### **Bossweld Anti Spatter Spray**

### **DYNAWELD Industrial Supplies Pty Ltd**

Chemwatch: 4621-48 Version No: 7.1.1.1

Safety Data Sheet according to WHS and ADG requirements

Issue Date: 12/10/2018 Print Date: 29/08/2019 S.GHS.AUS.EN

#### SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

#### **Product Identifier**

| Product name                  | Bossweld Anti Spatter Spray |
|-------------------------------|-----------------------------|
| Synonyms                      | Not Available               |
| Proper shipping name          | AEROSOLS                    |
| Other means of identification | Not Available               |

#### Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

Application is by spray atomisation from a hand held aerosol pack Liquid release agent to prevent weld spatter from adhering to metal.

#### Details of the supplier of the safety data sheet

| Registered company name | DYNAWELD Industrial Supplies Pty Ltd                      |
|-------------------------|---|
| Address                 | Building 2, 10 Jessica Place, Prestons NSW 2170 Australia |
| Telephone               | 02 8761 6500  |
| Fax                     | 02 9771 5375  |
| Website                 | www.dynaweld.com.au                                       |
| Email                   | Not Available   |

#### Emergency telephone number

| Association / Organisation        | CHEMWATCH EMERGENCY RESPONSE |
|-----------------------------------|------------------------------|
| Emergency telephone numbers       | +61 1800 951 288             |
| Other emergency telephone numbers | +61 2 9186 1132              |

#### **SECTION 2 HAZARDS IDENTIFICATION**

### Classification of the substance or mixture

| Poisons Schedule   | Poisons Schedule Not Applicable   |  |
|--------------------|---|--|
| Classification [1] | Gas under Pressure (Compressed gas), Acute Toxicity (Oral) Category 4, Skin Corrosion/Irritation Category 2, Carcinogenicity Category 2 |  |
| Legend:            | 1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI     |  |

Label elements







| SIGNAL WORD | WARNING |
|-------------|---------|
|-------------|---------|

#### Hazard statement(s)

| H280   | Contains gas under pressure; may explode if heated. |
|--------|---|
| H302   | Harmful if swallowed.                               |
| H315   | Causes skin irritation.                             |
| H351   | Suspected of causing cancer.                        |
| AUH044 | Risk of explosion if heated under confinement.      |

### Precautionary statement(s) Prevention

| P201 | Obtain special instructions before use.                                    |
|------|--|
| P281 | Use personal protective equipment as required.                             |
| P270 | Do not eat, drink or smoke when using this product.                        |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |

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| P308+P313 | IF exposed or concerned: Get medical advice/attention.                     |
|-----------|--|
| P321      | Specific treatment (see advice on this label).                             |
| P362      | Take off contaminated clothing and wash before reuse.                      |
| P301+P312 | IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. |
| P302+P352 | IF ON SKIN: Wash with plenty of soap and water.                            |
| P330      | Rinse mouth.   |
| P332+P313 | If skin irritation occurs: Get medical advice/attention.                   |

#### Precautionary statement(s) Storage

| P405      | Store locked up.   |
|-----------|--|
| P410+P403 | Protect from sunlight. Store in a well-ventilated place. |

#### Precautionary statement(s) Disposal

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

#### **SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**

#### Substances

See section below for composition of Mixtures

#### Mixtures

| CAS No        | %[weight] | Name                  |
|---------------|-----------|-----------------------|
| 75-09-2       | >60       | methylene chloride    |
| Not Available | <30       | performance additives |
| 124-38-9      | 1-10      | carbon dioxide        |

#### **SECTION 4 FIRST AID MEASURES**

#### Description of first aid measures

| Eye Contact  | If this product comes in contact with the eyes:  Immediately hold eyelids apart and flush the eye continuously with running water.  Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.  Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.  Transport to hospital or doctor without delay.  Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.                                  |
|--------------|---|
| Skin Contact | If skin contact occurs:  Immediately remove all contaminated clothing, including footwear.  Flush skin and hair with running water (and soap if available).  Seek medical attention in event of irritation.   |
| Inhalation   | <ul> <li>If fumes or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>Transport to hospital, or doctor.</li> </ul>   |
| Ingestion    | If poisoning occurs, contact a doctor or Poisons Information Centre.  If swallowed do NOT induce vomiting.  If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.  Observe the patient carefully.  Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious  Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.  Seek medical advice.  Avoid giving milk or oils.  Avoid giving alcohol. |

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

Treat symptomatically.

