

# **Delta D406 Surface Preparation Cleaner**

According to Regulation (EC) No 1907/2006, Annex II, as amended. Commission Regulation (EU) No 2015/830 of 28 May 2015.

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

1.1. Product identifier

Product name Delta D406 Surface Preparation Cleaner

Product number D406

Container size 400ml

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

Identified uses Cleaning Solvent.

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

Emergency telephone 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** Eye Irrit. 2 - H319 STOT SE 3 - H336

Environmental hazards Not Classified

2.2. Label elements

Pictogram





Signal word Danger



Hazard statements H222 Extremely flammable aerosol.

H229 Pressurised container: may burst if heated.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Precautionary statements P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P261 Avoid breathing spray.

P264 Wash contaminated skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

P501 Dispose of contents/ container in accordance with national regulations.

P403+P235 Store in a well-ventilated place. Keep cool.

Supplemental label

information

EUH066 Repeated exposure may cause skin dryness or cracking.

Contains ACETONE

Supplementary precautionary

statements

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P312 Call a POISON CENTRE/doctor if you feel unwell.

P337+P313 If eye irritation persists: Get medical advice/ attention.

#### 2.3. Other hazards

Containers should be thoroughly emptied before disposal because of the risk of an explosion. Prolonged or repeated contact with skin may cause irritation, redness and dermatitis. In use may form flammable/explosive vapour-air mixture. Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back. This product does not contain any substances classified as PBT or vPvB.

### SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

ACETONE 30-60%

CAS number: 67-64-1 EC number: 200-662-2 REACH registration number: 01-

2119471330-49-XXXX

Classification

Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SF 3 - H336

## PETROLEUM GASES, LIQUEFIED; PETROLEUM GAS

30-60%

<0.1% 1,3 BUTADIENE

Classification

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

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.



CAS 68476-85-7 - Petroleum Gas, The substance contains less than 0.1% w/w 1,3-

butadiene, meaning that the full harmonised classification regarding Muta. 1B H340 and Carc.

1A H350 does not apply.

### SECTION 4: First aid measures

### 4.1. Description of first aid measures

General information Move affected person to fresh air at once. Show this Safety Data Sheet to the medical

personnel.

**Inhalation** Move affected person to fresh air and keep warm and at rest in a position comfortable for

breathing. Keep affected person under observation. If breathing stops, provide artificial

respiration. Get medical attention immediately.

**Ingestion** Rinse mouth thoroughly with water. Get medical attention. Do not induce vomiting.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. Get medical

attention if any discomfort continues.

**Eye contact** Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide

apart. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after

washing.

Protection of first aiders First aid personnel should wear appropriate protective equipment during any rescue.

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

General information The severity of the symptoms described will vary dependent on the concentration and the

length of exposure. Prolonged and repeated contact with solvents over a long period may lead

to permanent health problems.

**Inhalation** Coughing, chest tightness, feeling of chest pressure. Exposure may cause coughing or

wheezing. 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** There may be soreness and redness of the mouth and throat.

**Skin contact** Prolonged contact may cause redness, irritation and dry skin.

**Eye contact** There may be irritation and redness. Eyes may water profusely. Irritating to eyes.

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

**Notes for the doctor** Show this safety data sheet to the doctor in attendance. The following symptoms may occur:

Nausea, headache, dizziness, coughing and breathing difficulty.

### SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media Water spray, dry powder or carbon dioxide. Alcohol-resistant foam.

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.

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. Acrid smoke or fumes.

5.3. Advice for firefighters

Protective actions during firefighting

Use water to keep fire exposed containers cool and disperse vapours. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. Control runoff water by containing and keeping it out of sewers and watercourses.

Special protective equipment for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective

### SECTION 6: Accidental release measures

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

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet. Wear suitable

protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Do not breathe vapour. Avoid contact with eyes and prolonged skin

contact.

For non-emergency personnel For the greatest protection, clothing should include anti-static overalls, boots and gloves.

For emergency responders For the greatest protection, clothing should include anti-static overalls, boots and gloves.

