SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

AS-90
Aerosol

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

Welding Products

1.3. Details of the supplier of the safety data sheet

CRC Industries UK Ltd.
Wylds Road
Castlefield Industrial Estate
TA6 4DD Bridgwater Somerset
United Kingdom
Tel.: +44 1278 727200
Fax.: +44 1278 425644
E-mail : hse.uk@crcind.com

1.4. Emergency telephone number

(+44)(0)1278 72 7200 (office hours)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Physical:	Aerosol, category 3 Pressurised container: May burst if heated.

Classification is based on test data.

Health:	Carcinogenicity, category 2 Suspected of causing cancer . Skin irritation, category 2 Causes skin irritation. Eye irritation, category 2 Causes serious eye irritation. Specific target organ toxicity - single exposure, category 3 May cause drowsiness or dizziness.

Classification based on calculation method.

Environment:	Not classified

Classification based on calculation method.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Product identifier:	Contains: dichloromethane; methylene chloride
Hazard pictogram(s):	 
Signal word:	Warning
Hazard statement(s):	H229 : Pressurised container: May burst if heated. H351 : Suspected of causing cancer . H315 : Causes skin irritation. H319 : Causes serious eye irritation. H336 : May cause drowsiness or dizziness.
Precautionary statement(s):	P102 : Keep out of reach of children. P210 : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P251 : Do not pierce or burn, even after use. P260 : Do not breathe dust/fume/gas/mist/vapours/spray. P280 : Wear protective gloves/protective clothing/eye protection/face protection. P308/313 : IF exposed or concerned: Get medical advice/attention. P410/412 : Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. P501-2 : Dispose of contents/container to an authorised waste collection point.

2.3. Other hazards

The product does not contain any PBT or vPvB substances.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

Hazardous ingredient	Registration number	CAS-nr.	EC-nr	w/w %	Hazard Class and Category	Hazard statement	Notes
dichloromethane; methylene chloride	01-2119480404-41	75-09-2	200-838-9	75-100	Carc. 2, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3	H351,H315,H319,H336	
carbon dioxide	-	124-38-9	204-696-9	1-5	Press. Gas	H280	A,G
Highly refined low mineral oils/hydrocarbons	-	-	-	1-5	Asp. Tox. 1	H304	

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Tel: +44 (0)1278 727200 Fax: +44 (0)1278 425644 web: www.actioncan.com

Explanation notes
A : substance with Community workplace exposure limit
G : exempted from the obligation to register in accordance with art.2(7)of REACH Regulation No 1907/2006

(* Explanation phrases : see chapter 16)

SECTION 4: First aid measures

4.1. Description of first aid measures

Contact with eyes :	If substance has got into eyes, immediately wash out with plenty of water Seek medical advice
Contact with skin :	Remove contaminated clothing immediately and drench affected skin with plenty of water. Then wash with soap and water Seek medical attention if irritation persists
Inhalation :	Fresh air, keep warm and at rest. If breathing is difficult give oxygen Apply artificial respiration only if patient is not breathing Seek immediate medical attention
Ingestion :	Do not induce vomiting Rinse mouth with water (do not swallow) If swallowed seek medical advice immediately and show this container or label.

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

Inhalation :	May cause irritation. High concentrations may cause narcotic effects. Symptoms : sore throat, cough, shortness of breath, severe breathing difficulties, headache
Ingestion :	After vomiting of swallowed product aspiration into lungs is likely. Solvents may induce chemical pneumonia. Symptoms : abdominal pain, dizziness, diarrhea, cough, headache
Skin contact :	May cause irritation. Prolonged skin contact will result in defatting of the skin, leading to irritation, and in some cases, dermatitis Symptoms : redness and pain
Eye contact :	May cause irritation. Symptoms : redness and pain

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

General Advice :	If any symptoms should occur, seek medical advice. If you feel unwell, seek medical advice (show the label where possible
	Methylene chloride is classified as carcinogenic Cat.2 In case of repeated exposures, regular medical examination is advised

SECTION 5: Firefighting measures

5.1. Extinguishing media

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foam, carbon dioxide or dry agent

5.2. Special hazards arising from the substance or mixture

Aerosols may explode if heated above 50°C
Forms hazardous decomposition products
CO,CO2,HCl
chlorinated compounds

5.3. Advice for firefighters

Keep container(s) exposed to fire cool, by spraying with water
In case of fire, do not breathe fumes
Substance evolves toxic fumes, wear self-contained breathing apparatus

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Shut off all ignition sources
Ensure adequate ventilation
Wear suitable protective clothing and gloves.

