

1. Identification of the substance/preparation and of the company/undertaking

Product name Valvemaster Plus
SDS # 1770-UK
Product Use Additive package
Supplier Castrol (UK) Ltd
 Wakefield House
 Pipers Way
 Swindon
 Wiltshire SN3 1RE
EMERGENCY TELEPHONE NUMBER **+44 (0)1793 512712**

2. Composition/information on ingredients

Highly refined mineral oil (IP 346 DMSO extract < 3%)
 Proprietary performance additives.

Chemical name	CAS no.	%	EINECS / ELINCS.	Classification
Solvent naphtha (petroleum), heavy arom.	64742-94-5	50 - 100	265-198-5	Xn; R65 N; R51/53
Amine salt of mixed alkyl acid phosphates	Not available.	50 - 100		Xi; R38
Kerosine (petroleum)	8008-20-6	5-10	232-366-4	R10 Xn; R65 N; R51/53
DICYCLOPENTADIENYL IRON	102-54-5	1 - 5	203-039-3	Xn; R22

See Section 16 for the full text of the R Phrases declared above

Occupational Exposure Limit(s), if available, are listed in Section 8

3. Hazards identification

This preparation is classified as dangerous according to Directive 1999/45/EC as amended and adapted.

Physical/chemical Hazards	Not classified as dangerous.
Human health hazards	Irritating to skin. Harmful: may cause lung damage if swallowed. Vapours may cause drowsiness and dizziness.
Environmental hazards	Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
Effects and symptoms	
Eyes	No significant health hazards identified.
Skin	Causes skin irritation.
Inhalation	No significant health hazards identified.
Ingestion	Aspiration hazard if swallowed -- harmful or fatal if liquid is aspirated into lungs.

4. First-aid measures

Eye Contact	In case of contact, immediately flush eyes with a copious amount of water for at least 15 minutes. Get medical attention if irritation occurs.
Skin contact	In case of contact, immediately flush skin copiously with water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Obtain medical attention immediately.
Inhalation	If inhaled, remove to fresh air. Get medical attention if symptoms appear.
Ingestion	If swallowed, do NOT induce vomiting. Never give anything by mouth to an unconscious person. Aspiration hazard if swallowed- can enter lungs and cause damage. Obtain medical attention.
Notes to physician	Treatment should in general be symptomatic and directed to relieving any effects.

5. Fire-fighting measures

Extinguishing Media

Suitable In case of fire, use water fog, foam, dry chemical or CO2 extinguisher or spray.
Not Suitable Do not use water jet.

Hazardous decomposition products These products are carbon oxides (CO, CO2). Some metallic oxides.

Unusual fire/explosion Hazards This material is not explosive as defined by established regulatory criteria.

Special fire-fighting procedures None identified.

6. Accidental release measures

Personal Precautions Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Follow all fire fighting procedures (Section 5).

Environmental precautions and cleanup methods If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) scoop up material and place in a sealed, liquid-proof container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal. Minimize contact of spilled material with soils to prevent runoff to surface waterways. See Section 13 for Waste Disposal Information.

Personal Protection in Case of a Large Spill Splash goggles. Full suit. Boots. Gloves.

7. Handling and storage

Handling Aspiration hazard if swallowed- can enter lungs and cause damage. Do not ingest. If ingested do not induce vomiting. Avoid contact with skin and clothing. Avoid contact of spilled material and runoff with soil and surface waterways. Wash thoroughly after handling.

Storage Keep container tightly closed. Keep container in a cool, well-ventilated area.

8. Exposure controls/personal protection

Ingredient Name

DICYCLOPENTADIENYL IRON

Occupational Exposure Limits

EH40-OES (United Kingdom (UK), 2001). Notes: OES

STEL: 20 mg/m³

TWA: 10 mg/m³

Control Measures Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are close to the workstation location.

Hygiene measures Wash hands, forearms, and face thoroughly after handling compounds and before eating, smoking, using lavatory, and at the end of day.

Personal protective equipment

Respiratory system None required; however, use of adequate ventilation is good industrial practice.

Skin and body Avoid contact with skin and clothing. Wear suitable protective clothing.

Hands Wear suitable gloves.

Eyes Safety glasses with side shields.

9. Physical and chemical properties

Flash point 65 °C (CLOSED CUP)

Explosion Limits LOWER: 1 %
UPPER: 7 %

Colour Amber.

Odour Aromatic.

Odour threshold Not available.

Physical state Liquid.

Boiling point / range >150 °C

Density 0.93 g/cm³ at 20 °C

Solubility Insoluble in cold water.

