# SAFETY DATA SHEET

# 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

+44 (0)1793 512712

NUMBER

# 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 Kerosine (petroleum)	Not available. 8008-20-6	50 - 100 5-10	232-366-4	Xi; R38 R10 Xn; R65 N: R51/53
DICYCLOPENTADIENYL IRON See Section 16 for the full text of the R Phrases declared above	102-54-5	1 - 5	203-039-3	Xn; R22
Occupational Exposure Limit(s), if available, are listed in S	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.

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#### 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 iet.

Hazardous decomposition

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

products

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

Special fire-fighting procedures None identified.

#### Accidental release measures 6.

**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

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 Occupational Exposure Limits** 

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

STEL: 20 ma/m<sup>3</sup> TWA: 10 mg/m<sup>3</sup>

**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.

Wash hands, forearms, and face thoroughly after handling compounds and before eating, smoking, using Hygiene measures

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.

Safety glasses with side shields. Eves

#### 9. Physical and chemical properties

65 °C (CLOSED CUP) Flash point

LOWER: 1 % **Explosion Limits** 

**UPPER: 7 %** 

Amber. Colour Odour Aromatic. Odour threshold Not available. Physical state Liquid. >150 °C Boiling point / range

Density 0.93 g/cm3 at 20 °C **Solubility** Insoluble in cold water. Viscosity kinematic at 40°C: 5 cSt

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## Stability and reactivity

**Incompatibility with Various** 

Reactive with oxidizing agents.

Substances

**Hazardous Polymerization** Will not occur.

## **Toxicological information**

Unlikely to cause more than transient stinging or redness if accidental eye contact occurs. Acute toxicity

> 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.

#### **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

## **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		-

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## 15. Regulatory information

### **Label Requirements**

Hazard symbol(s)





Dangerous for the environment.

Harmf

**Indication of Danger** 

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

R10- Flammable.

in section 2

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 issueNo Previous Validation.Prepared byProduct 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.

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