6.2. Environmental precautions

Do not allow to enter public sewers and watercourses

6.3. Methods and material for containment and cleaning up

Absorb spillage in suitable inert material
Wash spill site with water and detergent

6.4. Reference to other sections

For further information see section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Keep away from heat and sources of ignition
Take precautionary measures against static discharges
Equipment should be earthed
Use explosion-proof electrical/ventilating/lighting/.../equipment.
Use only non-sparking tools.
Do not breathe aerosols or vapours.
Ensure adequate ventilation
Avoid contact with skin and eyes.

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Wash thoroughly after use
Wear protective gloves/protective clothing/eye protection/face protection.

7.2. Conditions for safe storage, including any incompatibilities

Pressurized container : protect from sunlight and do not expose to temperatures exceeding 50°C.
Keep in a cool, dry, well ventilated place
Keep out of reach of children.

7.3. Specific end use(s)

Welding Products

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits :

Hazardous ingredient	CAS-nr.	method	
EU established exposure limits:			
carbon dioxide	124-38-9	TWA	9000 mg/m3
		STEL	mg/m3
dichloromethane; methylene chloride	75-09-2	TWA	100 ppm
		STEL	200 ppm
National established exposure limits, United Kingdom			
carbon dioxide	124-38-9	TWA	5000 ppm
		STEL	15000 ppm
dichloromethane; methylene chloride	75-09-2	TWA	100 ppm
		STEL	300 ppm
National established exposure limits, Ireland			
carbon dioxide	124-38-9	TWA	5000 ppm
		STEL	15000 ppm
dichloromethane; methylene chloride	75-09-2	TWA	50 ppm
		STEL	-

8.2. Exposure controls

Control procedures :	Ensure adequate ventilation Keep away from heat and sources of ignition
Personal protection :	Take precautions to avoid contact with skin and eyes when handling the product. Ensure adequate ventilation
inhalation :	In case of insufficient ventilation, wear suitable respiratory equipment.
recommended respiratory protection:	Air purifying respirator equiped with organic gas/vapor cartridge (type AX)
hands and skin :	Wear suitable protective gloves The breakthrough time of the glove should be longer than the total duration of

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	product use. If work lasts longer than the breakthrough time, gloves should be changed part-way through.
Recommended gloves:	Nitrile
eyes :	Wear safety eyewear according to EN 166.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

(for aerosols data for the product without propellant)

Appearance : physical state :	CO2 propelled liquid.
colour :	Coloured.
odour :	Characteristic odor.
pH :	Not applicable.
Boiling point/range :	40 °C
Flash point :	None
Explosion limits : upper limit :	Not available.
lower limit :	Not available.
Vapour pressure :	Not available.
Relative density :	1.295 g/cm3 (@ 20°C).
Solubility in water :	Insoluble in water
Auto-ignition :	> 200 °C

9.2. Other information

VOC = volatile organic compounds	1222 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reactions known if used for its intended purpose

10.2. Chemical stability

Stable

10.3. Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose

10.4. Conditions to avoid

Pressurized container : protect from sunlight and do not expose to temperatures exceeding 50°C.
Avoid overheating

10.5. Incompatible materials

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Strong oxidising agent

10.6. Hazardous decomposition products

CO,CO2,HCl
traces of chlorine and phosgene

SECTION 11: Toxicological information

11.1. Information on toxicological effects

acute toxicity:	based on available data the classification criteria are not met
skin corrosion/irritation:	Causes skin irritation.
serious eye damage/irritation:	Causes serious eye irritation.
respiratory or skin sensitisation:	based on available data the classification criteria are not met
germ cell mutagenicity:	based on available data the classification criteria are not met
carcinogenicity:	Suspected of causing cancer .
toxicity for reproduction:	based on available data the classification criteria are not met
STOT-single exposure:	May cause drowsiness or dizziness.
STOT repeated exposure:	based on available data the classification criteria are not met
aspiration hazard:	based on available data the classification criteria are not met