DO NOT administer sympathomimetic drugs as they may cause ventricular arrhythmias.

For acute or short term repeated exposures to methylene chloride:

- Methylene chloride is well absorbed by the lung. An 8 hour exposure to 250 ppm causes carboxyhaemoglobin levels to exceed 8%. Physical exertion and smoke produce an additive effect.
- The lungs exhale most of the absorbed dose unchanged. Between 1/4 and 1/3 is metabolised to carbon monoxide / dioxide. 5 hours of 100% oxygen is required, typically, to reduce the carboxyhaemoglobin level from 13% to 7.5%.
- As with inhalation and ingestion of the hydrocarbons support of respiration and monitoring for dysrhythmias are the first steps toward stabilisation.

  Small ingestions require only dilution with water or milk. Patients who have ingested more than several swallows may benefit from Ipecac Syrup/lavage, charcoal or cathartics. No data is available to support the efficacy of these treatments.

[Ellenhorn and Barceloux: Medical Toxicology]

BIOLOGICAL EXPOSURE INDEX - BEI

Sampling Time Comments Determinant Index B, NS, SQ 1. Methaemoglobin in blood 1.5% of haemoglobin During or end of shift

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B: Background levels occur in specimens collected from subjects NOT exposed.

NS: Non-specific determinant; Also seen after exposure to other materials

SQ: Semi-quantitative determinant - Interpretation may be ambiguous; should be used as a screening test or confirmatory test.

#### **SECTION 5 FIREFIGHTING MEASURES**

#### **Extinguishing media**

- ► Water spray or fog.
- ► Foam.
- ▶ Dry chemical powder.
- ▶ BCF (where regulations permit).
- Carbon dioxide.

#### Special hazards arising from the substrate or mixture

| Special nazards arising from the substrate or mixture |  |  |  |
|---|--|--|--|
| Fire Incompatibility                                  | Avoid contamination with strong oxidising agents as ignition may result  |  |  |
| Advice for firefighters                               | dvice for firefighters   |  |  |
| Fire Fighting   | <ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>May be violently or explosively reactive.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use fire fighting procedures suitable for surrounding area.</li> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> <li>Equipment should be thoroughly decontaminated after use.</li> </ul> |  |  |
| Fire/Explosion Hazard                                 | <ul> <li>Non combustible.</li> <li>Not considered to be a significant fire risk.</li> <li>Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>Aerosol cans may explode on exposure to naked flames.</li> <li>Rupturing containers may rocket and scatter burning materials.</li> <li>Hazards may not be restricted to pressure effects.</li> <li>May emit acrid, poisonous or corrosive fumes.</li> <li>Decomposes on heating and may emit toxic fumes of carbon monoxide (CO).</li> <li>Emits toxic fumes of phosgene and hydrogen chloride if involved in fire</li> </ul>                      |  |  |
| HAZCHEM   | Not Applicable   |  |  |

