

## SAFETY DATA SHEET

### Aerosol Solutions AS1216

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             | Aerosol Solutions AS1216                                                            |
| 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      | 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 | Aerosol Solutions Limited<br>Unit C, Bridgefield Industrial Estate<br>Draycott Road<br>Breaston<br>Derby<br>DE72 3DS<br>Tel: 01332 870030<br>Fax :01332 870033<br>Web: <a href="http://www.aerosolsolutions.co.uk">www.aerosolsolutions.co.uk</a> |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

##### 1.4. Emergency telephone number

|                     |                                                               |
|---------------------|---------------------------------------------------------------|
| Emergency telephone | Aerosol Solutions ++44 (0) 1332 870 030 (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 Eye Irrit. 2 - H319 Carc. 2 - H351 STOT SE 3 - H336 |
| Environmental hazards | Not Classified                                                           |

##### 2.2. Label elements

###### Hazard pictograms



|             |        |
|-------------|--------|
| Signal word | Danger |
|-------------|--------|

|                   |                                                                                                                                                                                                                                              |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hazard statements | H222 Extremely flammable aerosol.<br>H229 Pressurised container: may burst if heated.<br>H315 Causes skin irritation.<br>H319 Causes serious eye irritation.<br>H351 Suspected of causing cancer.<br>H336 May cause drowsiness or dizziness. |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Precautionary statements</b>               | <p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P211 Do not spray on an open flame or other ignition source.</p> <p>P251 Do not pierce or burn, even after use.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P261 Avoid breathing vapour/ spray.</p> <p>P271 Use only outdoors or in a well-ventilated area.</p> <p>P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p> |
| <b>Supplemental label information</b>         | Please refer to Safety Data Sheet.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Contains</b>                               | DICHLOROMETHANE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Supplementary precautionary statements</b> | <p>P202 Do not handle until all safety precautions have been read and understood.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P308+P313 IF exposed or concerned: Get medical advice/ attention.</p> <p>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P403 Store in a well-ventilated place.</p>                                                                                                                                                                                                                                             |

### 2.3. Other hazards

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

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

|                                                                                                            |                      |                                                              |
|------------------------------------------------------------------------------------------------------------|----------------------|--------------------------------------------------------------|
| <b>DICHLOROMETHANE</b><br>CAS number: 75-09-2                                                              | EC number: 200-838-9 | <b>30-60%</b><br>REACH registration number: 01-2119480404-41 |
| <b>Classification</b><br>Skin Irrit. 2 - H315<br>Eye Irrit. 2 - H319<br>Carc. 2 - H351<br>STOT SE 3 - H336 |                      |                                                              |
| <b>PETROLEUM GASES, LIQUEFIED; PETROLEUM GAS</b><br><0.1% 1,3 BUTADIENE<br>CAS number: 68476-85-7          | EC number: 270-704-2 | <b>30-60%</b>                                                |
| <b>Classification</b><br>Flam. Gas 1A - H220<br>Press. Gas (Liq.) - H280                                   |                      |                                                              |

The full text for all hazard statements is displayed in Section 16.

|                             |                                                                                                                                                                                                    |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Composition comments</b> | 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

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|                                   |                                                                                                                                                                                     |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General information</b>        | Move affected person to fresh air at once.                                                                                                                                          |
| <b>Inhalation</b>                 | 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.            |
| <b>Ingestion</b>                  | Rinse mouth thoroughly with water. Do not induce vomiting.                                                                                                                          |
| <b>Skin contact</b>               | Remove contaminated clothing immediately and wash skin with soap and water. Use hand wash which is specific to the removal of adhesive. Do not use solvents to clean skin.          |
| <b>Eye contact</b>                | 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. |
| <b>Protection of first aiders</b> | No specific requirements are anticipated under normal conditions of use.                                                                                                            |

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

|                            |                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General information</b> | Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.                                                                                                                                                                                                                                                                                            |
| <b>Inhalation</b>          | High concentrations may be fatal. Overexposure to organic solvents may depress the central nervous system, causing dizziness and intoxication and, at very high concentrations, unconsciousness and death. Gas or vapour in high concentrations may irritate the respiratory system. Vapours and spray/mists in high concentrations are narcotic. Vapours in high concentrations are anaesthetic. |
| <b>Ingestion</b>           | Intoxication.                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Skin contact</b>        | Prolonged contact may cause redness, irritation and dry skin. Contains components which may penetrate the skin. Product has a defatting effect on skin.                                                                                                                                                                                                                                           |
| <b>Eye contact</b>         | Irritation of eyes and mucous membranes.                                                                                                                                                                                                                                                                                                                                                          |

