

# MATERIAL SAFETY DATA SHEET FOR BOSS WELD ANTI SPATTER FLUID



## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

<b>Product type:</b>	Anti Spatter
<b>Intended Use:</b>	Prevention of weld spatter build up on components and work, during all types of welding
<b>Trade Name:</b>	BOSS Weld Anti Spatter Fluid
<b>Supplier of product:</b>	The BSS Group plc
<b>Registered Office:</b>	Fleet House, Lee Circle, Leicester, LE1 3QQ
<b>Telephone/Fax Numbers:</b>	0116 262 3232 / 0116 253 1343
<b>E-mail Address</b>	reception@bssgroup.com
<b>Web site Address</b>	www.bss-group.co.uk

## 2. HAZARD IDENTIFICATION

<b>Eye Contact:</b>	Irritating to eyes
<b>Skin Contact:</b>	Slight skin irritant. Prolonged or repeated contact may cause dermatitis
<b>Inhalation:</b>	High levels of vapour/mist may cause dizziness. Can cause irritation of the respiratory tract.
<b>Ingestion:</b>	Accidental ingestion is an unlikely event

## 3. COMPOSITION/INFORMATION ON INGREDIENTS.

<b>Main Constituents:</b>	<b>CAS NO.</b>	<b>HEALTH (Class)</b>	<b>RISK (R No.)</b>
<b>Dichloromethane</b>	75-09-2	Xn	R40
<b>Carbon Dioxide</b>	124-38-9	None	None
<b>Soya Lecithin</b>	8002-43-5		

## 4. FIRST AID MEASURES

<b>Eye Contact:</b>	Contact lenses should be removed. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. Seek medical advice.
<b>Skin Contact:</b>	Remove contaminate clothing. Wash the skin immediately with soap and water or use a proprietary skin cleaner. <b>DO NOT</b> solvents or thinners. If in doubt, seek medical advice.
<b>Inhalation:</b>	Remove to fresh air, keep the patient warm and at rest. If breathing is irregular or has stopped, administer artificial respiration. Give nothing by mouth. If unconscious, place in the recovery position and seek medical advice.
<b>Ingestion:</b>	If accidentally swallowed, obtain immediate medical attention. Keep at rest. <b>DO NOT INDUCE VOMITING</b>

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## 5. FIRE FIGHTING MEASURES

<b>Extinguishing Media:</b>	Alcohol resistant foam/CO <sup>2</sup> /powder/water spray/mist.
<b>Special Fire Fighting procedures:</b>	Fire exposed containers should be sprayed with water to lessen risk of explosion
<b>Unusual Fire &amp; Explosion Hazard:</b>	Thermal degradation will cause evolution of Hydrogen Chloride with small amounts of phosgene and chlorine. All these gases are toxic. Phosgene is extremely toxic

## 6. ACCIDENTAL RELEASE MEASURES

Procedures for Leaks of Spillage:	Exclude nonessential personnel. Avoid breathing vapours. Refer to protective measures listed in Section 7 and 8. Contain and collect spillages with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container for disposal in accordance with waste regulations (see section 13). <b>DO NOT ALLOW TO ENTER DRAINS OR WATER COURSES.</b> Clean preferably with a detergent; avoid the use of solvents. If the product enters drains or sewers, the local water company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the National Rivers Authority.
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## 7. HANDLING AND STORAGE:

<b>Handling:</b>	Vapours are heavier than air and may spread along floors. They may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the occupational exposure limits. When used in a welding area ensure aerosol is away from hot surfaces, electrical cables/welding torches and any area that could be affected by heat/sparks or welding flame. Do not keep the aerosol, during use, on the work surface. Always store away from the work area. Avoid skin and eye contact. Avoid inhalation of vapour and spray mist. Smoking, eating and drinking should be prohibited in areas of use and storage.
<b>Storage precautions:</b>	Store below 50°C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. <b>NO SMOKING.</b> Observe the label precautions. Store separately from strong oxidising agents and strongly alkaline and strongly acidic materials. Containers which are opened should be properly resealed and kept upright to prevent leakage.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

INGREDIENT NAME	OES/MEL.	8 HR TWA	15 MIN STEL
Dichloromethane	MEL	100 ppm	300 ppm
Carbon Dioxide	OES	5000 ppm	15000 ppm