### **SECTION 6 ACCIDENTAL RELEASE MEASURES**

### Personal precautions, protective equipment and emergency procedures

See section 8

#### **Environmental precautions**

See section 12

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

| Minor Spills | <ul> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Wear protective clothing, impervious gloves and safety glasses.</li> <li>Shut off all possible sources of ignition and increase ventilation.</li> <li>Wipe up.</li> <li>If safe, damaged cans should be placed in a container outdoors, away from all ignition sources, until pressure has dissipated.</li> <li>Undamaged cans should be gathered and stowed safely.</li> </ul>   |
|--------------|---|
| Major Spills | <ul> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>May be violently or explosively reactive.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water courses</li> <li>No smoking, naked lights or ignition sources.</li> <li>Increase ventilation.</li> <li>Stop leak if safe to do so.</li> <li>Water spray or fog may be used to disperse / absorb vapour.</li> <li>Absorb or cover spill with sand, earth, inert materials or vermiculite.</li> <li>If safe, damaged cans should be placed in a container outdoors, away from ignition sources, until pressure has dissipated.</li> <li>Undamaged cans should be gathered and stowed safely.</li> <li>Collect residues and seal in labelled drums for disposal.</li> </ul> |

Personal Protective Equipment advice is contained in Section 8 of the SDS.

### **SECTION 7 HANDLING AND STORAGE**

#### Precautions for safe handling

Safe handling

- ► Avoid all personal contact, including inhalation.
- ► Wear protective clothing when risk of exposure occurs.

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- Use in a well-ventilated area.
- Prevent concentration in hollows and sumps.
- DO NOT enter confined spaces until atmosphere has been checked
- Avoid smoking, naked lights or ignition sources.
- Avoid contact with incompatible materials.
- ► When handling, **DO NOT** eat, drink or smoke.
- ► DO NOT incinerate or puncture aerosol cans.
- DO NOT spray directly on humans, exposed food or food utensils.
- Avoid physical damage to containers.
- Always wash hands with soap and water after handling.
- ▶ Work clothes should be laundered separately
- Use good occupational work practice.
- Observe manufacturer's storage and handling recommendations contained within this SDS.
- Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.

### Store in original containers.

- Store in an upright position.
- DO NOT store in pits, depressions, basements or areas where vapours may be trapped.
- ▶ No smoking, naked lights, heat or ignition sources.
- Keep containers securely sealed.

#### Other information

- Contents under pressure.
  - Store in a cool, dry, well ventilated area; away from incompatible materials.
- Avoid storage at temperatures higher than 40 deg C.
- Protect containers against physical damage.
- Check regularly for leaks.
- ▶ Observe manufacturer's storage and handling recommendations contained within this SDS.

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

#### Suitable container

- Aerosol dispenser.
- ► Check that containers are clearly labelled.

#### Storage incompatibility

► Avoid reaction with oxidising agents

strong acids

strong alkalis

Avoid mixing with alkali metals such as sodium, potassium and lithium

#### **SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

#### Control parameters

#### OCCUPATIONAL EXPOSURE LIMITS (OEL)

#### INGREDIENT DATA

| Source                       | Ingredient         | Material name                | TWA                     | STEL                    | Peak          | Notes         |
|------------------------------|--------------------|------------------------------|-------------------------|-------------------------|---------------|---------------|
| Australia Exposure Standards | methylene chloride | Methylene chloride           | 50 ppm / 174 mg/m3      | Not Available           | Not Available | Not Available |
| Australia Exposure Standards | carbon dioxide     | Carbon dioxide in coal mines | 12500 ppm / 22500 mg/m3 | 54000 mg/m3 / 30000 ppm | Not Available | Not Available |
| Australia Exposure Standards | carbon dioxide     | Carbon dioxide               | 5000 ppm / 9000 mg/m3   | 54000 mg/m3 / 30000 ppm | Not Available | Not Available |

#### **EMERGENCY LIMITS**

| Ingredient         | Material name                         | TEEL-1        | TEEL-2        | TEEL-3        |
|--------------------|---------------------------------------|---------------|---------------|---------------|
| methylene chloride | Methylene chloride; (Dichloromethane) | Not Available | Not Available | Not Available |
| carbon dioxide     | Carbon dioxide                        | 30,000 ppm    | 40,000 ppm    | 50,000 ppm    |
|                    |                                       |               |               |               |

| Ingredient         | Original IDLH         | Revised IDLH  |
|--------------------|-----------------------|---------------|
| methylene chloride | 2,300 ppm / 2,000 ppm | Not Available |
| carbon dioxide     | 40,000 ppm            | Not Available |

### **Exposure controls**

Use in a well-ventilated area

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use.