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

|                            |                                                         |
|----------------------------|---------------------------------------------------------|
| <b>Specific treatments</b> | If adhesive bonding occurs, do not force eyelids apart. |
|----------------------------|---------------------------------------------------------|

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                                       |                                                                                      |
|---------------------------------------|--------------------------------------------------------------------------------------|
| <b>Suitable extinguishing media</b>   | Water spray, fog or mist. Carbon dioxide (CO <sub>2</sub> ). Alcohol-resistant foam. |
| <b>Unsuitable extinguishing media</b> | Do not use water jet as an extinguisher, as this will spread the fire.               |

### 5.2. Special hazards arising from the substance or mixture

|                                      |                                                                                                                                                                                                                                                                                                                               |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Specific hazards</b>              | 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. |
| <b>Hazardous combustion products</b> | Thermal decomposition or combustion products may include the following substances: Oxides of carbon. Toxic gases or vapours. Phosgene (COCl <sub>2</sub> ). Hydrogen chloride (HCl).                                                                                                                                          |

### 5.3. Advice for firefighters

|                                                      |                                                                                                                                                                                 |
|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Protective actions during firefighting</b>        | 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. |
| <b>Special protective equipment for firefighters</b> | Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.                                                                           |

## SECTION 6: Accidental release measures

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

|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal precautions</b>        | 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. If aerosol cans are ruptured, care should be taken due to the rapid escape of the pressurised contents and propellant. When sprayed on a naked flame or any incandescent material the aerosol vapours can be ignited. Bursting aerosol containers may be propelled from a fire at high speed. |
| <b>For non-emergency personnel</b> | For the greatest protection, clothing should include anti-static overalls, boots and gloves.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>For emergency responders</b>    | For the greatest protection, clothing should include anti-static overalls, boots and gloves. Bursting aerosol containers may be propelled from a fire at high speed.                                                                                                                                                                                                                                                                                                                                                                                                                       |

### 6.2. Environmental precautions

|                                  |                                                                                                                                                                                         |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Environmental precautions</b> | Contain the spillage using bunding. 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

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Methods for cleaning up</b> | 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

|                                    |                                                                                                                   |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Reference to other sections</b> | 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

|                                               |                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Usage precautions</b>                      | 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. Wear protective clothing as described in Section 8 of this safety data sheet. Do not eat, drink or smoke when using this product. |
| <b>Advice on general occupational hygiene</b> | 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

|                            |                                                                                                                                                                                                                                                                                                    |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage precautions</b> | 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. Store at temperatures not exceeding 50°C. |
| <b>Storage class</b>       | Extremely Flammable Aerosol                                                                                                                                                                                                                                                                        |

### 7.3. Specific end use(s)

|                            |                                                                   |
|----------------------------|-------------------------------------------------------------------|
| <b>Specific end use(s)</b> | The identified uses for this product are detailed in Section 1.2. |
|----------------------------|-------------------------------------------------------------------|

## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

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### Occupational exposure limits

#### DICHLOROMETHANE

Long-term exposure limit (8-hour TWA): WEL 100 ppm(Sk) 353 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 200 ppm(Sk) 706 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/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 1250 ppm 2180 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit.

#### DICHLOROMETHANE (CAS: 75-09-2)

##### DNEL

Industry - Inhalation; Long term : 353 mg/m<sup>3</sup>

Industry - Dermal; Long term : 4750 mg/kg/day

Industry - Inhalation; Short term : 706 mg/m<sup>3</sup>

Consumer - Inhalation; Long term : 88.3 mg/m<sup>3</sup>

Consumer - Oral; Short term : 0.06 mg/kg/day

Consumer - Inhalation; Short term : 353 mg/m<sup>3</sup>

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

### 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/manufacture, who can provide information about the breakthrough time of the glove material. 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. The breakthrough time for any glove material may be different for different glove manufacturers. When used with mixtures, the protection time of gloves cannot be accurately estimated.

