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

1.1. Product identifier

SOLENT M4 PLUS MAINTENANCE SPRAY
Aerosol

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

Lubricants

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 2 Flammable aerosol. Pressurised container: May burst if heated.

Classification is based on test data.

Health:	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: Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics
Hazard pictogram(s):	 
Signal word:	Warning
Hazard statement(s):	H223 : Flammable aerosol. H229 : Pressurised container: May burst if heated. 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. P211 : Do not spray on an open flame or other ignition source. P251 : Do not pierce or burn, even after use. P261 : Avoid breathing dust/fume/gas/mist/vapours/spray. P271 : Use only outdoors or in a well-ventilated area.
	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.
Supplemental Hazard information:	Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

No information available

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
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	01-2119463258-33	-	(919-857-5)	60-100	Flam. Liq. 3, Asp. Tox. 1, STOT SE 3	H226,H304,H336	B,Q
Highly refined low mineral oils/hydrocarbons	-	-	-	1-20	Asp. Tox. 1	H304	
carbon dioxide	-	124-38-9	204-696-9	1-5	Press. Gas	H280	A,G
Hydrocarbons, C10, aromatics,	01-2119463583-34	-	(918-811-1)	<2.5	STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2	H336,H304,H411	Q
Explanation notes							
A : substance with Community workplace exposure limit							
B : substance with national established workplace exposure limit							
G : exempted from the obligation to register in accordance with art.2(7)of REACH Regulation No 1907/2006							
Q : The CAS-no is only an indicative identifier to be used outside the EU for global inventory entries.							

(* 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 If eye irritation persists: Get medical advice/attention.
Contact with skin :	Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
Inhalation :	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
Ingestion :	If swallowed do not induce vomiting because of risk of aspiration into the lungs. If aspiration is suspected obtain immediate medical attention

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

Inhalation :	Excessive inhalation of solvent vapours may give rise to nausea, headaches and dizziness
Ingestion :	After vomiting of swallowed product aspiration into lungs is likely. Solvents may induce chemical pneumonia. Symptoms : sore throat, abdominal pain, nausea, vomiting
Skin contact :	May cause irritation. 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 you feel unwell, seek medical advice (show the label where possible If symptoms persist always call a doctor

SECTION 5: Firefighting measures

5.1. Extinguishing media

foam, carbon dioxide or dry agent
Do not use water jet extinguishing media, due to the risk of spreading fire.

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

Keep container(s) exposed to fire cool, by spraying with water
In case of fire, do not breathe fumes

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.
In case of insufficient ventilation, wear suitable respiratory equipment.

6.2. Environmental precautions

Do not allow to enter public sewers and watercourses
If polluted water reaches drainage systems or water courses, immediately inform appropriate authorities

6.3. Methods and material for containment and cleaning up

Absorb spillage in suitable inert material

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
In case of insufficient ventilation, wear suitable respiratory equipment.
Avoid contact with skin and eyes.
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 out of reach of children.

7.3. Specific end use(s)

Lubricants

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
National established exposure limits, United Kingdom			
carbon dioxide	124-38-9	TWA	5000 ppm
		STEL	15000 ppm
National established exposure limits, Ireland			
carbon dioxide	124-38-9	TWA	5000 ppm
		STEL	15000 ppm

8.2. Exposure controls

Control procedures :	Ensure adequate ventilation Keep away from heat and sources of ignition Take precautionary measures against static discharges
Personal protection :	Take precautions to avoid contact with skin and eyes when handling the product. It is good practice to wear gloves and to provide adequate ventilation whenever using the product. In all cases handle and use the product in accordance with good industrial hygiene practices.
inhalation :	In case of insufficient ventilation, wear suitable respiratory equipment.
recommended respiratory protection:	Air purifying respirator equiped with organic gas/vapor cartridge (type A)
hands and skin :	Depending on amount and duration of use and the risk of contact with the product the gloves manufacturer can assist you in the selection of the right glove material and breakthrough time.
Recommended gloves:	Nitrile
eyes :	Wear safety eyewear according to EN 166.
Environmental protection:	Avoid release to the environment. Collect spillage.

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 :	Yellow.
odour :	Characteristic odor.
pH :	Not applicable.
Boiling point/range :	145 °C
Flash point :	41 °C (Closed Cup)
Evaporation rate :	Not available.
Explosion limits : upper limit :	7.0 %

lower limit :	0.6 %
Vapour pressure :	Not available.
Relative density :	0.837 g/cm3 (@ 20°C).
Solubility in water :	Insoluble in water
Auto-ignition :	200 °C
Viscosity :	Not available.

9.2. Other information

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

Avoid overheating

10.5. Incompatible materials

Strong oxidising agent

10.6. Hazardous decomposition products

CO,CO2

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:	based on available data the classification criteria are not met
serious eye damage/irritation:	based on available data the classification criteria are not met
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:	based on available data the classification criteria are not met
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 :	Inhalation of solvent vapours may give rise to nausea, headaches and dizziness
Ingestion :	After vomiting of swallowed product aspiration into lungs is likely. Solvents may induce chemical pneumonia.
Skin contact :	Prolonged skin contact will result in defatting of the skin, leading to irritation, and in some cases, dermatitis Repeated exposure may cause skin dryness or cracking.
Eye contact :	May cause irritation.

Toxicological data :

Hazardous ingredient	CAS-nr.	method	
Hydrocarbons, C10, aromatics,	-	LD50 oral rat	> 5000 mg/kg
		LC50 inhal.rat	4688 mg/m3
		LD50 derm.rabit	> 2000 mg/kg
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	-	LD50 oral rat	>5000 mg/kg
		LC50 inhal.rat	4951 mg/m3
		LD50 derm.rabit	>5000 mg/kg

SECTION 12: Ecological information

12.1. Toxicity

Not classified

Ecotoxicological data:

Hazardous ingredient	CAS-nr.	method	
Hydrocarbons, C10, aromatics,	-	IC50 algae	> 10 mg/l
		LC50 fish	2-5 mg/l
		EC50 daphnia	3-10 mg/l

12.2. Persistence and degradability

No information available

12.3. Bioaccumulative potential

No information available

12.4. Mobility in soil

Insoluble in water

12.5. Results of PBT and vPvB assessment

No information available

12.6. Other adverse effects

No information available
GWP (global warming potential): 0

SECTION 13: Disposal considerations

13.1. Waste treatment methods

National regulations : Disposal should be in accordance with local, state or national legislation

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: 2.1
ADR/RID - Classification code: 5F

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:	(D)
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:	H226 : Flammable liquid and vapour. H280 : Contains gas under pressure; may explode if heated. H304 : May be fatal if swallowed and enters airways. H336 : May cause drowsiness or dizziness. H411 : Toxic to aquatic life with long lasting effects.
REVISIONS IN CHAPTRE :	Classification according to Regulation (EC) No 1272/2008 Labelling according to Regulation (EC) No 1272/2008
acronyms and synonyms:	TWA = time weight average STEL = short time exposure limit 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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