Employers may need to use multiple types of controls to prevent employee overexposure.

#### Appropriate engineering controls

General exhaust is adequate under normal operating conditions. Local exhaust ventilation may be required in specific circumstances. If risk of overexposure exists, wear approved respirator. Correct fit is essential to obtain adequate protection. Provide adequate ventilation in warehouse or closed storage areas. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.

| Type of Contaminant:  | Air Speed:                  |
|---|-----------------------------|
| solvent, vapours, degreasing etc., evaporating from tank (in still air).  | 0.25-0.5 m/s (50-100 f/min) |
| aerosols, furnes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid furnes, pickling (released at low velocity into zone of active generation) | 0.5-1 m/s (100-200 f/min.)  |
| direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)  | 1-2.5 m/s (200-500 f/min.)  |

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grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid air motion).

2.5-10 m/s (500-2000 f/min.)

Within each range the appropriate value depends on:

| Lower end of the range                                     | Upper end of the range           |
|--|----------------------------------|
| 1: Room air currents minimal or favourable to capture      | 1: Disturbing room air currents  |
| 2: Contaminants of low toxicity or of nuisance value only. | 2: Contaminants of high toxicity |
| 3: Intermittent, low production.                           | 3: High production, heavy use    |
| 4: Large hood or large air mass in motion                  | 4: Small hood-local control only |

Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.

#### Personal protection









### Eye and face protection

Safety glasses with side shields; or as required,

Chemical goggles

Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]

## Skin protection

See Hand protection below

Hands/feet protection Wear chemical protective gloves, e.g. PVC. Wear safety footwear.

Body protection See Other protection below

#### Other protection

- Overalls.Barrier cream
- Barrier cream
   Evewash unit.

#### Recommended material(s)

#### GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

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| Material          | CPI |
|-------------------|-----|
| PE/EVAL/PE        | A   |
| PVA               | A   |
| TEFLON            | В   |
| BUTYL             | С   |
| CPE               | С   |
| NATURAL RUBBER    | С   |
| NEOPRENE          | С   |
| VITON             | С   |
| VITON/BUTYL       | С   |
| VITON/CHLOROBUTYL | С   |

<sup>\*</sup> CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

\* Where the glove is to be used on a short term, casual or infrequent basis, factors such as 
"feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise

be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

#### Respiratory protection

Type AX Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required.

Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

| Required Minimum Protection Factor | Half-Face<br>Respirator | Full-Face<br>Respirator | Powered Air<br>Respirator |
|------------------------------------|-------------------------|-------------------------|---------------------------|
| up to 5 x ES                       | AX-AUS / Class<br>1     | -                       | AX-PAPR-AUS /<br>Class 1  |
| up to 25 x ES                      | Air-line*               | AX-2                    | AX-PAPR-2                 |
| up to 50 x ES                      | -                       | AX-3                    | -                         |
| 50+ x ES                           | -                       | Air-line**              | -                         |

#### ^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

#### **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

#### Information on basic physical and chemical properties

| . ,            |  |                              |              |
|----------------|--|------------------------------|--------------|
| Appearance     | Clear yellow liquid with a penetrating, ether-like odour; dispersible in water. Supplied in aerosol pack containing carbon dioxide propellant. |                              |              |
|                |  |                              |              |
| Physical state | Liquid   | Relative density (Water = 1) | 1.25 approx. |