#### Other skin and body protection

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

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|                                        |                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Hygiene measures</b>                | 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.                                            |
| <b>Respiratory protection</b>          | 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.<br>Short term Gas filter, type AX. |
| <b>Thermal hazards</b>                 | Spray will evaporate and cool rapidly and may cause frostbite or cold burns if in contact with skin.                                                                                                                                                                                                                                             |
| <b>Environmental exposure controls</b> | 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

|                                                     |                                                                                                                                                                                       |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Appearance</b>                                   | Aerosol.                                                                                                                                                                              |
| <b>Colour</b>                                       | Amber.                                                                                                                                                                                |
| <b>Odour</b>                                        | Chlorinated hydrocarbons.                                                                                                                                                             |
| <b>Odour threshold</b>                              | Data lacking.                                                                                                                                                                         |
| <b>pH</b>                                           | Not available.                                                                                                                                                                        |
| <b>Melting point</b>                                | Not applicable.                                                                                                                                                                       |
| <b>Initial boiling point and range</b>              | Dichloromethane: 40°C @ 760 mm Hg                                                                                                                                                     |
| <b>Flash point</b>                                  | 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. |
| <b>Evaporation rate</b>                             | Data lacking.                                                                                                                                                                         |
| <b>Evaporation factor</b>                           | Not available.                                                                                                                                                                        |
| <b>Flammability (solid, gas)</b>                    | Not available.                                                                                                                                                                        |
| <b>Upper/lower flammability or explosive limits</b> | Not available.                                                                                                                                                                        |
| <b>Other flammability</b>                           | Not available.                                                                                                                                                                        |
| <b>Vapour pressure</b>                              | 4 - 6 bar @ 20°C                                                                                                                                                                      |
| <b>Vapour density</b>                               | Not available.                                                                                                                                                                        |
| <b>Relative density</b>                             | Liquid base: ~ 1.2 @ 20°C                                                                                                                                                             |
| <b>Bulk density</b>                                 | Not applicable.                                                                                                                                                                       |
| <b>Solubility(ies)</b>                              | Insoluble in water.                                                                                                                                                                   |
| <b>Partition coefficient</b>                        | Data lacking.                                                                                                                                                                         |
| <b>Auto-ignition temperature</b>                    | Not available.                                                                                                                                                                        |
| <b>Decomposition Temperature</b>                    | Not available.                                                                                                                                                                        |
| <b>Viscosity</b>                                    | Liquid base: 100 - 400 cP @ 20°C<br>50 - 350 mm²/s @ 20°C                                                                                                                             |

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**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

**Particle size** Not applicable.

**Volatile organic compound** This product contains a maximum VOC content of 656 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. Water, moisture.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Toxic gases/vapours/fumes of: Hydrogen chloride (HCl). Phosgene (COCl<sub>2</sub>). Carbon monoxide (CO).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity - oral

**Summary** Based on available data the classification criteria are not met.

#### Acute toxicity - dermal

**Summary** Based on available data the classification criteria are not met.

#### Acute toxicity - inhalation

**Summary** Based on available data the classification criteria are not met.

#### Skin corrosion/irritation

**Summary** Causes skin irritation.

#### Serious eye damage/irritation

**Summary** Causes serious eye irritation.

#### Respiratory sensitisation

**Summary** Based on available data the classification criteria are not met.

#### Skin sensitisation

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**Summary** Based on available data the classification criteria are not met.

### Germ cell mutagenicity

**Summary** Based on available data the classification criteria are not met.

### Carcinogenicity

**Summary** Suspected of causing cancer.

**IARC carcinogenicity** IARC Group 2B Possibly carcinogenic to humans.

### Reproductive toxicity

**Summary** Based on available data the classification criteria are not met.

### Specific target organ toxicity - single exposure

**Summary** May cause drowsiness or dizziness. Dichloromethane is converted to carbon monoxide in the body, which reduces the oxygen carrying capacity of the blood.

