

Delta 411 Spray Adhesive

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 411 Spray Adhesive
Container size	500ml
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	Spray Adhesive.
Uses advised against	Flexible PVC due to the risk of plasticiser migration.

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
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1.4. Emergency telephone number

Emergency telephone	Delta Adhesives Ltd +44 (0) 1226 381 571 (Mon-Fri 09:00 - 17:00)
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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 Eye Irrit. 2 - H319 Carc. 2 - H351 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. H315 Causes skin irritation. H319 Causes serious eye irritation. H351 Suspected of causing cancer. 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. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P308+P313 IF exposed or concerned: Get medical advice/ attention. P362+P364 Take off contaminated clothing and wash it before reuse. 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.
Contains	DICHLOROMETHANE, BUTANONE
Supplementary precautionary statements	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P261 Avoid breathing vapour/ spray. P264 Wash contaminated skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P302+P352 IF ON SKIN: Wash with plenty of water. 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. P321 Specific treatment (see medical advice on this label). P332+P313 If skin irritation occurs: Get medical advice/ attention. P337+P313 If eye irritation persists: Get medical advice/ attention. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up.

2.3. Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria. Dichloromethane is converted to carbon monoxide in the body, which reduces the oxygen carrying capacity of the blood. In use may form flammable/explosive vapour-air mixture. Vapours in high concentrations are anaesthetic. Overexposure to organic solvents may depress the central nervous system, causing dizziness and intoxication and, at very high concentrations, unconsciousness and death.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

PETROLEUM GASES, LIQUEFIED; PETROLEUM GAS	30-60%
<0.1% 1,3 BUTADIENE	
CAS number: 68476-85-7	EC number: 270-704-2
Classification Flam. Gas 1 - H220 Press. Gas (Liq.) - H280	

DICHLOROMETHANE 30-60%		
CAS number: 75-09-2	EC number: 200-838-9	REACH registration number: 01-2119480404-41
Classification Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Carc. 2 - H351 STOT SE 3 - H336		

BUTANONE 1-5%		
CAS number: 78-93-3	EC number: 201-159-0	REACH registration number: 01-2119457290-43
Classification Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336		

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

Composition comments 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.
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	Do not induce vomiting. Get medical attention immediately. Rinse mouth thoroughly with water.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Use hand wash which is specific to the removal of adhesive.
Eye contact	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention. If adhesive bonding occurs, do not force eyelids apart.
Protection of first aiders	No specific requirements are anticipated under normal conditions of use.

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.
Inhalation	Overexposure to organic solvents may depress the central nervous system, causing dizziness and intoxication and, at very high concentrations, unconsciousness and death.
Ingestion	Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract.
Skin contact	Prolonged contact may cause redness, irritation and dry skin. Contains components which may penetrate the skin. Product has a defatting effect on skin.
Eye contact	Irritation of eyes and mucous membranes.

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

Notes for the doctor Symptoms following overexposure to vapour may include the following: May cause nausea, headache, dizziness and intoxication. Vapours may cause headache, fatigue, dizziness and nausea.

Specific treatments If adhesive bonding occurs, do not force eyelids apart.

SECTION 5: Firefighting measures**5.1. Extinguishing media**

Suitable extinguishing media Water spray, fog or mist. Carbon dioxide (CO₂). 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 Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours. Oxides of carbon. Phosgene (COCl₂). Hydrogen chloride (HCl).

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.

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 Wear protective clothing as described in Section 8 of this safety data sheet. No smoking, sparks, flames or other sources of ignition near spillage. Avoid inhalation of vapours and contact with skin and eyes. If ventilation is inadequate, suitable respiratory protection must be worn.

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 spillage with sand, earth or other suitable non-combustible material. Avoid the spillage or runoff entering drains, sewers or watercourses.

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. Contain spillage with sand, earth or other suitable non-combustible material. 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 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. 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. Do not use containers made of the following materials: Aluminium. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Do not pierce or burn, even after use.

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.

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

DICHLOROMETHANE

Long-term exposure limit (8-hour TWA): WEL 100 ppm(Sk) 353 mg/m³

Short-term exposure limit (15-minute): WEL 200 ppm(Sk) 706 mg/m³

BUTANONE

Long-term exposure limit (8-hour TWA): 200 ppm 600 mg/m³

Short-term exposure limit (15-minute): 300 ppm 900 mg/m³

WEL = Workplace Exposure Limit

DICHLOROMETHANE (CAS: 75-09-2)

DNEL

Industry - Inhalation; Long term : 353 mg/m³
Industry - Dermal; Long term : 4750 mg/kg/day
Industry - Inhalation; Short term : 706 mg/m³
Consumer - Inhalation; Long term : 88.3 mg/m³
Consumer - Oral; Short term : 0.06 mg/kg/day
Consumer - Inhalation; Short term : 353 mg/m³
Consumer - Dermal; Short term : 2395 mg/kg/day

PNEC

- Fresh water; 0.54 mg/l
- marine water; 0.194 mg/l
- Sediment (Freshwater); 1.61 mg/kg
- STP; 26 mg/l
- Soil; 0.583 mg/kg
- Intermittent release; 0.27 mg/l

BUTANONE (CAS: 78-93-3)**DNEL**

Consumer - Oral; Long term systemic effects: 31 mg/kg/day
Consumer - Dermal; Long term systemic effects: 412 mg/kg/day
Consumer - Inhalation; Long term systemic effects: 106 mg/m³
Industry - Inhalation; Long term systemic effects: 600 mg/m³

PNEC

- Fresh water; Long term 55.8 mg/l
- marine water; Long term 55.8 mg/l
- Intermittent release; Intermittent release 55.8 mg/l
- STP; Long term 709 mg/l
- Sediment; Long term 284.7 mg/kg
- Soil; Long term 22.5 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.

Personal protection

Wear protective clothing.

Eye/face protection

Wear chemical splash goggles. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection

Viton rubber (fluoro rubber). The selected gloves should have a breakthrough time of at least 2 hours. Minimum thickness: 0.7mm. To protect hands from chemicals, gloves should comply with European Standard EN374. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. When used with mixtures, the protection time of gloves cannot be accurately estimated. The breakthrough time for any glove material may be different for different glove manufacturers.

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. 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. When using do not eat, drink or smoke.

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. Short term Gas filter, type AX.
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.
Colour	Amber.
Odour	Chlorinated hydrocarbons.
Odour threshold	Data lacking.
pH	Not available.
Melting point	Not applicable.
Initial boiling point and range	Dichloromethane: 40°C @ 760 mm Hg
Flash point	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	Data lacking.
Evaporation factor	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	Not available.
Other flammability	Not available.
Vapour pressure	No information available.
Vapour density	Not available.
Relative density	Liquid base: ~ 1.2 @ 20°C
Bulk density	Not applicable.
Solubility(ies)	Insoluble in water.
Partition coefficient	Data lacking.
Auto-ignition temperature	No information available.
Decomposition Temperature	Not available.
Viscosity	Liquid base: 450-650 cP @ 20°C
Explosive properties	In use may form flammable/explosive vapour-air mixture.
Explosive under the influence of a flame	Yes
Oxidising properties	Does not meet the criteria for classification as oxidising.

9.2. Other information

Volatile organic compound This product contains a maximum VOC content of 580 g/l.

SECTION 10: Stability and reactivity**10.1. Reactivity**

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Highly volatile.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Will not polymerise. In use may form flammable/explosive vapour-air mixture. Under normal conditions of storage and use, no hazardous reactions will occur.

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 Aluminium. Strong oxidising agents. Strong acids. Avoid contact with water.

10.6. Hazardous decomposition products

Hazardous decomposition products Toxic gases or vapours. Hydrogen chloride (HCl). Phosgene (COCl₂). Carbon monoxide (CO).

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Skin corrosion/irritation**

Skin corrosion/irritation Irritating to skin.

Serious eye damage/irritation

Serious eye damage/irritation Avoid contact with eyes. Causes eye irritation.

Respiratory sensitisation

Respiratory sensitisation There is no evidence that the product can cause respiratory hypersensitivity.

Skin sensitisation

Skin sensitisation Product has a defatting effect on skin.

Carcinogenicity

Carcinogenicity Suspected of causing cancer.

General information

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

Inhalation

Prolonged inhalation of high concentrations may damage respiratory system. High concentrations may be fatal. Vapours in high concentrations are anaesthetic. Vapours in high concentrations are narcotic. Vapours may irritate throat/respiratory system.

Ingestion

Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract. May cause nausea, headache, dizziness and intoxication.

Skin contact

May be absorbed through the skin.

Eye contact	Irritating to eyes.
Acute and chronic health hazards	Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.
Route of exposure	Inhalation Skin absorption Ingestion
Target organs	Central nervous system Respiratory system, lungs Liver Skin

Toxicological information on ingredients.**PETROLEUM GASES, LIQUEFIED; PETROLEUM GAS <0.1% 1,3 BUTADIENE**

Toxicological effects	Information given is based on data of the components and of similar products.
<u>Acute toxicity - oral</u>	
Notes (oral LD₅₀)	Not applicable.
<u>Acute toxicity - dermal</u>	
Notes (dermal LD₅₀)	Not applicable.
<u>Acute toxicity - inhalation</u>	
Notes (inhalation LC₅₀)	LC ₅₀ >20 mg/l, Inhalation, Rat
<u>Skin corrosion/irritation</u>	
Skin corrosion/irritation	Not irritating.
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	Not irritating.
<u>Respiratory sensitisation</u>	
Respiratory sensitisation	Not sensitising.
<u>Skin sensitisation</u>	
Skin sensitisation	Not sensitising.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	This substance has no evidence of mutagenic properties.
<u>Carcinogenicity</u>	
Carcinogenicity	Carcinogenicity in humans is not expected.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Based on available data the classification criteria are not met.
Reproductive toxicity - development	Does not contain any substances known to be toxic to reproduction.
<u>Specific target organ toxicity - single exposure</u>	
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.
<u>Specific target organ toxicity - repeated exposure</u>	
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

DICHLOROMETHANEAcute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 2,000.1

Species Rat

ATE oral (mg/kg) 2,000.1

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 2,000.1

Species Rat

ATE dermal (mg/kg) 2,000.1

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l) 86.0

Species Rat

ATE inhalation (vapours mg/l) 86.0

Skin corrosion/irritation

Skin corrosion/irritation Irritating to skin.

Serious eye damage/irritation

Serious eye damage/irritation Slightly irritating.

Respiratory sensitisation

Respiratory sensitisation There is evidence that the product can cause respiratory hypersensitivity.

Skin sensitisation

Skin sensitisation Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Genome mutation: Positive.

Genotoxicity - in vivo Chromosome aberration: Negative.

General information	Prolonged and repeated contact with solvents over a long period may lead to permanent health problems. Known or suspected carcinogen for humans.
Inhalation	Harmful by inhalation. Vapours have a narcotic effect. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting. Irritating to respiratory system. Unconsciousness. High concentrations may be fatal. Vapours in high concentrations are anaesthetic.
Ingestion	May cause nausea, headache, dizziness and intoxication.
Skin contact	Prolonged contact may cause redness, irritation and dry skin. Product has a defatting effect on skin. May cause skin irritation/eczema.
Eye contact	Irritating to eyes.
Acute and chronic health hazards	Contains a substance which may be potentially carcinogenic.
Route of exposure	Inhalation Skin absorption Ingestion Skin and/or eye contact
Target organs	Central nervous system Liver Kidneys Skin Respiratory system, lungs Heart and cardiovascular system Eyes
Medical symptoms	Dilated pupils. Severe skin irritation. Nausea, vomiting. Central nervous system depression. Drowsiness, dizziness, disorientation, vertigo. Hypotension (low blood pressure). Unconsciousness, possibly death.
Medical considerations	Skin disorders and allergies. Liver and/or kidney damage. History of smoking. Convulsions. Central nervous system depression.

BUTANONE

Toxicological effects	The toxicity of this substance has been assessed during REACH registration.
<u>Acute toxicity - oral</u>	
Acute toxicity oral (LD ₅₀ mg/kg)	2,000.0
Species	Rat
<u>Acute toxicity - dermal</u>	
Acute toxicity dermal (LD ₅₀ mg/kg)	5,000.0
Species	Rabbit
<u>Acute toxicity - inhalation</u>	
Acute toxicity inhalation (LC ₅₀ vapours mg/l)	5,000.0
Species	Rat
ATE inhalation (vapours mg/l)	5,000.0
<u>Skin corrosion/irritation</u>	
Skin corrosion/irritation	Product has a defatting effect on skin.
<u>Serious eye damage/irritation</u>	

Serious eye
damage/irritation

Causes serious eye irritation.

Specific target organ toxicity - single exposure

STOT - single exposure

Vapours may cause drowsiness and dizziness. Vapours in high concentrations are narcotic.

Skin contact

Prolonged contact may cause dryness of the skin.

Eye contact

Irritation of eyes and mucous membranes.

SECTION 12: Ecological information

Ecotoxicity

The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

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.

DICHLOROMETHANE

Ecotoxicity

The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

12.1. Toxicity

Toxicity

Not regarded as dangerous for the environment. Not considered toxic to fish.

Ecological information on ingredients.

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.

BUTANONE

Toxicity

This product has low toxicity.

Acute aquatic toxicity

Acute toxicity - fish

LC50, 96 hours: 2993 mg/l, Pimephales promelas (Fat-head Minnow)

**Acute toxicity - aquatic
invertebrates**

EC₅₀, 48 hours: 308 mg/l, Daphnia magna

**Acute toxicity - aquatic
plants**

EC₅₀, 96 hours: 2029 mg/l, Freshwater algae

**Acute toxicity -
microorganisms**

EC₅₀, 96 hours: > 50 mg/l, Activated sludge

12.2. Persistence and degradability

Persistence and degradability There are no data on the degradability of this product.

Ecological information on ingredients.

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

Persistence and degradability The product is readily biodegradable.

DICHLOROMETHANE

Persistence and degradability The substance is readily biodegradable.

BUTANONE

Persistence and degradability The product is biodegradable.

Phototransformation Water - Degradation (%) 98: 28 days

12.3. Bioaccumulative potential

Partition coefficient Data lacking.

Ecological information on ingredients.PETROLEUM GASES, LIQUEFIED; PETROLEUM GAS <0.1% 1,3 BUTADIENE

Bioaccumulative potential Bioaccumulation is unlikely.

DICHLOROMETHANE

Bioaccumulative potential The product contains potentially bioaccumulating substances.

Partition coefficient log Pow: 1.25

BUTANONE

Bioaccumulative potential The product is not bioaccumulating.

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.

DICHLOROMETHANE

Mobility The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces. The product is insoluble in water.

BUTANONE

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 assessment Not determined.

Ecological information on ingredients.

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

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

DICHLOROMETHANE

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

12.6. Other adverse effects

Other adverse effects None known.

Ecological information on ingredients.

DICHLOROMETHANE

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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 (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 2.1

ADR/RID classification code 5F

ADR/RID label	2.1
IMDG class	2.1
ICAO class/division	2.1
ADN class	2.1

Transport labels**14.4. Packing group**

Not applicable.

14.5. Environmental hazards**Environmentally hazardous substance/marine pollutant**

No.

14.6. Special precautions for user**EmS** F-D, S-U**ADR transport category** 2**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	Health and Safety at Work etc. Act 1974 (as amended). The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended). The Aerosol Dispensers Regulations 2009 (SI 2009 No. 2824).
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) 1272/2008	Aerosol 1 - H222, H229: Weight of evidence. Skin Irrit. 2 - H315: Calculation method. Eye Irrit. 2A - H319: Calculation method. STOT SE 3 - H336: Calculation method. Carc. 2 - H351: Calculation method.
Issued by	Technical Department
Revision date	15/01/2016
Revision	5
Supersedes date	09/09/2014
SDS number	21858
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. H315 Causes skin irritation. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer.

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.

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