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| Odour  | Not Available  | Partition coefficient n-octanol / water | Not Available  |
|--|----------------|---|----------------|
| Odour threshold                              | Not Available  | Auto-ignition temperature (°C)          | Not Available  |
| pH (as supplied)                             | Not Applicable | Decomposition temperature               | Not Available  |
| Melting point / freezing point (°C)          | Not Available  | Viscosity (cSt)                         | Not Available  |
| Initial boiling point and boiling range (°C) | 39 initial     | Molecular weight (g/mol)                | Not Applicable |
| Flash point (°C)                             | Not Applicable | Taste                                   | Not Available  |
| Evaporation rate                             | Not Available  | Explosive properties                    | Not Available  |
| Flammability                                 | Not Applicable | Oxidising properties                    | Not Available  |
| Upper Explosive Limit (%)                    | Not Applicable | Surface Tension (dyn/cm or mN/m)        | Not Available  |
| Lower Explosive Limit (%)                    | Not Applicable | Volatile Component (%vol)               | >60            |
| Vapour pressure (kPa)                        | 50.6 @ 22 degC | Gas group                               | Not Available  |
| Solubility in water                          | Miscible       | pH as a solution (1%)                   | Not Applicable |
| Vapour density (Air = 1)                     | 2.93           | VOC g/L                                 | Not Available  |

### SECTION 10 STABILITY AND REACTIVITY

| Reactivity                         | See section 7  |
|------------------------------------|--|
| Chemical stability                 | <ul> <li>Elevated temperatures.</li> <li>Presence of open flame.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul> |
| Possibility of hazardous reactions | See section 7  |
| Conditions to avoid                | See section 7  |
| Incompatible materials             | See section 7  |
| Hazardous decomposition products   | See section 5  |

### **SECTION 11 TOXICOLOGICAL INFORMATION**

| Inhaled                     | The vapour is highly discomforting Inhalation hazard is increased at higher temperatures. Inhalation exposure may cause susceptible individuals to show change in heart beat rhythm i.e. cardiac arrhythmia. Exposures must be terminated. Acute intoxication by halogenated aliphatic hydrocarbons appears to take place over two stages. Signs of a reversible narcosis are evident in the first stage and in the second stage signs of injury to organs may become evident, a single organ alone is (almost) never involved.  Depression of the central nervous system is the most outstanding effect of most halogenated aliphatic hydrocarbons. Inebriation and excitation, passing into narcosis, is a typical reaction. In severe acute exposures there is always a danger of death from respiratory failure or cardiac arrest due to a tendency to make the heart more susceptible to catecholamines (adrenalin) |   |  |
|-----------------------------|--|---|--|
| Ingestion                   |  | anding effect of most halogenated aliphatic hydrocarbons. Inebriation and excitation, passing into ere is always a danger of death from respiratory failure or cardiac arrest due to a tendency to lin) |  |
| Skin Contact                | Toxic effects may result from skin absorption Bare unprotected skin should not be exposed to this materia The material may accentuate any pre-existing skin condition The material may cause severe skin irritation after prolonger vesicles, scaling and thickening of the skin. Repeated expos   | d or repeated exposure and may produce on contact skin redness, swelling, the production of   |  |
| Eye                         | The material may produce moderate eye irritation leading to  | inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.   |  |
| Chronic                     | Dichloromethane is stored in body fat and metabolised to ca<br>WARNING: Aerosol containers may present pressure relat<br>Principal routes of exposure are usually by inhalation of spra  |   |  |
| Bossweld Anti Spatter Spray | TOXICITY  Not Available  | IRRITATION  Not Available   |  |
|                             | TOXICITY  dermal (rat) LD50: >2000 mg/kg <sup>[2]</sup>  | IRRITATION  Eye(rabbit): 162 mg - moderate  |  |
| methylene chloride          | Inhalation (rat) LC50: 76 mg/l/4H <sup>[2]</sup> Oral (rat) LD50: 985 mg/kg <sup>[2]</sup>   | Eye(rabbit): 500 mg/24hr - mild  Skin (rabbit): 100mg/24hr-moderate   |  |

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| carbon dioxide | TOXICITY  Inhalation (mouse) LC50: 180.5 mg/l/2H <sup>[2]</sup>   | IRRITATION  Not Available |  |
|----------------|---|---------------------------|--|
| Legend:        | Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances |                           |  |

METHYLENE CHLORIDE

The material may produce moderate eye irritation leading to inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. The material may cause severe skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin. Repeated exposures may produce severe ulceration.

WARNING: This substance has been classified by the IARC as Group 2A: Probably Carcinogenic to Humans. Inhalation (human) TCLo: 500 ppm/ 1 y - I Eye(rabbit): 10 mg - mild

| Acute Toxicity                    | ✓ | Carcinogenicity          | <b>✓</b> |
|-----------------------------------|---|--------------------------|----------|
| Skin Irritation/Corrosion         | ✓ | Reproductivity           | ×        |
| Serious Eye Damage/Irritation     | × | STOT - Single Exposure   | ×        |
| Respiratory or Skin sensitisation | × | STOT - Repeated Exposure | ×        |
| Mutagenicity                      | X | Aspiration Hazard        | X        |

X - Data either not available or does not fill the criteria for classification Legend: – Data available to make classification

#### **SECTION 12 ECOLOGICAL INFORMATION**

#### Toxicity

| Bossweld Anti Spatter Spray | ENDPOINT         | TEST DURATION (HR) | SPECIES                       | VALUE            | SOURCE           |
|-----------------------------|------------------|--------------------|-------------------------------|------------------|------------------|
|                             | Not<br>Available | Not Available      | Not Available                 | Not<br>Available | Not<br>Available |
|                             | ENDPOINT         | TEST DURATION (HR) | SPECIES                       | VALUE            | SOURCE           |
|                             | LC50             | 96                 | Fish                          | =13.1mg/L        | 1                |
| methylene chloride          | EC50             | 48                 | Crustacea                     | 1-682mg/L        | 2                |
|                             | EC50             | 96                 | Algae or other aquatic plants | 161.874mg/L      | 3                |
|                             | NOEC             | 96                 | Algae or other aquatic plants | 56mg/L           | 4                |
|                             | ENDPOINT         | TEST DURATION (HR) | SPECIES                       | VALUE            | SOURCE           |
| carbon dioxide              | LC50             | 96                 | Fish                          | 53.413mg/L       | 3                |
|                             | EC50             | 96                 | Algae or other aquatic plants | 237.138mg/L      | 3                |

Legend:

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

#### DO NOT discharge into sewer or waterways.

#### Persistence and degradability

| Ingredient         | Persistence: Water/Soil   | Persistence: Air            |
|--------------------|---------------------------|-----------------------------|
| methylene chloride | LOW (Half-life = 56 days) | HIGH (Half-life = 191 days) |
| carbon dioxide     | LOW                       | LOW                         |

### **Bioaccumulative potential**

| Ingredient         | Bioaccumulation     |
|--------------------|---------------------|
| methylene chloride | LOW (BCF = 40)      |
| carbon dioxide     | LOW (LogKOW = 0.83) |

#### Mobility in soil

| Ingredient         | Mobility           |
|--------------------|--------------------|
| methylene chloride | LOW (KOC = 23.74)  |
| carbon dioxide     | HIGH (KOC = 1.498) |

#### **SECTION 13 DISPOSAL CONSIDERATIONS**

#### Waste treatment methods

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Product / Packaging disposal

- ► Consult State Land Waste Management Authority for disposal.
- ▶ Discharge contents of damaged aerosol cans at an approved site.
- ► Allow small quantities to evaporate.
- DO NOT incinerate or puncture aerosol cans.
   Bury residues and emptied aerosol cans at an approved site.