**Target organs** Central nervous system

### Specific target organ toxicity - repeated exposure

**Summary** Based on available data the classification criteria are not met.

### Aspiration hazard

**Summary** Based on available data the classification criteria are not met.

**Route of exposure** Inhalation

### Toxicological information on ingredients.

#### DICHLOROMETHANE

##### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 2,000.1

**Species** Rat

**ATE oral (mg/kg)** 2,000.1

##### Acute toxicity - dermal

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 2,000.1

**Species** Rat

**ATE dermal (mg/kg)** 2,000.1

##### Acute toxicity - inhalation

**Acute toxicity inhalation (LC<sub>50</sub> 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

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|                                         |                                                                                                                                                                                                                                                                                                        |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Serious eye damage/irritation</b>    | Slightly irritating.                                                                                                                                                                                                                                                                                   |
| <b><u>Respiratory sensitisation</u></b> |                                                                                                                                                                                                                                                                                                        |
| <b>Respiratory sensitisation</b>        | There is evidence that the product can cause respiratory hypersensitivity.                                                                                                                                                                                                                             |
| <b><u>Skin sensitisation</u></b>        |                                                                                                                                                                                                                                                                                                        |
| <b>Skin sensitisation</b>               | Not sensitising.                                                                                                                                                                                                                                                                                       |
| <b><u>Germ cell mutagenicity</u></b>    |                                                                                                                                                                                                                                                                                                        |
| <b>Genotoxicity - in vitro</b>          | Genome mutation: Positive.                                                                                                                                                                                                                                                                             |
| <b>Genotoxicity - in vivo</b>           | Chromosome aberration: Negative.                                                                                                                                                                                                                                                                       |
| <b><u>General information</u></b>       |                                                                                                                                                                                                                                                                                                        |
|                                         | Prolonged and repeated contact with solvents over a long period may lead to permanent health problems. Known or suspected carcinogen for humans.                                                                                                                                                       |
| <b>Inhalation</b>                       | 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. |
| <b>Ingestion</b>                        | May cause nausea, headache, dizziness and intoxication.                                                                                                                                                                                                                                                |
| <b>Skin contact</b>                     | Prolonged contact may cause redness, irritation and dry skin. Product has a defatting effect on skin. May cause skin irritation/eczema.                                                                                                                                                                |
| <b>Eye contact</b>                      | Irritating to eyes.                                                                                                                                                                                                                                                                                    |
| <b>Acute and chronic health hazards</b> | Contains a substance which may be potentially carcinogenic.                                                                                                                                                                                                                                            |
| <b>Route of exposure</b>                | Inhalation Skin absorption Ingestion Skin and/or eye contact                                                                                                                                                                                                                                           |
| <b>Target organs</b>                    | Central nervous system Liver Kidneys Skin Respiratory system, lungs Heart and cardiovascular system Eyes                                                                                                                                                                                               |
| <b>Medical symptoms</b>                 | Dilated pupils. Severe skin irritation. Nausea, vomiting. Central nervous system depression. Drowsiness, dizziness, disorientation, vertigo. Hypotension (low blood pressure). Unconsciousness, possibly death.                                                                                        |
| <b>Medical considerations</b>           | Skin disorders and allergies. Liver and/or kidney damage. History of smoking. Convulsions. Central nervous system depression.                                                                                                                                                                          |

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

|                                           |                                                                               |
|-------------------------------------------|-------------------------------------------------------------------------------|
| <b>Toxicological effects</b>              | Information given is based on data of the components and of similar products. |
| <b><u>Acute toxicity - oral</u></b>       |                                                                               |
| <b>Notes (oral LD<sub>50</sub>)</b>       | Not applicable.                                                               |
| <b><u>Acute toxicity - dermal</u></b>     |                                                                               |
| <b>Notes (dermal LD<sub>50</sub>)</b>     | Not applicable.                                                               |
| <b><u>Acute toxicity - inhalation</u></b> |                                                                               |
| <b>Notes (inhalation LC<sub>50</sub>)</b> | LC <sub>50</sub> >20 mg/l, Inhalation, Rat                                    |
| <b><u>Skin corrosion/irritation</u></b>   |                                                                               |

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**Skin corrosion/irritation** Not irritating.

**Serious eye damage/irritation**

**Serious eye damage/irritation** Not irritating.

**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** Carcinogenicity in humans is not expected.

**Reproductive toxicity**

**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.

**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** 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.**

#### DICHLOROMETHANE

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

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

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### Ecotoxicity

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

#### 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.

#### 12.2. Persistence and degradability

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

##### Ecological information on ingredients.

#### DICHLOROMETHANE

##### **Persistence and degradability**

The substance 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

Dichloromethane: Dichloromethane has low bioaccumulative potential

##### Partition coefficient

Data lacking.

