Version 2.2	Revision Date 22.07.2021	Print Date 23.07.2021
SECTION 1. PRODUCT AND CO		
SECTION 1. PRODUCT AND CO	MPANTIDENTIFICATION	
Product name	: Shell Omala S2 G 150	
Product code	: 001D7836	
Manufacturer or supplier's	details	
Supplier	: Viva Energy Australia Pty Ltd (Formerly: The Shell Company of (ABN 46 004 610 459) 720 Bourke Street Docklands Victoria 3008 Australia	Australia)
Telephone	: +61 (0)3 8823 4444 ;	
Telefax	: +61 (0)3 8823 4800	
Emergency telephone number	: 1800 651 818 (Australia). POISOI CENTRE: 13 11 26 (Australia).	NS INFORMATION
Recommended use of the c	hemical and restrictions on use	
Recommended use	: Gear lubricant.	
SECTION 2. HAZARDS IDENTIFI	ICATION	
GHS Classification		
Not a dangerous substance o	or mixture according to the Globally Har	monised System (GHS).
GHS label elements		
Hazard pictograms	: No Hazard Symbol required	

Signal word

Hazard statements	 PHYSICAL HAZARDS: Not classified as a physical hazard under GHS criteria. HEALTH HAZARDS: Not classified as a health hazard under GHS criteria. ENVIRONMENTAL HAZARDS: Not classified as an environmental hazard under GHS criteria.
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: No signal word

Precautionary statements

Prevention: No precautionary phrases.

Response: No precautionary phrases.

Storage: No precautionary phrases.

Disposal:

:

Shell Omala S2 G 150

Version 2.2

Revision Date 22.07.2021 No precautionary phrases. Print Date 23.07.2021

Sensitising components : Contains amine phosphate.May produce an allergic reaction.

Other hazards which do not result in classification

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.Not classified as flammable but will burn.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

: Highly refined mineral oils and additives. The highly refined mineral oil contains <3% (w/w) DMSOextract, according to IP346.

Hazardous components

Chemical name	CAS-No.	Classification	Concentration [%]
Amine phosphate	91745-46-9	Acute Tox.4; H302 Skin Sens.1; H317 Eye Dam.1; H318 Aquatic Chronic2; H411	< 0.9

For explanation of abbreviations see section 16.

SECTION 4. FIRST-AID MEASURES

General advice	Not expected to be a health hazard when used und conditions.	er normal
If inhaled	No treatment necessary under normal conditions of If symptoms persist, obtain medical advice.	use.
In case of skin contact	Remove contaminated clothing. Flush exposed area water and follow by washing with soap if available. If persistent irritation occurs, obtain medical attention	
In case of eye contact	Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical attentic	on.
If swallowed	In general no treatment is necessary unless large q are swallowed, however, get medical advice.	uantities
Most important symptoms and effects, both acute and delayed	Oil acne/folliculitis signs and symptoms may include of black pustules and spots on the skin of exposed Ingestion may result in nausea, vomiting and/or dia	areas.
Protection of first-aiders	When administering first aid, ensure that you are we appropriate personal protective equipment according	

Shell Omala S2 G 150

rsion 2.2	Revision Date 22.07.2021 Print Date 23.07.20
	incident, injury and surroundings.
Notes to physician	: Treat symptomatically.
CTION 5. FIRE-FIGHTING MEA	SURES
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.
Specific hazards during firefighting	 Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates a gases (smoke). Carbon monoxide may be evolved if incomplete combustion occurs. Unidentified organic and inorganic compounds.
Specific extinguishing methods	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Special protective equipment for firefighters	: Proper protective equipment including chemical resistant gloves are to be worn; chemical resistant suit is indicated if large contact with spilled product is expected. Self-Containe Breathing Apparatus must be worn when approaching a fire a confined space. Select fire fighter's clothing approved to relevant Standards (e.g. Europe: EN469).
Hazchem Code	: NONE
CTION 6. ACCIDENTAL RELEA	ASE MEASURES
Personal precautions, protective equipment and	: Avoid contact with skin and eyes.
emergency procedures Environmental precautions	: Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.
	Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	 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 ot suitable material and dispose of properly.

Version 2.2	Revision Date 22.07.2021	Print Date 23.07.2021
Additional advice	 For guidance on selection of persone see Chapter 8 of this Safety Data For guidance on disposal of spille this Safety Data Sheet. 	Sheet.

SECTION 7. HANDLING AND STORAGE General Precautions : Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols. 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. Advice on safe handling : Avoid prolonged or repeated contact with skin. Avoid inhaling vapour and/or mists. When handling product in drums, safety footwear should be worn and proper handling equipment should be used. Properly dispose of any contaminated rags or cleaning materials in order to prevent fires. Avoidance of contact : Strong oxidising agents. **Product Transfer** : This material has the potential to be a static accumulator. Proper grounding and bonding procedures should be used during all bulk transfer operations. Storage Other data : Keep container tightly closed and in a cool, well-ventilated place. Use properly labeled and closable containers. Store at ambient temperature. Packaging material : Suitable material: For containers or container linings, use mild steel or high density polyethylene. Unsuitable material: PVC. **Container Advice** : Polyethylene containers should not be exposed to high

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Oil mist, mineral	Not Assigned	TWA (Mist)	5 mg/m3	AU OEL
Oil mist, mineral	Not Assigned	TWA	5 mg/m3	US. ACGIH

temperatures because of possible risk of distortion.