#### **SECTION 14 TRANSPORT INFORMATION**

#### **Labels Required**



#### Land transport (ADG)

| UN number                    | 1950   |
|------------------------------|--|
| UN proper shipping name      | AEROSOLS   |
| Transport hazard class(es)   | Class 2.2<br>Subrisk 6.1   |
| Packing group                | Not Applicable   |
| Environmental hazard         | Not Applicable   |
| Special precautions for user | Special provisions         63 190 277 327 344 381           Limited quantity         120ml |

### Air transport (ICAO-IATA / DGR)

| UN number                    | 1950  |                         |                                   |  |  |  |  |
|------------------------------|---|-------------------------|-----------------------------------|--|--|--|--|
| UN proper shipping name      | Aerosols, non-flammable, containing substances in Division 6.1, Packing Group III; Aerosols, non-flammable, containing substances in Division 6.1, Packing Group II; Aerosols, non-flammable (tear gas devices) |                         |                                   |  |  |  |  |
|                              | ICAO/IATA Class   | 2.2                     |                                   |  |  |  |  |
| Transport hazard class(es)   | ICAO / IATA Subrisk   | ICAO / IATA Subrisk 6.1 |                                   |  |  |  |  |
|                              | ERG Code  | ERG Code 2P             |                                   |  |  |  |  |
| Packing group                | Not Applicable  |                         |                                   |  |  |  |  |
| Environmental hazard         | Not Applicable  |                         |                                   |  |  |  |  |
|                              | Special provisions  |                         | A1 A145 A167 A802; A145 A167 A802 |  |  |  |  |
|                              | Cargo Only Packing Instructions   |                         | 203; Forbidden                    |  |  |  |  |
|                              | Cargo Only Maximum Qty / Pack   |                         | 50 kg; Forbidden; 150 kg          |  |  |  |  |
| Special precautions for user | Passenger and Cargo Packing Instructions  |                         | Forbidden; 203                    |  |  |  |  |
|                              | Passenger and Cargo Maximum Qty / Pack  |                         | Forbidden; 75 kg                  |  |  |  |  |
|                              | Passenger and Cargo Limited Quantity Packing Instructions   |                         | Forbidden; Y203                   |  |  |  |  |
|                              | Passenger and Cargo Limited Maximum Qty / Pack  |                         | Forbidden; 30 kg G                |  |  |  |  |

#### Sea transport (IMDG-Code / GGVSee)

| UN number                    | 1950   |  |  |
|------------------------------|--|--|--|
| UN proper shipping name      | AEROSOLS   |  |  |
| Transport hazard class(es)   | IMDG Class 2.2 IMDG Subrisk 6.1  |  |  |
| Packing group                | Not Applicable   |  |  |
| Environmental hazard         | Not Applicable   |  |  |
| Special precautions for user | EMS Number         F-D , S-U           Special provisions         63 190 277 327 344 381 959           Limited Quantities         120 ml |  |  |

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

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#### **SECTION 15 REGULATORY INFORMATION**

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

#### METHYLENE CHLORIDE(75-09-2) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Dangerous Goods Code (ADG Code) - Dangerous Goods List Australia Dangerous Goods Code (ADG Code) - List of Emergency Action Codes Australia Exposure Standards

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Inventory of Chemical Substances (AICS)

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix F (Part 3)

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Part 2, Section Seven - Appendix I

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule

GESAMP/EHS Composite List - GESAMP Hazard Profiles

IMO IBC Code Chapter 17: Summary of minimum requirements

IMO MARPOL (Annex II) - List of Noxious Liquid Substances Carried in Bulk

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

International Air Transport Association (IATA) Dangerous Goods Regulations International Maritime Dangerous Goods Requirements (IMDG Code)

United Nations Recommendations on the Transport of Dangerous Goods Model Regulations

