1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

Material Name Recommended Uses	:	Shell Omala S4 WE 320 Gear lubricant.
Product Code	:	001D7858
Manufacturer/Supplier	:	Viva Energy Australia Ltd (Formerly: The Shell Company of Australia) (ABN 46 004 610 459) 720 Bourke Street Docklands Victoria 3008 Australia
Telephone Fax	:	+61 (0)3 8823 4444 +61 (0)3 8823 4800
Emergency Telephone Number	:	1800 651 818 (Australia). POISONS INFORMATION CENTRE: 13 11 26 (Australia).

2. HAZARDS IDENTIFICATION

NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS. Not classified as hazardous according to the criteria of NOHSC, and not classified as Dangerous Goods according to the Australian Dangerous Goods Code.

Symbol(s) R-phrase(s) S-phrase(s) Health Hazards	: :	No Hazard Symbol required Not classified. Not classified. Not expected to be a health hazard when used under normal conditions. Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis. Used oil may contain harmful impurities.
Signs and Symptoms	:	Oil acne/folliculitis signs and symptoms may include formation of black pustules and spots on the skin of exposed areas. Ingestion may result in nausea, vomiting and/or diarrhoea.
Safety Hazards	:	Not classified as flammable but will burn.
Environmental Hazards SUSMP Schedule	:	Not classified as dangerous for the environment. Not scheduled.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Preparation Description	:	Blend of polyalkylene glycol and additives.
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4. FIRST AID MEASURES

General Information	: Not expected to be a health hazard when used under normal
Inhalation	conditions. No treatment necessary under normal conditions of use. If

Skin Contact	 symptoms persist, obtain medical advice. Remove contaminated clothing. Flush exposed area with water and follow by washing with soap if available. If persistent irritation occurs, obtain medical attention.
Eye Contact	 Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical attention.
Ingestion	: In general no treatment is necessary unless large quantities are swallowed, however, get medical advice.
Advice to Physician	: Treat symptomatically.

5. FIRE FIGHTING MEASURES

Clear fire area of all non-emergency personnel.

Specific Hazards	:	Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide. Unidentified organic and inorganic compounds.
Suitable Extinguishing Media	:	Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
Unsuitable Extinguishing Media	:	Do not use water in a jet.
Protective Equipment for Firefighters	:	Proper protective equipment including breathing apparatus must be worn when approaching a fire in a confined space.

6. ACCIDENTAL RELEASE MEASURES

Avoid contact with spilled or released material. For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. See Chapter 13 for information on disposal. Observe the relevant local and international regulations.

Protective measures Clean Up Methods Additional Advice	: :	Avoid contact with skin and eyes. Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers. Slippery when spilt. Avoid accidents, clean up immediately. Prevent from spreading by making a barrier with sand, earth or other containment material. Reclaim liquid directly or in an absorbent. Soak up residue with an absorbent such as clay, sand or other suitable material and dispose of properly. Local authorities should be advised if significant spillages cannot be contained.
7. HANDLING AND STORAGE		
General Precautions	:	Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols. Properly dispose of any contaminated rags or cleaning materials in order to prevent fires. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.
Handling	:	Avoid prolonged or repeated contact with skin. Avoid inhaling

Storage	 vapour and/or mists. When handling product in drums, safety footwear should be worn and proper handling equipment should be used. Keep container tightly closed and in a cool, well-ventilated place. Use properly labelled and closeable containers. Storage Temperature: 0 - 50 °C / 32 - 122 °F
Recommended Materials	: For containers or container linings, use mild steel or high density polyethylene.
Unsuitable Materials Additional Information	 PVC. Polyethylene containers should not be exposed to high temperatures because of possible risk of distortion.
	temperatures because of possible fisk of distortion.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION Occupational Exposure Limits

Exposure Controls	:	The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include: Adequate ventilation to control airborne concentrations. Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.
Personal Protective Equipment Respiratory Protection	:	Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers. No respiratory protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material. If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for combined particulate/organic gases and vapours [boiling point >65°C(149 °F)].
Hand Protection	:	Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly.
Eye Protection	:	Application of a non-perfumed moisturizer is recommended. Wear safety glasses or full face shield if splashes are likely to
Protective Clothing	:	occur. Skin protection not ordinarily required beyond standard issue work clothes.
Monitoring Methods	:	Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to

