

**MATERIALS SAFETY DATA BULLETIN (MSDB)****1. PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME** VAG Hydraulic Fluid/Power Steering Fluid  
Part No. LS79  
**SUPPLIER:** Beal UK Ltd  
Sterling Works, Texas st,  
Tingley (A650)  
Leeds  
LS27 0HG  
**Customer Service Tel:** 0113 253 8888

**2. COMPOSITION/INFORMATION IN INGREDIENTS****INGREDIENTS CONSIDERED HAZARDOUS TO HEALTH:**

This product is not hazardous as defined by the EC Dangerous Substances/Preparations Directives.

**3. HAZARDS IDENTIFICATION**

**EFFECTS OF OVER EXPOSURE:** No significant effects expected.

**4. FIRST AID MEASURES**

**EYE CONTACT:** Flush thoroughly with water. If irritation occurs, call a doctor.  
**SKIN CONTACT:** Wash contact areas with soap and water.  
**INHALATION:** Not expected to be a problem.  
**INGESTION:** Not expected to be a problem. However, if greater than 1/2 litre (pint) is ingested or feeling uncomfortable, give 1 to 2 glasses of water and obtain medical attention or call an ambulance for assistance. DO NOT INDUCE VOMITING or give anything by mouth to an unconscious person.

**5. FIRE FIGHTING MEASURES**

**EXTINGUISHING MEDIA:** Carbon dioxide, foam, dry chemical and water fog.

**SPECIAL FIRE FIGHTING PROCEDURES:** Water or foam may cause frothing. Use water to keep fire exposed containers cool. Water may be used to flush spills away from exposures. Prevent runoff from fire control or dilution from entering waterways or drinking water supply.

**SPECIAL PROTECTIVE EQUIPMENT :** For fires in enclosed areas, fire-fighters MUST use

self-contained breathing apparatus.

**USUAL FIRE AND EXPLOSION HAZARDS:** None.

**NFPA HAZARD ID** Health: 0, Flammability: 1, Reactivity: 0

## **6. ACCIDENTAL RELEASE MEASURES**

**NOTIFICATION PROCEDURES:** Report spills as requested to appropriate authorities such as the local Environmental Health Officer or Fire Brigade. If spills are likely to enter any drain, waterways or ground water, contact the Area Water Authority. In case of accident or road spill, contact the Police and Fire Brigade and, if appropriate, the Area Water Authority.

**PROCEDURE IF MATERIAL IS RELEASED OR SPILLED:** Contain and absorb on fire retardant treated sawdust, diatomaceous earth etc. Shovel up and dispose of at an appropriate licensed waste disposal site in accordance with current applicable laws and regulations and product characteristics at time of disposal.

**ENVIRONMENTAL PRECAUTIONS:** Prevent spills from entering storm sewers or drains and contact with soil.

**PERSONAL PRECAUTIONS:** See Section 8

## **7. HANDLING AND STORAGE**

**HANDLING:** No special precautions are necessary beyond normal good hygiene practices. See section 8 for additional personal protection advice when handling this product.

**STORAGE:** Do not store in open or unlabelled containers. Store away from strong oxidising agents or combustible material.

**FURTHER ADVICE:** Used engine crankcase lubricants contain harmful contaminants. Because of the effects observed in laboratory tests (see section 11), all persons who regularly handle engine oil, such as engine mechanics and service station workers should take precautions to minimise contact with the oil. Good personal hygiene practices **MUST** be followed. Wash thoroughly any skin contact areas with soap and water. Remove oil soaked clothing and discard oil soaked shoes

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**VENTILATION:** No special requirements under ordinary conditions of use and with adequate ventilation.

**RESPIRATORY PROTECTION:** No special requirements under ordinary conditions of use and with adequate ventilation.

**EYE PROTECTION:** Normal industrial eye protection practices should be employed.

**SKIN PROTECTION:** No special equipment required. However, good personal hygiene practices should always be followed.

**EXPOSURE LIMITS:** This product does not contain any components which have recognised exposure limits. However, a threshold limit value of 5.00 mg/m<sup>3</sup> is suggested for oil mist.

## **9. PHYSICAL AND CHEMICAL PROPERTIES.**

Typical physical properties are given below. Consult Product Data Sheet for specific details.

