aerosol.<br>H229 Pressurised container: may burst if heated.<br>H315 Causes skin irritation.<br>H336 May cause drowsiness or dizziness.<br>H411 Toxic to aquatic life with long lasting effects. |
| **Precautionary statements** | P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.<br>P211 Do not spray on an open flame or other ignition source.<br>P251 Do not pierce or burn, even after use.<br>P261 Avoid breathing vapour/ spray.<br>P273 Avoid release to the environment.<br>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.<br>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.<br>P308+P313 IF exposed or concerned: Get medical advice/ attention.<br>P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.<br>P501 Dispose of contents/ container in accordance with national regulations. |
| **Supplemental label information** | Please refer to Safety Data Sheet.<br>EUH018 In use may form flammable/explosive vapour-air mixture. |
| **Contains** | Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane, HEXANE-norm |
| **Supplementary precautionary statements** | P264 Wash contaminated skin thoroughly after handling.<br>P271 Use only outdoors or in a well-ventilated area.<br>P302+P352 IF ON SKIN: Wash with plenty of water.<br>P312 Call a POISON CENTRE/doctor if you feel unwell.<br>P332+P313 If skin irritation occurs: Get medical advice/ attention.<br>P362+P364 Take off contaminated clothing and wash it before reuse.<br>P405 Store locked up. |

## 2.3. Other hazards

In use, may form flammable/ explosive vapour-air mixture. This product does not contain any substances classified as PBT or vPvB.

# SECTION 3: Composition/information on ingredients

## 3.2. Mixtures

| | | |
|---|---|---|
| **Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane** | | **30-60%** |
| CAS number: — | EC number: 921-024-6 | REACH registration number: 01-2119475514-35-XXXX |

**Classification**
Flam. Liq. 2 - H225
Skin Irrit. 2 - H315
STOT SE 3 - H336
Asp. Tox. 1 - H304
Aquatic Chronic 2 - H411

| | | |
|---|---|---|
| **PETROLEUM GASES, LIQUEFIED; PETROLEUM GAS <0.1% 1,3 BUTADIENE** | | **30-60%** |
| CAS number: 68476-85-7 | EC number: 270-704-2 | |

**Classification**
Flam. Gas 1 - H220
Press. Gas (Liq.) - H280

| | | |
|---|---|---|
| **N,N-DIMETHYL-P-TOLUIDINE** | | **<1%** |
| CAS number: 99-97-8 | EC number: 202-805-4 | REACH registration number: 01-2119937766-23 |

**Classification**
Acute Tox. 3 - H301
Acute Tox. 3 - H311
Acute Tox. 2 - H330
STOT RE 2 - H373
Aquatic Chronic 3 - H412

**Classification (67/548/EEC or 1999/45/EC)**
T;R23/24/25. R33.

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 affected person to fresh air at once.

**Inhalation** Move affected person to fresh air at once. If breathing stops, provide artificial respiration. Keep affected person warm and at rest. Get medical attention immediately.

**Ingestion** Rinse mouth thoroughly with water. Do not induce vomiting. Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis. Get medical attention if any discomfort continues.

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

**Eye contact** Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Remove any contact lenses and open eyelids wide apart. 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 dependent on 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

| | |
|---|---|
| **Notes for the doctor** | Treat symptomatically. |

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

| | |
|---|---|
| **Suitable 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

| | |
|---|---|
| **Specific hazards** | Containers can burst violently or explode when heated, due to excessive pressure build-up. Extremely flammable. Forms explosive mixtures with air. May explode when heated or when exposed to flames or sparks. Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back. |
| **Hazardous combustion products** | Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. |

### 5.3. Advice for firefighters

| | |
|---|---|
| **Protective actions during firefighting** | Containers close to fire should be removed or cooled with water. 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** | Ensure suitable respiratory protection is worn during removal of spillages in confined areas. For personal protection, see Section 8. |

### 6.2. Environmental precautions

| | |
|---|---|
| **Environmental precautions** | Avoid discharge into drains or watercourses or onto the ground. Contain spillage with sand, earth or other suitable non-combustible material. |

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

| | |
|---|---|
| **Methods for cleaning up** | Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Absorb in vermiculite, dry sand or earth and place into containers. Provide adequate ventilation. Contain spillage with sand, earth or other suitable non-combustible material. Avoid the spillage or runoff entering drains, sewers or watercourses. |

### 6.4. Reference to other sections

**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

**Usage precautions** 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 adequate ventilation.

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

**Storage precautions** 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)

**Specific end use(s)** Activator For Cyanoacrylate Adhesives

**Usage description** Apply spray to substrate requiring activation and allow solvent to evaporate. Bring the activatived 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

**Occupational exposure limits**

**PETROLEUM GASES, LIQUEFIED; PETROLEUM GAS <0.1% 1,3 BUTADIENE**

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1750 mg/m³
Short-term exposure limit (15-minute): WEL 1250 ppm 2180 mg/m³
WEL = Workplace Exposure Limit

**Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane**

**DNEL**
Consumer - Oral; Long term systemic effects: 699 mg/kg/day
Workers - Oral; Long term systemic effects: 2035 mg/kg/day
Consumer - Dermal; Long term systemic effects: 699 mg/kg/day
Workers - Dermal; Long term systemic effects: 773 mg/kg/day
Consumer - Inhalation; Long term systemic effects: 608 mg/m³

**Hydrocarbons, C6, isoalkanes, <5% n-hexane (CAS: 64742-49-0)**

**DNEL**
Consumer - Oral; Long term systemic effects: 1301 mg/kg
Consumer - Dermal; Long term systemic effects: 1377 mg/kg
Workers - Dermal; Long term systemic effects: 13964 mg/kg
Consumer - Inhalation; Long term systemic effects: 1131 mg/m³
Workers - Inhalation; Long term systemic effects: 5306 mg/m³

### 8.2. Exposure controls

**Protective equipment**

| | |
|---|---|
| **Appropriate engineering controls** | Provide adequate ventilation. |
| **Personal protection** | Wear protective work clothing. |
| **Eye/face protection** | Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses. |
| **Hand protection** | Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. Wear protective gloves made of the following material: Nitrile rubber. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. |
| **Other skin and body protection** | Provide eyewash station. Wear suitable gloves if prolonged or repeated skin contact is likely |
| **Hygiene measures** | Ensure suitable ventilation of area. Wash promptly with soap and water if skin becomes contaminated. When using do not eat, drink or smoke. |
| **Respiratory protection** | No specific recommendations. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit. |
| **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** | Hydrocarbons. |
| **Solubility(ies)** | Insoluble in water. |
| **Comments** | A flash point method is not available but the major hazardous component, the Propellant has a flash point of <-60°C with flammability limits of 10.9%  vol. upper and 1.4% vol. lower. |

### 9.2. Other information

| | |
|---|---|
| **Other information** | Not applicable. |
| **Volatile organic compound** | This product contains a maximum VOC content of 605 g/l. |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

| | |
|---|---|
| **Reactivity** | Reactions with the following materials may generate heat: Cyanoacrylates |

### 10.2. Chemical stability

| | |
|---|---|
| **Stability** | Stable at normal ambient temperatures and when used as recommended. |

### 10.3. Possibility of hazardous reactions

| | |
|---|---|
| **Possibility of hazardous reactions** | Will react exothermically with cyanoacrylates. No known hazardous reactions if stored under normal conditions. Will not polymerise. |

### 10.4. Conditions to avoid

| | |
|---|---|
| **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

| | |
|---|---|
| **Hazardous decomposition products** | Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. |

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Acute toxicity - oral**

| | |
|---|---|
| **ATE oral (mg/kg)** | 50,000.0 |

**Acute toxicity - dermal**

| | |
|---|---|
| **ATE dermal (mg/kg)** | 150,000.0 |

**Acute toxicity - inhalation**

| | |
|---|---|
| **ATE inhalation (gases ppm)** | 50,000.0 |
| **ATE inhalation (vapours mg/l)** | 250.0 |
| **ATE inhalation (dusts/mists mg/l)** | 25.0 |

| | |
|---|---|
| **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** | Vapour or spray in the eyes may cause irritation and smarting. |
| **Acute and chronic health hazards** | Concentrating and inhaling the gas/spray can lead to abnormal heart rhythms and possibly death. |
| **Route of exposure** | Inhalation |
| **Target organs** | Respiratory system, lungs Central nervous system |
| **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. Avoid the spillage or runoff entering drains, sewers or watercourses. |

### 12.1. Toxicity

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

### 12.2. Persistence and degradability

| | |
|---|---|
| **Persistence and degradability** | Biodegradable in part only. The degradability of the product is not known. |

### 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 (VOCs) 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

**Results of PBT and vPvB assessment** Not determined

### 12.6. Other adverse effects

**Other adverse effects** None known.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**General information** Ensure containers are empty before discarding (explosion risk). Do not puncture or incinerate, even when empty. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

**Disposal methods** Containers should be thoroughly emptied before disposal because of the risk of an explosion. 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 CDGCPL2, 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)** 1950

### 14.2. UN proper shipping name

**Proper shipping name (ADR/RID)** AEROSOLS

**Proper shipping name (IMDG)** AEROSOLS

**Proper shipping name (ICAO)** AEROSOLS

**Proper shipping name (ADN)** AEROSOLS

### 14.3. Transport hazard class(es)

**ADR/RID class** 2, 5F

**ADR/RID label** 2.1

**IMDG class** 2.1

**ICAO class/division** 2.1

**Transport labels**


### 14.4. Packing group

Not applicable.

| | |
|---|---|
| **ADR/RID 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 MARPOL and the IBC Code

| | |
|---|---|
| **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** | Not applicable. |

## SECTION 15: Regulatory information

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

| | |
|---|---|
| **National regulations** | The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).<br>The Aerosol Dispensers Regulations 2009 (SI 2009 No. 2824).<br>The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].<br>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), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.<br>The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].<br>Control of Substances Hazardous to Health Regulations 2002 (as amended).<br>The Aerosol Dispensers Regulations 2009 (SI 2009 No. 2824). |
| **EU legislation** | Dangerous Preparations Directive 1999/45/EC.<br>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).<br>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). |

| | |
|---|---|
| **Guidance** | ECHA: Guidance on the Compilation of safety data sheets. (V3.1, November 2015)<br>Safety Data Sheets for Substances and Preparations.<br>Approved Classification and Labelling Guide (Sixth edition) L131. |
| **Authorisations (Title VII Regulation 1907/2006)** | No specific authorisations are known for this product. |
| **Restrictions (Title VIII Regulation 1907/2006)** | No specific restrictions on use are known for this product. |

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

| | |
|---|---|
| **Classification procedures according to Regulation (EC) 1272/2008** | Aerosol 1 - H222, H229: Weight of evidence. Skin Irrit. 2 - H315, STOT SE 3 - H336, Aquatic Chronic 2 - H411: Calculation method. |
| **Issued by** | Technical Department |
| **Revision date** | 23/09/2014 |
| **Revision** | 4 |
| **Supersedes date** | 27/06/2014 |
| **SDS number** | 10808 |
| **Hazard statements in full** | H220 Extremely flammable gas.<br>H222 Extremely flammable aerosol.<br>H225 Highly flammable liquid and vapour.<br>H229 Pressurised container: may burst if heated.<br>H280 Contains gas under pressure; may explode if heated.<br>H301 Toxic if swallowed.<br>H304 May be fatal if swallowed and enters airways.<br>H311 Toxic in contact with skin.<br>H315 Causes skin irritation.<br>H330 Fatal if inhaled.<br>H336 May cause drowsiness or dizziness.<br>H361 Suspected of damaging fertility or the unborn child.<br>H373 May cause damage to organs through prolonged or repeated exposure.<br>H411 Toxic to aquatic life with long lasting effects.<br>H412 Harmful to aquatic life with long lasting effects. |



Delta Adhesives Limited, Units 39-40 Claycliffe Business Park,
Cannon Way, Barugh Green, Barnsley, South Yorkshire, S75 1JU,
Tel: +44 (0) 1226 381 571 email: sales@delta-adhesives.co.uk