 controls. For some substances biological monitoring may als be appropriate. Environmental Exposure Controls Minimise release to the environment. An environmental assessment must be made to ensure compliance with local environmental legislation.
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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Odour pH	Clear colourless. Liquid at room temperature.Slight hydrocarbonNot applicable.	
Initial Boiling Point and	: > 280 °C / 536 °F estimated value(s)	
Boiling Range		
Pour point	: Typical -39 °C / -38 °F	
Flash point	: Typical 286 °C / 547 °F (COC)	
Upper / lower Flammability	: Typical 1 - 10 %(V)	
or Explosion limits		
Auto-ignition temperature	: > 320 °C / 608 °F	
Vapour pressure	: < 0.5 Pa at 20 °C / 68 °F (estimated value(s))	
Specific gravity	: Typical 1.069 at 15 °C / 59 °F	
Density	: Typical 1,069 kg/m3 at 15 °C / 59 °F	
Water solubility	: Negligible.	
Solubility in other solvents	: Data not available	
n-octanol/water partition	: > 6 (based on information on similar products)	
coefficient (log Pow)		
Kinematic viscosity	: Typical 321 mm2/s at 40 °C / 104 °F	
Vapour density (air=1)	: > 1 (estimated value(s))	
Evaporation rate (nBuAc=1)	: Data not available	

10. STABILITY AND REACTIVITY

Stability	:	Stable.
Conditions to Avoid	:	Extremes of temperature and direct sunlight.
Materials to Avoid	:	Strong oxidising agents.
Hazardous	:	Hazardous decomposition products are not expected to form
Decomposition Products		during normal storage.

11. TOXICOLOGICAL INFORMATION

Basis for Assessment	: Information given is based on data on the components and the toxicology of similar products.
Acute Oral Toxicity	: Expected to be of low toxicity:LD50 > 5000 mg/kg, Rat
Acute Dermal Toxicity	: Expected to be of low toxicity:LD50 > 5000 mg/kg, Rabbit
Acute Inhalation Toxicity	: Not considered to be an inhalation hazard under normal conditions of use.
Skin Irritation	: Expected to be slightly irritating. Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.
Eye Irritation	: Expected to be slightly irritating.
Respiratory Irritation	: Inhalation of vapours or mists may cause irritation.
Sensitisation	: Not expected to be a skin sensitiser.
Repeated Dose Toxicity	: Not expected to be a hazard.

Mutagenicity Carcinogenicity	:	
Reproductive and Developmental Toxicity	:	Not expected to be a hazard.
Additional Information	:	Used oils may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and the environment on disposal. ALL used oil should be handled with caution and skin contact avoided as far as possible.

12. ECOLOGICAL INFORMATION

Ecotoxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the ecotoxicology of similar products.

Acute Toxicity	:	Poorly soluble mixture.May cause physical fouling of aquatic organisms.Expected to be practically non toxic:LL/EL/IL50 > 100 mg/l(to aquatic organisms)(LL/EL50 expressed as the nominal amount of product required to prepare aqueous test extract).
Mobility	:	Liquid under most environmental conditions. Sinks in water. If it enters soil, it will adsorb to soil particles and will not be mobile.
Persistence/degradability	:	Expected to be not readily biodegradable. Major constituents are expected to be inherently biodegradable, but the product contains components that may persist in the environment.
Bioaccumulation	:	Contains components with the potential to bioaccumulate.
Other Adverse Effects	:	Product is a mixture of non-volatile components, which are not expected to be released to air in any significant quantities. Not expected to have ozone depletion potential, photochemical ozone creation potential or global warming potential.
13. DISPOSAL CONSIDERATIONS		
Material Disposal	:	Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper

	properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Do not dispose into the environment, in drains or in water courses.
Container Disposal	: Dispose in accordance with prevailing regulations, preferably to a recognised collector or contractor. The competence of the collector or contractor should be established beforehand.
Local Legislation	 Disposal should be in accordance with applicable regional, national, and local laws and regulations.

14. TRANSPORT INFORMATION

ADG

This material is not classified as dangerous according to the Australian Dangerous Goods Code.

IMDG

This material is not classified as dangerous under IMDG regulations.

IATA (Country variations may apply)

This material is either not classified as dangerous under IATA regulations or needs to follow country specific requirements.

15. REGULATORY INFORMATION

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

SUSMP Schedule	:	Not scheduled.
Chemical Inventory Status EINECS	:	All components listed or polymer exempt.
TSCA	:	All components listed.
AICS	:	All components listed.
Other Information	:	National Code of Practice for the Preparation of Material Safety Data Sheets [NOHSC:2011] List of Designated Hazardous Substances [NOHSC:10005]. Approved Criteria for Classifying Hazardous Substances [NOHSC:1008]. Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003]. Australian Dangerous Goods Code. Standard for the Uniform Scheduling of Medicines and Poisons.

16. OTHER INFORMATION

R-phrase(s)

Not classified.

MSDS Version Number	:	2.0
MSDS Effective Date	:	14.07.2011
MSDS Revisions	:	A vertical bar () in the left margin indicates an amendment from the previous version.
MSDS Regulation	:	
MSDS Distribution	:	The information in this document should be made available to all who may handle the product.
Disclaimer	:	This information is based on our current knowledge and is intended to describe the product for the purposes of health,

safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.