PHYSICAL STATE	LIQUID
COLOUR	AMBER
ODOUR	TYPICAL
PH	N/A
BOILING POINT	N/A
MELTING POINT	N/A
FLASH POINT	220 deg C
FLAMMABILITY	N/A
AUTO FLAMMABILITY	N/A
EXPLOSIVE PRO	N/A
OXIDISING PROP	N/A
VAPOUR PRESSURE	N/A
RELATIVE DENSITY	0.886
SOLUBILITY IN WATER	INSOLUBLE
PARTITION COEFFICIENT	N/A
VISCOSITY @ 40 DEG C	104 CENTISTOKES
VISCOSITY @ 100 DEG C	14.3 CENTISTOKES
POUR POINT	-28 DEG C

FOR FURTHER TECHNICAL INFORMATION, CONTACT YOUR MARKETING REPRESENTATIVE.

## **10 STABILITY AND REACTIVITY**

STABILITY (THERMAL. LIGHT ETC. CONDITIONS TO AVOID):	Stable
INCOMPATIBILITY (MATERIALS TO AVOID):	Extreme heat
HAZARDOUS DECOMPOSITION PRODUCTS:	Strong oxidisers
	Metal oxides. Carbon monoxides.
	Elemental oxides.
HAZARDOUS POLYMERISATION:	Will not occur

## **11 TOXICOLOGICAL DATA**

### **----- ACUTE TOXICOLOGY-----**

<b>ORAL TOXICITY</b>	Practically non-toxic (LD50: greater than 2000mg/kg.) Based on testing of similar products and/or the components.
<b>DERMAL TOXICITY</b>	Practically non-toxic (LD50: greater than 2000mg/kg.) Based on testing of similar products and/or the components.
<b>INHALATION TOXICITY</b>	Not applicable -- harmful concentration of mist and/or vapours are unlikely to be encountered through any customary or reasonably foreseeable handling, use or misuse of this product.
<b>EYE IRRITATION</b>	Practically non-irritating, (Draize score: greater than 6 but 15 of less)
<b>SKIN IRRITATION</b>	Practically non-irritating, (Primary irritation index: greater than 0.5 but less than 3)
<b>OTHER ACUTE TOXICITY DATA</b>	The acute toxicological results summarised above are based on testing of representative products. Representative formulations have shown no acute effects, administered via the inhalation route, when tested at maximum attainable oil or mist vapour concentrations.

## **12. ECOLOGICAL INFORMATION**

## **ENVIRONMENTAL FATE AND EFFECTS**

Acute LC/EC50 Fish: Juvenile Rainbow Trout: Practically non-toxic--  
Based on testing of similar products.

## **13. DISPOSAL CONSIDERATIONS**

**WASTE DISPOSAL:** Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration. Such as burning may be limited by the controlling authority. In addition, the product is suitable for processing by an approved recycling facility or can be disposed of at any licensed disposal site. Use of these methods is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal.

## **14. TRANSPORT INFORMATION**

USA DOT: NOT REGULATED BY USA DOT.  
IMO: NOT REGULATED BY IMO.  
IATA: NOT REGULATED BY IATA.

## **15. REGULATORY INFORMATION**

CLASSIFICATION ACCORDING TO EEC DIRECTIVES CLASSIFICATION SYMBOL  
IRRITANT / Xi

LABEL NAME: ZINC DIALKYL DITHIOPHOSPHATE

NATURE OF RISK: R 36 IRRITATING TO EYES

R 43 MAY CAUSE SENSITISATION BY SKIN CONTACT

SAFETY ADVICE S 24 AVOID CONTACT WITH SKIN IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.

S 37 WEAR SUITABLE GLOVES

## **16. OTHER INFORMATION**

THIS PRODUCT CONTAINS - ZINC DIALKYL DITHIOPHOSPHATE (ZDDP)  
THIS PRODUCT SHOULD NOT BE HEATED ABOVE 70 DEG CENTIGRADE BECAUSE HIGHER TEMPERATURES CAN RESULT IN EXOTHERMIC DECOMPOSITION OF THE ZDDP RELEASING HIGHLY TOXIC HYDROGEN SULPHATE AND POSSIBLE ODOROUS ALKYL MERCAPTANS PRODUCT SHOULD BE STORED AT TEMPERATURES BELOW 50 DEG C TO AVOID DEGRADATION OF PRODUCT QUALITY.

THIS INFORMATION RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED AND MAY NOT BE VALID FOR SUCH MATERIAL USED IN COMBINATION WITH ANY OTHER MATERIALS 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, NO REPRESENTATION, WARRANTY OR GUARANTEE IS MADE AS TO ITS ACCURACY, RELIABILITY OR COMPLETENESS. IT IS THE USER'S RESPONSIBILITY TO SATISFY HIMSELF AS TO THE SUITABILITY AND COMPLETENESS OF SUCH INFORMATION FOR HIS OWN PARTICULAR USE.