Version 2.2	Revision Da	ate 22.07.2021	Print Da	Print Date 23.07.2021	
		((inhalable fraction))		Threshold Limit Values	
Oil mist, mineral	Not Assigned	TWA (Mist)	5 mg/m3	Australia. Workplace Exposure Standards for Airborne Contaminant s.	
Oil mist, mineral	Not Assigned	TWA (Mist)	5 mg/m3	OSHA Z-1	
	Not Assigned	TWA (Inhalable fraction)	5 mg/m3	ACGIH	

Biological occupational exposure limits

No biological limit allocated.

Monitoring Methods

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate.

Validated exposure measurement methods should be applied by a competent person and samples analysed by an accredited laboratory.

Examples of sources of recommended exposure measurement methods are given below or contact the supplier. Further national methods may be available.

National Institute of Occupational Safety and Health (NIOSH), USA: Manual of Analytical Methods http://www.cdc.gov/niosh/

Occupational Safety and Health Administration (OSHA), USA: Sampling and Analytical Methods http://www.osha.gov/

Health and Safety Executive (HSE), UK: Methods for the Determination of Hazardous Substances http://www.hse.gov.uk/

Institut für Arbeitsschutz Deutschen Gesetzlichen Unfallversicherung (IFA), Germany http://www.dguv.de/inhalt/index.jsp

L'Institut National de Recherche et de Securité, (INRS), France http://www.inrs.fr/accueil

Where material is greater potential f General Informati Define procedure controls. Educate and train measures relevar product. Ensure appropria equipment used t equipment, local	tion to control airborne concentrations. heated, sprayed or mist formed, there is for airborne concentrations to be generated.
Drain down syste	m prior to equipment break-in or

rsion 2.2	Revision Date 22.07.2021	Print Date 23.07.2021
	maintenance. Retain drain downs in sealed stor subsequent recycle. Always observe good personal h washing hands after handling the drinking, and/or smoking. Routir protective equipment to remove contaminated clothing and footw Practice good housekeeping.	nygiene measures, such as e material and before eating, nely wash work clothing and contaminants. Discard
Personal protective equipment	nt	
Protective measures		
Personal protective equipment PPE suppliers.	(PPE) should meet recommended r	national standards. Check with
Respiratory protection	 No respiratory protection is ordin conditions of use. In accordance with good industrip precautions should be taken to a lf engineering controls do not ma concentrations to a level which is health, select respiratory protect specific conditions of use and ma Check with respiratory protective Where air-filtering respirators are appropriate combination of mask Select a filter suitable for the cor and vapours [Type A/Type P bo 	ial hygiene practices, avoid breathing of material. aintain airborne s adequate to protect worker ion equipment suitable for the eeting relevant legislation. e equipment suppliers. e suitable, select an k and filter. mbination of organic gases
Hand protection Remarks	: Where hand contact with the pro- gloves approved to relevant star US: F739) made from the followi suitable chemical protection. PV gloves Suitability and durability of usage, e.g. frequency and durati resistance of glove material, dex from glove suppliers. Contamina replaced. Personal hygiene is a care. Gloves must only be worn gloves, hands should be washed Application of a non-perfumed m	ndards (e.g. Europe: EN374, ing materials may provide C, neoprene or nitrile rubber of a glove is dependent on ion of contact, chemical sterity. Always seek advice ated gloves should be key element of effective hand on clean hands. After using d and dried thoroughly.
	For continuous contact we recombreakthrough time of more than for > 480 minutes where suitable short-term/splash protection we recognize that suitable gloves of may not be available and in this time maybe acceptable so long a and replacement regimes are fol a good predictor of glove resistand ependent on the exact composite that suitable so long a solution of the exact composite that suitable solutions are composed on the exact composed	240 minutes with preference e gloves can be identified. For recommend the same, but ffering this level of protection case a lower breakthrough as appropriate maintenance llowed. Glove thickness is not nce to a chemical as it is

Version 2.2		Revision Date 22.07.2021Print Date 23.07.2021Glove thickness should be typically greater than 0.35 mm depending on the glove make and model.	
Eye protection	:	If material is handled such that it could be splashed into eyes, protective eyewear is recommended.	
Skin and body protection	:	Skin protection is not ordinarily required beyond standard work clothes. It is good practice to wear chemical resistant gloves.	
Thermal hazards	:	Not applicable	
Environmental exposure cor	ntro	bls	
General advice	:	Take appropriate measures to fulfill the requirements of relevant environmental protection legislation. Avoid contamination of the environment by following advice given in Chapter 6. If necessary, prevent undissolved material from being discharged to waste water. Waste water should be treated in a municipal or industrial waste water treatment plan before discharge to surface water. Local guidelines on emission limits for volatile substances must be observed for the discharge of exhaust air containing vapour.	
ECTION 9. PHYSICAL AND CHE	EMI	CAL PROPERTIES	
Appearance	:	Liquid at room temperature.	
Colour	:	brown	
Odour	:	Slight hydrocarbon	
Odour Threshold	:	Data not available	
рН	:	Not applicable	
pour point	:	-24 °C / -11 °FMethod: ISO 3016	
Melting / freezing point		Data not available	
Initial boiling point and boiling range	:	> 280 °C / 536 °Festimated value(s)	

Flash point: 240 °C / 464 °F
Method: ISO 2592Evaporation rate: Data not availableFlammability (solid, gas): