



SAFETY DATA SHEET

DELTA ADHESIVES

Brake Cleaner D415 Spray Aerosol

SECTION 1; IDENTIFICATION OF THE SUBSTANCES/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name	Brake Cleaner D415
Product No.	Brake clean 500ML

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

Identified uses	Brake and clutch Cleaner
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1.3. Details of the supplier of the data sheet

Supplier	Delta Adhesives Ltd Unit 39 – 40 Claycliffe Business Park Barugh Green Barnsley S75 1JU
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1.4. Emergency telephone number

+44 (0) 1226 381571
Mon – Thurs 0730-1730: Fri 0730-1400

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	Asp Tox 1 – H304, Eye Irrit. 2 – H319; Skin Irrit 2 – H315 STOT SE 3 – H336
Environmental hazards	Aquatic chronic 2 – H411

The full text for all Hazard statements are displayed in Section 16.

2.2 Label Elements

Label in Accordance with (EC) No. 1272/2008

**Signal word`**

Danger

Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurized container: may burst if heated
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness
H304	May be fatal if swallowed and enters airways
H411	Toxic to aquatic life with long lasting effects

Precautionary Statements

P102	Keep out of reach of children.
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.
P262	Do not get in eyes, on skin, or on clothing
P271	Use only outdoors or in a well ventilated area
P262	Do not get in eyes, on skin, or on clothing

Supplementary precautionary statements

P273	Avoid release to the environment.
P264	Wash contaminated skin thoroughly after handling
P301+310	IF SWALLOWED: immediately call a poison centre, or a doctor/physician
P304+340	IF INHALED: Remove victim to fresh air and keep at rest in Position comfortable for breathing.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue Rinsing.
P308+313	If exposed or concerned: Get medical advice/attention.
P410+412	Protect from sunlight. Do not expose to temperatures Exceeding 50°C/122°F.
P501	Dispose of contents/container in accordance with local Regulations.

Supplement label information**2.3. Other hazards**

Pressurised container. Protect from sunlight and do not expose to temperatures exceeding 50°C.
Do not pierce or burn even after use. Do not spray on naked flame or any incandescent material –
NO SMOKING.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

PETROLEUM GASES LIQUIFIED CAS- No.: 68476-85-7 Classification (EC 1272/2008) Flam. Gas 1 – H220	EC No.: 270-704-2	40-70%
PETROLEUM ETHER CAS – No: 64742-49-0 Classification (EC 1272/2008) Flam Liq 2;H225, Skin Irrit 2:H315 STOT SE 3;H336,Asp Tox 1;H304 Aquatic Chronic 2;H411	EC No.: 265-151-9	40-70%

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. Get medical attention if any discomfort continues.

Inhalation

Move the exposed person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Keep the affected person warm and at rest. Get prompt medical attention.

Ingestion

DO NOT induce vomiting. Rinse mouth with water. Get prompt medical attention.

Skin contact

Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

Eye Contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Extinguishing media

Fire can be extinguished using: foam; carbon dioxide; dry powder

5.2 Special hazards arising from the substance or mixture

Unusual fire & Explosion hazards.

Aerosol cans may explode in fire.

Carbon Oxides

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid breathing vapours. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to a safe area. Beware of vapours accumulating in low areas. For personal protection see Section 8.

6.2 Environmental precautions

Discharge into the environment must be avoided. Do not allow to enter drains.

6.3 Methods and material for containment and cleaning up

Wear necessary protective equipment. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Let evaporate. Keep out of confined spaces because of explosion risk. If leakage cannot be stopped, evacuate area.

6.4 Reference to other sections

Wear protective clothing as described in section 8 of this safety data sheet. Avoid inhalation of vapour or mist; avoid contact with skin or eyes.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.

7.2. Conditions for safe storage, including any incompatibilities

Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C.

7.3 Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

	STD	TWA – 8 Hrs		STEL – 15 Min		Notes
PETROLEUM GASES LIQUIFIED	WEL	1,000 ppm	1,250 mg/m ³	1,250 ppm	2,180 mg/m ³	UK EH40 WEL
PROPAN-2-OL	WEL	440ppm	999 mg/m ³	500ppm	1,250 mg/m ³	UK EH40 WEL
ETHANOL	WEL	1,000ppm	1,920 mg/m ³			

WEL = Workplace exposure limit.

8.2 Exposure controls

Protective equipment



Engineering measures

Provide adequate general and local exhaust ventilation.

Respiratory equipment

If ventilation is inadequate, suitable respiratory protection must be worn. Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Use respirators and components tested and approved under appropriate government standards such as CEN (EU).

Hand protection

Use protective gloves. These should satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Eye protection

Wear splash proof goggles to prevent any possibility of eye contact. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU)

Other protection

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

Hygiene measures

DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

(a) Appearance	Aerosol.
(b) Odour	Alcohol like
c) Odour Threshold	No data available
(d) pH	No data available
(e) Melting point/freezing point	No data available
(f) Initial boiling point and boiling range	40 (°C)
(g) Flash point	Estimated at -35°C
(h) Evaporation point	No data available
(i) Flammability (solid gas)	No data available
(j) Upper/lower flammability Or explosive limits	No data available
(k) Vapour pressure	No data available
(l) Vapour density	No data available
(m) Relative density	0.695-0.710 at 20°C
(n) Water solubility	Not miscible or difficult to mix
(o) Partition coefficient	

n-octanol/water	No data available
(p) Auto-ignition temperature	No data available
(q) Decomposition temperature	No data available
(r) Viscosity	No data available
(s) Explosive properties	No data available
(t) Oxidising properties	No data available.

9.2 Other information

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability

No data available.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Avoid heat, flames and other sources or ignition.

10.5 Incompatible materials

Materials to avoid

Strong acids, strong oxidising substances and strong alkalis. All sources of ignition.

10.6 Hazardous decomposition products

Carbon oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity

No data available.

Ingestion

May cause discomfort if swallowed.

Skin contact

No data available.

Eye contact

No data available.

Respiratory or skin sensitisation

No data available

Carcinogenicity

No data available

Additional information

No data available

SECTION 12: ECOLOGICAL INFORMATION**Ecotoxicity**

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

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bio accumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB Assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).

12.6 Other adverse effects

No data available

SECTION 13: DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Empty containers must not be burned because of explosion hazard.

Dispose of waste and residues in accordance with local authority requirements.

SECTION 14: TRANSPORT INFORMATION**14.1 UN Number**

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

14.2 UN proper shipping name

Proper shipping name – AEROSOLS

14.3 Transport hazard class(es)

ADR/RID/ADN class	2.1
ADR/RID/ADN class	Class 2: Gases
ADR Label No	2.1
IMDG Class	2.1
ICAO Class/division	2.1

CEFIC TEC® No	20GSF
Air Class	2.1
UK Road Class	2.1
Transport labels	L.Q.



14.4 Packing group

Not applicable.

14.5 Environmental hazards

Environmentally hazardous substance/marine pollutant.

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.

Statutory instruments

The chemicals (Hazard information and packaging for supply) regulations 2009 (S.I 2009 No. 716). Control of substances hazardous to health.

Approved code of practice.

Classification and labelling of substances and preparations dangerous for supply. Safety data sheets for substances and preparations.

Guidance notes

Workplace exposure limits EH40. Introduction to Local exhaust ventilation HS(G)37. CHIP for everyone HSG(108).

EU Legislation

Dangerous substance directive 67/548/EEC. Dangerous preparations directive 1999/45/EC. 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.

15.2 Chemical safety assessment

A chemical safety assessment was not carried out for this product,

SECTION 16: OTHER INFORMATION

General information

This product should be used as directed. For further information consult the product data sheet or contact technical services.

Information sources

This safety data sheet was compiled using current safety information supplied by distributor raw materials.

Hazard Statements in full

H220	Extremely flammable gas
H222	Extremely flammable material
H225	Highly flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness
H411	Toxic to aquatic life with long lasting effects
Asp Tox 2	Aspiration Toxicity Category 2
Eye Irrit 2	Eye irritant Category 2
Skin Irrit 2	Skin Irritant Category 2
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
STOT SE 3	Specific Target Organ Toxicity – Single Exposure – Category 3
Flam Gas 1	Flammable gas Category 1
Flam Liq 2	Flammable Liquid Category 2

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DISCLAIMER

The Information provided herein, especially recommendations for the usage and the application of this products, is provided in good faith, and no liability on the part of Delta Adhesives is stated or implied. No employee of Delta Adhesives has the authority to waive or alter in any way the content of this document.

Due to different materials used, as well as to varying working conditions, production techniques, and the requirements of the end users, all of which are beyond our control, we strongly recommend that thorough and extensive trials are carried out in order to test the suitability of our products with regard to the required processes and applications. This should also include an ageing test which should be applied to all substrates used.

It is also the responsibility of the purchaser and end user of this product to ensure that all appropriate actions necessary for the protection of the environment, and for the health and safety of their employees are observed.

This datasheet replaces all former versions