Information on likely routes of exposure:

Inhalation :	May cause irritation. High concentrations may cause narcotic effects.
Ingestion :	After vomiting of swallowed product aspiration into lungs is likely. Solvents may induce chemical pneumonia.
Skin contact :	Irritating to skin
Eye contact :	Irritating to eyes

Toxicological data :

Hazardous ingredient	CAS-nr.	method	
dichloromethane; methylene chloride	75-09-2	LD50 oral rat	> 2000 mg/kg
		LD50 derm.rat	> 2000 mg/kg

May cause damage to organs through prolonged or repeated exposure .
Methylene chloride is classified as carcinogenic Cat.2

SECTION 12: Ecological information

12.1. Toxicity

Not classified

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Wylds Road, Castlefield Industrial Estate, Bridgwater, Somerset, TA6 4DD
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Ecotoxicological data:

Hazardous ingredient	CAS-nr.	method	
dichloromethane; methylene chloride	75-09-2	IC50 algae	> 662 mg/l
		LC50 fish	193 mg/l
		EC50 daphnia	27 mg/l

12.2. Persistence and degradability

No experimental data available

12.3. Bioaccumulative potential

no bioaccumulation expected

12.4. Mobility in soil

Insoluble in water

12.5. Results of PBT and vPvB assessment

The product does not contain any PBT or vPvB substances.

12.6. Other adverse effects

No experimental data available
GWP (global warming potential): 8

SECTION 13: Disposal considerations

13.1. Waste treatment methods

SECTION 14: Transport information

14.1. UN number

UN-number : 1950

14.2. UN proper shipping name

Proper shipping name: AEROSOLS

14.3. Transport hazard class(es)

Class: 2.2
ADR/RID - Classification code: 5A

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14.4. Packing group

Packing group:	Not applicable.

14.5. Environmental hazards

ADR/RID - Environmentally hazardous:	No
IMDG - Marine pollutant:	No
IATA/ICAO - Environmentally hazardous:	No

14.6. Special precautions for user

ADR/RID - Tunnelcode:	(E)
IMDG - Ems:	F-D, S-U
IATA/ICAO - PAX:	203
IATA/ICAO - CAO	203

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable.

SECTION 15: Regulatory information

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

The Safety Data Sheet is compiled according to the current European requirements.
Regulation (EC) No 1907/2006 (REACH)
Regulation (EC) No 1272/2008 (CLP)
Dir. 2013/10/EU, 2008/47/EC amendment of the aerosol dispenser directive 75/324/EEC.

15.2. Chemical safety assessment

No information available

SECTION 16: Other information

*Explanation hazard statements:	H280 : Contains gas under pressure; may explode if heated. H304 : May be fatal if swallowed and enters airways. H315 : Causes skin irritation. H319 : Causes serious eye irritation. H336 : May cause drowsiness or dizziness. H351 : Suspected of causing cancer .
REVISIONS IN CHAPTRE :	14.3. Transport hazard class(es)
acronyms and synonyms:	TWA = time weight average STEL = short time exposure limit

CRC Industries UK Limited
Wylds Road, Castlefield Industrial Estate, Bridgwater, Somerset, TA6 4DD
Tel: +44 (0)1278 727200 Fax: +44 (0)1278 425644 web: www.actioncan.com

VOC = volatile organic compounds
PBT = persistant bioaccumulative toxic
vPvB = very persitant very bioaccumulative

This product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with any legal regulation.

The information contained herewith is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It does not guarantee any specific properties.

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CRC Industries UK Limited
Wylds Road, Castlefield Industrial Estate, Bridgwater, Somerset, TA6 4DD
Tel: +44 (0)1278 727200 Fax: +44 (0)1278 425644 web: www.actioncan.com