Viscosity kinematic at 40°C: 5 cSt

Product Name Valvemaster Plus

Product Code UK 1770

Page: 2/5

Version 1

Date of issue 12 July 2002

Format United Kingdom (UK)

Language

(ENGLISH)

10. Stability and reactivity

Incompatibility with Various Substances	Reactive with oxidizing agents.
Hazardous Polymerization	Will not occur.

11. Toxicological information

Acute toxicity	Unlikely to cause more than transient stinging or redness if accidental eye contact occurs. Unlikely to cause harm to the skin on brief or occasional contact but prolonged or repeated exposure may lead to dermatitis. Unlikely to cause harm if accidentally swallowed in small doses, though larger quantities may cause nausea and diarrhoea. At normal ambient temperatures this product will be unlikely to present an inhalation hazard because of its low volatility. May be harmful by inhalation if exposure to vapour, mists or fumes resulting from thermal decomposition products occurs.
Chronic toxicity	
Carcinogenic effects	No component of this product at levels greater than 0.1% is identified as a carcinogen by ACGIH, the International Agency for Research on Cancer (IARC) or the European Commission (EC).

12. Ecological information





Environmental hazards	Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
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13. Disposal considerations

Disposal Consideration / Waste information	Where possible, arrange for product to be recycled. Dispose of via an authorised person/ licensed waste disposal contractor in accordance with local regulations. Incineration may be carried out under controlled conditions provided that local regulations for emissions are met.
Hazardous Waste	The classification of the product may meet the criteria for a hazardous waste

14. Transport information

International transport regulations

Regulatory Information	UN number	Proper shipping name	Class	Packing group	Label	Additional Information
ADR/RID Classification	3082	Environmentally hazardous substance, liquid, n.o.s. solution	9	-		CEFIC Tremcard Number: Not available. Hazchem Code Not available.
ADN Classification	3082	Environmentally hazardous substance, liquid, n.o.s.	9	III		-
IMDG Classification	3082	Environmentally hazardous substance, liquid, n.o.s. solution	9	III		Marine pollutant IMDG Class: Marine Pollutant. (Pollutant.)
IATA Classification	3082	Environmentally hazardous substance, liquid, n.o.s. solution	9	III		-

Product Name Valvemaster Plus	Product Code UK 1770	Page: 3/5	
Version 1	Date of issue 12 July 2002	Format United Kingdom (UK)	Language (ENGLISH)

15. Regulatory information

Label Requirements

Hazard symbol(s)



Indication of Danger

Harmful

Dangerous for the environment.

Risk Phrases

R65- Harmful: may cause lung damage if swallowed.
R38- Irritating to skin.
R67- Vapours may cause drowsiness and dizziness.
R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases

S51- Use only in well-ventilated areas.
S57- Use appropriate containment to avoid environmental contamination.
S61- Avoid release to the environment. Refer to special instructions/Safety data sheets.

Restrictions to product use

Classification and labeling have been performed according to EU directives 1999/45/EC and 67/548/EEC as amended and adapted.
- Industrial applications.

Other Regulations

Inventories

AUSTRALIAN INVENTORY (AICS): Not determined.
CANADA INVENTORY (DSL): Not determined.
CHINA INVENTORY (IECS): Not determined.
EC INVENTORY (EINECS): Not determined.
JAPAN INVENTORY (ENCS): Not determined.
KOREA INVENTORY (ECL): Not determined.
PHILIPPINE INVENTORY (PICCS): Not determined.
US INVENTORY (TSCA): Not determined.

16. Other information

Full text of R-phrases appearing in section 2

R10- Flammable.
R22- Harmful if swallowed.
R65- Harmful: may cause lung damage if swallowed.
R38- Irritating to skin.
R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

HISTORY

Date of issue

12/07/2002.

Date of previous issue

No Previous Validation.

Prepared by

Product Stewardship Group

Notice to Reader

The data and advice given apply when the product is sold for the stated application or applications. The product is not sold as suitable for any other application. Use of the product for applications other than as stated in this sheet may give rise to risks not mentioned in this sheet. You should not use the product other than for the stated application or applications without seeking advice from us.

If you have purchased the product for supply to a third party for use at work, it is your duty to take all necessary steps to secure that any person handling or using the product is provided with the information in this sheet.

If you are an employer, it is your duty to tell your employees and others who may be affected of any hazards described in this sheet and of any precautions which should be taken.

Further copies of this Safety Data Sheet may be obtained from Castrol International.

Product Name Valvemaster Plus	Product Code UK 1770	Page: 4/5
Version 1	Date of issue 12 July 2002	Format United Kingdom (UK)
		Language ()

Product Name Valvemaster Plus	Product Code UK 1770	Page: 4/5
Version 1	Date of issue 12 July 2002	Format United Kingdom (UK)
		Language (ENGLISH)