6.2. Environmental precautions

Environmental precautions Contain the spillage using bunding. 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. Avoid the spillage or runoff entering drains, sewers or watercourses. Collect spillage for reclamation or disposal in sealed containers via a licensed waste contractor. Avoid water contacting spilled material or leaking containers. Approach the spillage from upwind. Take precautionary measures against static discharge. Use only non-sparking tools.

# 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8. See Section 7 for information on safe handling. 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. Static electricity and formation of sparks must

be prevented. Wear protective clothing as described in Section 8 of this safety data sheet. Read and follow manufacturer's recommendations. Do not use in confined spaces without adequate ventilation and/or respirator. Do not eat, drink or smoke when using this product.

Advice on general occupational hygiene

Do not eat, drink or smoke when using this product. Remove contaminated clothing and protective equipment before entering eating areas. Wash after use and before eating, smoking and using the toilet. Do not smoke in work area. Clean equipment and the work area every day.

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



Storage precautions Under normal conditions of handling and storage, spillages from aerosol containers are

unlikely. Store in tightly-closed, original container in a dry, cool and well-ventilated place. Avoid contact with oxidising agents. Store away from the following materials: Alkalis. Protect

from sunlight. Do not pierce or burn, even after use. Do not expose to temperatures

exceeding 50°C/122°F.

Storage class Extremely Flammable Aerosol

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

**Usage description**Store in a flammable storage cupboard according to national regulations. Solvent based

aerosol.

#### SECTION 8: Exposure controls/Personal protection

#### 8.1. Control parameters

### Occupational exposure limits

#### **ACETONE**

Long-term exposure limit (8-hour TWA): WEL 500 ppm 1210 mg/m<sup>3</sup> Short-term exposure limit (15-minute): WEL 1500 ppm 3620 mg/m<sup>3</sup>

### 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

# **ACETONE (CAS: 67-64-1)**

**DNEL** Consumer - Oral; Long term : 62 mg/kg/day

Consumer - Dermal; Long term : 62 mg/kg/day Industry - Dermal; Long term : 186 mg/kg/day Consumer - Inhalation; Long term : 200 mg/m³ Industry - Inhalation; Short term : 2420 mg/m³ Industry - Inhalation; Long term : 1210

PNEC - Fresh water; 10.6 mg/l

marine water; 1.06 mg/lIntermittent release; 21 mg/l

- Soil; 29.5 mg/l

Sediment (Marinewater); 3.04 mg/kgSediment (Freshwater); 30.4 mg/kg

### 8.2. Exposure controls

### Protective equipment





Appropriate engineering controls

Provide adequate ventilation. Ensure that the direction of airflow is clearly away from the worker. Use approved respirator if air contamination is above an acceptable level. Observe any occupational exposure limits for the product or ingredients. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof electrical, ventilating and lighting equipment. Ensure operatives are trained to minimise exposure. Refer to protective measures listed in sections 7 and 8.

Personal protection Wear

Wear protective work clothing.



**Eye/face protection** Wear chemical splash goggles. Personal protective equipment for eye and face protection

should comply with European Standard EN166.

Hand protection To protect hands from chemicals, gloves should comply with European Standard EN374.

(PE/PA/PE), 2.5mil (0.06mm), >480 min. Nitrile rubber. It should be noted that liquid may

penetrate the gloves. Frequent changes are recommended.

Other skin and body

protection

Provide eyewash station. Avoid contact with skin. Wear suitable coveralls to prevent exposure

to the skin.

Hygiene measures Promptly remove any clothing that becomes contaminated. Wash promptly if skin becomes

contaminated. When using do not eat, drink or smoke. Use appropriate hand lotion to prevent defatting and cracking of skin. Wash at the end of each work shift and before eating, smoking

and using the toilet.

Respiratory protection If ventilation is inadequate, suitable respiratory protection must be worn. In confined or poorly-

ventilated spaces, a supplied-air respirator must be worn. Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of

contaminants is possible. For short term use an AX filter is recommended.

Thermal hazards Spray will evaporate and cool rapidly and may cause frostbite or cold burns if in contact with

skin.

**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.

Odour Acetone. Ketonic.

Odour threshold No information available.

**pH** No information available.

Melting point No information available.

**Initial boiling point and range** 56°C Boiling point of base liquid

Flash point Scientifically unjustified. 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.

**Evaporation rate** No information available.

**Evaporation factor** No specific test data are available.

Upper/lower flammability or

explosive limits

No information available.

Vapour pressure No information available.

Vapour density No information available.

**Relative density** 0.8 @ 20°C Density of liquid base.

Solubility(ies) Soluble in water.

Partition coefficient Not available.

**Auto-ignition temperature** No information available.



**Decomposition Temperature** No information available.

**Explosive properties** In use may form flammable/explosive vapour-air mixture.

Oxidising properties The mixture itself has not been tested but none of the ingredient substances meet the criteria

for classification as oxidising.

9.2. Other information

Volatile organic compound This product contains a maximum VOC content of 664 g/l.

### SECTION 10: Stability and reactivity

10.1. Reactivity

**Reactivity** Stable under recommended transport or storage conditions.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended. Highly volatile.

10.3. Possibility of hazardous reactions

Possibility of hazardous

reactions

Will not polymerise. In use may form flammable/explosive vapour-air mixture.

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition. Containers can burst violently or explode

when heated, due to excessive pressure build-up. Avoid the accumulation of vapours in low or

confined areas.

10.5. Incompatible materials

Materials to avoid Strong acids. Strong oxidising agents. Strong alkalis.

10.6. Hazardous decomposition products

Hazardous decomposition

products

Oxides of carbon.

### 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 Skin irritation should not occur when used as recommended. Repeated exposure may cause

skin dryness or cracking.

**Eye contact** Vapour or spray in the eyes may cause irritation and smarting.

Acute and chronic health

hazards

Vapours in high concentrations are narcotic. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting. Arrhythmia (deviation from

normal heart beat).

Route of exposure Inhalation

Target organs Central nervous system Respiratory system, lungs

Medical symptoms Narcotic effect. Vapours may cause drowsiness and dizziness.



### Toxicological information on ingredients.

### **ACETONE**

**Toxicological effects** The toxicity of this substance has been assessed during REACH registration.

Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> 2,000.0

mg/kg)

**Species** Rabbit

Skin sensitisation

Skin sensitisation Epidemiological studies have shown no evidence of skin sensitisation.

Skin contact Irritating to skin.

Eye contact Irritating to eyes.

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

Information given is based on data of the components and of similar products. **Toxicological effects** 

Acute toxicity - oral

Notes (oral LD₅₀) Not applicable.

Acute toxicity - dermal

Notes (dermal LD₅₀) Not applicable.

Acute toxicity - inhalation

Notes (inhalation LC50) LC<sub>50</sub> >20 mg/l, Inhalation, Rat

Skin corrosion/irritation

Not irritating. Skin corrosion/irritation

Serious eye damage/irritation

Serious eye Not irritating.

damage/irritation

Respiratory sensitisation

Respiratory sensitisation Not sensitising.

Skin sensitisation

Skin sensitisation Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro This substance has no evidence of mutagenic properties.

Carcinogenicity

Carcinogenicity in humans is not expected. Carcinogenicity

Reproductive toxicity

Reproductive toxicity -

Based on available data the classification criteria are not met.

fertility



Reproductive toxicity -

development

Does not contain any substances known to be toxic to reproduction.

Specific target organ toxicity - single exposure

**STOT - single exposure** A single exposure may cause the following adverse effects: Overexposure to

organic solvents may depress the central nervous system, causing dizziness and

intoxication and, at very high concentrations, unconsciousness and death.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

**Aspiration hazard** Not anticipated to present an aspiration hazard, based on chemical structure.

**Inhalation** May cause respiratory system irritation.

Skin contact Spray will evaporate and cool rapidly and may cause frostbite or cold burns if in

contact with skin.

Route of exposure Inhalation Skin and/or eye contact

**SECTION 12: Ecological information** 

**Ecotoxicity** Avoid the spillage or runoff entering drains, sewers or watercourses.

Ecological information on ingredients.

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

**Ecotoxicity** Information given is based on data of the components and of similar products.

12.1. Toxicity

**Toxicity** The product is not believed to present a hazard due to its physical nature.

Ecological information on ingredients.

**ACETONE** 

Acute aquatic toxicity

Acute toxicity - fish LC50, 96 hours: >100 mg/l, Fish

Acute toxicity - aquatic

EC<sub>50</sub>, 48 hours: 12600 mg/l, Daphnia magna EC<sub>50</sub>, 48 hours: 8300 mg/l, Daphnia magna

Acute toxicity - aquatic

IC<sub>50</sub>, 72 hours: >100 mg/l, Algae

plants

Chronic aquatic toxicity

Chronic toxicity - aquatic

NOEC, 28 days: >10<100 mg/l, Freshwater invertebrates

invertebrates

invertebrates

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

**Toxicity** Not regarded as dangerous for the environment. The product is not believed to

present a hazard due to its physical nature. Highly volatile.

12.2. Persistence and degradability

Persistence and degradability The degradability of the product is not known.



# Ecological information on ingredients.

#### **ACETONE**

Persistence and degradability

The product is readily biodegradable.

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

Persistence and degradability

The product is readily biodegradable.

12.3. Bioaccumulative potential

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

Partition coefficient Not available.

Ecological information on ingredients.

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

Bioaccumulative potential Bioaccumulation is unlikely.

12.4. Mobility in soil

**Mobility** Volatile

Ecological information on ingredients.

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

Mobility The product contains volatile organic compounds (VOCs) which will evaporate

easily from all surfaces.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

Not determined

assessment

Ecological information on ingredients.

## **ACETONE**

Results of PBT and vPvB

This product does not contain any substances classified as PBT or vPvB.

assessment

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

**Results of PBT and vPvB** This product does not contain any substances classified as PBT or vPvB. assessment

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). Must not be disposed of

together with household waste.



**Disposal methods**Do not puncture or incinerate, even when empty. Avoid the spillage or runoff entering drains,

sewers or watercourses. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

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

### 14.1. UN number

UN No. (ADR/RID) 1950 UN No. (IMDG) 1950 UN No. (ICAO) 1950 UN No. (ADN) 1950

### 14.2. UN proper shipping name

Proper shipping name

**AEROSOLS** 

(ADR/RID)

Proper shipping name (IMDG) AEROSOLS
Proper shipping name (ICAO) AEROSOLS
Proper shipping name (ADN) AEROSOLS

# 14.3. Transport hazard class(es)

ADR/RID class 2.1

ADR/RID classification code 5F

ADR/RID label 2.1

IMDG class 2.1

ICAO class/division 2.1

ICAO subsidiary risk 2.1

ADN class 2.1

### Transport labels



# 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

2

No.

### 14.6. Special precautions for user

EmS F-D, S-U

ADR transport category



Tunnel restriction code (D)

#### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

### SECTION 15: Regulatory information

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

National regulations The Aerosol Dispensers Regulations 2009 (SI 2009 No. 2824).

Control of Substances Hazardous to Health Regulations 2002 (as amended).

Health and Safety at Work etc. Act 1974 (as amended).

**EU legislation** 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).

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).

Guidance Workplace Exposure Limits EH40.

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)

Aerosol 1 - H222, H229: Weight of evidence. Eye Irrit. 2 - H319: Calculation method. STOT

SE 3 - H336: Calculation method.

1272/2008

**Issued by** Technical Department

Revision date 14/11/2019

Revision 5

Supersedes date 21/02/2017

SDS number 11788

**Hazard statements in full** H220 Extremely flammable gas.

H222 Extremely flammable aerosol.
H225 Highly flammable liquid and vapour.
H229 Pressurised container: may burst if heated.

H280 Contains gas under pressure; may explode if heated.

H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.