##### Ecological information on ingredients.

#### DICHLOROMETHANE

##### Bioaccumulative potential

The product contains potentially bioaccumulating substances.

##### Partition coefficient

log Pow: 1.25

#### 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.

#### DICHLOROMETHANE

##### Mobility

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

#### 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

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

### Ecological information on ingredients.

#### DICHLOROMETHANE

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

#### 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.

### 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

|                            |                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General information</b> | Ensure containers are empty before discarding (explosion risk). Must not be disposed of together with household waste.                                                                                                                                                                                                                                                 |
| <b>Disposal methods</b>    | 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. |
| <b>Waste class</b>         | 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

|                         |      |
|-------------------------|------|
| <b>UN No. (ADR/RID)</b> | 1950 |
| <b>UN No. (IMDG)</b>    | 1950 |
| <b>UN No. (ICAO)</b>    | 1950 |
| <b>UN No. (ADN)</b>     | 1950 |

### 14.2. UN proper shipping name

|                                       |          |
|---------------------------------------|----------|
| <b>Proper shipping name (ADR/RID)</b> | AEROSOLS |
| <b>Proper shipping name (IMDG)</b>    | AEROSOLS |
| <b>Proper shipping name (ICAO)</b>    | AEROSOLS |
| <b>Proper shipping name (ADN)</b>     | AEROSOLS |

### 14.3. Transport hazard class(es)

|                      |     |
|----------------------|-----|
| <b>ADR/RID class</b> | 2.1 |
|----------------------|-----|

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|                             |     |
|-----------------------------|-----|
| 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 available.

### 14.5. Environmental hazards

#### Environmentally hazardous substance/marine pollutant

No.

### 14.6. Special precautions for user

|                             |          |
|-----------------------------|----------|
| IMDG Code segregation group | SG69     |
| 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 Annex II of MARPOL 73/78 and the IBC Code Not applicable.

Not applicable.

## SECTION 15: Regulatory information

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

|                                                        |                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>National regulations</b>                            | The Aerosol Dispensers Regulations 2009 (SI 2009 No. 2824).<br>Control of Substances Hazardous to Health Regulations 2002 (as amended).                                                                                                                                                                                                                                                        |
| <b>EU legislation</b>                                  | 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).<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). |
| <b>Guidance</b>                                        | Workplace Exposure Limits EH40.                                                                                                                                                                                                                                                                                                                                                                |
| <b>Authorisations (Annex XIV Regulation 1907/2006)</b> | No specific authorisations are known for this product.                                                                                                                                                                                                                                                                                                                                         |
| <b>Restrictions (Annex XVII Regulation 1907/2006)</b>  | No specific restrictions on use are known for this product.                                                                                                                                                                                                                                                                                                                                    |

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

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### SECTION 16: Other information

|                                                                         |                                                                                                                                                                                                                                                                                                                                           |
|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Classification procedures according to Regulation (EC) 1272/2008</b> | Aerosol 1 - H222, H229: Weight of evidence. Carc. 2 - H351: Calculation method. Eye Irrit. 2 - H319: Calculation method. Skin Irrit. 2 - H315: Calculation method. STOT SE 3 - H336: Calculation method.                                                                                                                                  |
| <b>Issued by</b>                                                        | Technical Department                                                                                                                                                                                                                                                                                                                      |
| <b>Revision date</b>                                                    | 22/01/2021                                                                                                                                                                                                                                                                                                                                |
| <b>Revision</b>                                                         | 9.1                                                                                                                                                                                                                                                                                                                                       |
| <b>Supersedes date</b>                                                  | 22/11/2019                                                                                                                                                                                                                                                                                                                                |
| <b>SDS number</b>                                                       | 20682                                                                                                                                                                                                                                                                                                                                     |
| <b>Hazard statements in full</b>                                        | H220 Extremely flammable gas.<br>H222 Extremely flammable aerosol.<br>H229 Pressurised container: may burst if heated.<br>H280 Contains gas under pressure; may explode if heated.<br>H315 Causes skin irritation.<br>H319 Causes serious eye irritation.<br>H336 May cause drowsiness or dizziness.<br>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.