#### CARBON DIOXIDE(124-38-9) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Dangerous Goods Code (ADG Code) - Dangerous Goods List Australia Dangerous Goods Code (ADG Code) - List of Emergency Action Codes Australia Dangerous Goods Code (ADG Code) - Packing Instruction - Liquefied and Dissolved Gases

Carc. 2

Australia Exposure Standards

Australia Inventory of Chemical Substances (AICS)

International Air Transport Association (IATA) Dangerous Goods Regulations

International Maritime Dangerous Goods Requirements (IMDG Code)

United Nations Recommendations on the Transport of Dangerous Goods Model Regulations

H351

#### **ECHA SUMMARY**

1

| Ingredient                    | CAS number                | Index No     |     | ECHA Dossier                              |                          |
|-------------------------------|---------------------------|--------------|-----|---|--------------------------|
| methylene chloride            | 75-09-2                   | 602-004-00-3 |     | 01-2119480404-41-XXXX 01-2120763590-53-XX | (XX                      |
| Harmonisation (C&L Inventory) | Hazard Class and Category | y Code(s)    | Pie | ctograms Signal Word Code(s)              | Hazard Statement Code(s) |
| 1                             | Carc. 2                   |              | GH  | HS08; Wng                                 | H351                     |

Harmonisation Code 1 = The most prevalent classification. Harmonisation Code 2 = The most severe classification.

| Ingredient     | CAS number | Index No      | ECHA Dossier  |
|----------------|------------|---------------|---------------|
| carbon dioxide | 124-38-9   | Not Available | Not Available |

GHS08; Wng

| Harmonisation (C&L Inventory) | Hazard Class and Category Code(s) | Pictograms Signal Word Code(s) | Hazard Statement Code(s) |
|-------------------------------|-----------------------------------|--------------------------------|--------------------------|
| 1                             | Press. Gas;                       | GHS04; Wng                     | H280                     |
|                               |                                   | , 0                            |                          |

 $Harmonisation\ Code\ 1 = The\ most\ prevalent\ classification.\ Harmonisation\ Code\ 2 = The\ most\ severe\ classification.$ 

#### **National Inventory Status**

| National Inventory            | Status   |  |  |
|-------------------------------|--|--|--|
| Australia - AICS              | Yes  |  |  |
| Canada - DSL                  | Yes  |  |  |
| Canada - NDSL                 | No (carbon dioxide; methylene chloride)  |  |  |
| China - IECSC                 | Yes  |  |  |
| Europe - EINEC / ELINCS / NLP | Yes  |  |  |
| Japan - ENCS                  | Yes  |  |  |
| Korea - KECI                  | Yes  |  |  |
| New Zealand - NZIoC           | Yes  |  |  |
| Philippines - PICCS           | Yes  |  |  |
| USA - TSCA                    | Yes  |  |  |
| Taiwan - TCSI                 | Yes  |  |  |
| Mexico - INSQ                 | Yes  |  |  |
| Vietnam - NCI                 | Yes  |  |  |
| Russia - ARIPS                | Yes  |  |  |
| Thailand - TECI               | Yes  |  |  |
| Legend:                       | Yes = All CAS declared ingredients are on the inventory  No = One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets) |  |  |

#### **SECTION 16 OTHER INFORMATION**

| Revision Date | 12/10/2018 |
|---------------|------------|
| Initial Date  | 17/12/2004 |

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#### **Bossweld Anti Spatter Spray**

| Version | Issue Date | Sections Updated                    |
|---------|------------|-------------------------------------|
| 5.1.1.1 | 30/09/2014 | Fire Fighter (fire incompatibility) |
| 6.1.1.1 | 08/09/2018 | Transport Information               |

#### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

#### **Definitions and abbreviations**

PC – TWA: Permissible Concentration-Time Weighted Average

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit。

IDLH: Immediately Dangerous to Life or Health Concentrations

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value

LOD: Limit Of Detection

OTV: Odour Threshold Value

BCF: BioConcentration Factors

BEI: Biological Exposure Index

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