<b>Engineering Measures:</b>	Provide adequate ventilation to ensure the airborne concentration of substances to which an OES/MEL has been assigned is below that OES/MEL (Occupational Exposure Standard/Maximum Exposure Limit).
<b>Respiratory Protection:</b>	Air-fed respiratory equipment should be worn when this product is sprayed if the exposure of the sprayer or other people nearby cannot be controlled to below the occupational exposure limit and engineering controls and measures cannot reasonably be improved.
<b>Hand Protection:</b>	When skin exposure may occur, advice may be sought from the glove suppliers on appropriate types. Barrier creams may help to protect exposed areas of the skin but are not substitutes for full physical protection. They should not be applied once exposure has occurred.
<b>Eye Protection:</b>	Eye protection designed to protect against liquid splashes should be worn.
<b>Skin Protection:</b>	Cotton or cotton/synthetic overalls are normally suitable. Grossly contaminated clothing should be removed and the skin washed with soap and water or a proprietary skin cleaner.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b>	Aerosol
<b>Appearance:</b>	Pale Straw
<b>Odour:</b>	Chlorinated hydrocarbon solvent
<b>pH:</b>	Not applicable
<b>Boiling Point/Boiling Range:</b>	39°C
<b>Melting Point/Melting Range:</b>	<0°C
<b>Flash Point:</b>	Not applicable
<b>Flammability:</b>	LEL 13.0 (% vol in air @ 25°C) UEL 25°C
<b>Auto flammability:</b>	>640°C
<b>Explosive Properties:</b>	None
<b>Oxidising Properties:</b>	None
<b>Can Pressure:</b>	4.5 BAR
<b>Relative Density:</b>	Not Applicable
<b>VOC Content:</b>	125g/100ml
<b>Solubility (Water):</b>	Insoluble
<b>Solubility (Solvent):</b>	Soluble in chlorinated hydrocarbons

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable
<b>Conditions to avoid:</b>	Avoid naked flames, red hot surfaces, other high temperature sources that may induce thermal decomposition.
<b>Incompatibility (Materials to avoid):</b>	Strong acids/alkalis/oxidising agents/reactive metals e.g. sodium, potassium, calcium, magnesium, zinc, barium, lithium, molten or powdered aluminium.
<b>Hazardous Decomposition:</b>	Hydrogen chloride, Phosgene, Chlorine.

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## 11. TOXICOLOGICAL INFORMATION

<b>Ingredient:</b>	LD50 (Animal/Oral)
<b>Dichloromethane</b>	3g/Kg (Dog)

There is no data available on the specific product itself.

Exposure to organic solvent vapours may result in adverse health effects on the renal and central nervous systems. Symptoms can include headache, dizziness, fatigue, muscular weakness, drowsiness, in extreme cases, loss of consciousness.

Repeated or prolonged contact with the product may lead to the removal of natural fats from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

Splashes in the eyes may cause irritation and reversible local damage.

Dichloromethane (Methylene Chloride) is classified as a category 3 Carcinogen. Cancerous tumors have been found in some animals exposed to high concentration of Dichloromethane, but it remains unproven in man. (See HSE Toxicity Review No.12-Dichloromethane). Dichloromethane will cause headaches, intoxication and a false sense of well-being at levels as low as 500ppm. Over exposure can be fatal.

## 12. ECOLOGICAL INFORMATION

There is no data available on the product itself.

The product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface waters.

The Air Pollution Control requirements of regulations made under the Environmental Protection Act may apply to the use of this product.

Dichloromethane has a low bio-accumulation potential, very low toxicity to fish and is readily biodegradable.

## 13. DISPOSAL CONSIDERATIONS

Do not allow into drains or water courses or dispose of where ground or surface waters may be affected.

Wastes, including empty containers are controlled wastes and should be disposed of in accordance with regulations made under the Control of Pollution Act.

Using the information provided in this data sheet, advice should be obtained from the Waste Regulation Authority whether the special waste regulations apply.

## 14. TRANSPORT INFORMATION

<b>CCN:</b>	3403 99 90
<b>UN No.:</b>	1950
<b>IMDG:</b>	2102
<b>Class:</b>	2
<b>ICAO/IATA:</b>	2.2.6.1
<b>RID/ADR:</b>	2.5T

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## 15. REGULATORY INFORMATION

<b>Label for Supply:</b>	HARMFUL
<b>Risk Phrases:</b>	R22 Harmful if swallowed R65 May cause lung damage if swallowed R40 Possible risk of irreversible effects
<b>Safety Phrases:</b>	S2 Keep out of the reach of children S23 Do not breathe vapour/spray. Avoid contact with skin or eyes S46 If swallowed seek medical advice immediately and show this container or label S51 Use in well ventilated area
<b>Regulatory References:</b>	The Chemicals (Hazard Information and Packaging) Regulations 1994 and subsequent amendments.

## 16. OTHER INFORMATION

The information contained in this data sheet is provided in accordance with the requirements of the Chemicals (Hazard Information and Packaging) Regulations. It does not constitute the user's own assessment of work-place risks as required by other health and safety legislations. The provisions of the Health and Safety at Work etc Act and the Control of Substances Hazardous to Health Regulations apply to the use of this produce at work.

The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of the relevant legislation are complied with.

OES/MEL values are obtained from the current issue of EH40 unless indicated thus (Sup) when a value has been obtained from the supplier.

### **Further Information and Advice can be found in the following publications:**

The Control of Substance Hazardous to Health Regulations 1988 (SI 1988:1657) The Environmental Protection (Duty of Care) Regulations 1992 (SI 1992:2839) Storage of Flammable liquids in containers HS(G)51 The Highly Flammable Liquids and Liquefied Petroleum Gases Regulations 1972 (SI 1972:917)

This product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with legal regulations. The information contained herein is based on the current state of our knowledge and is intended to describe products from the point of view of safety requirements and thus should not be construed as guaranteeing specific properties.

### **DISCLAIMER**

**This information relates only to the specific material designated and may not be valid for such material used in combination with any other material 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, the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.**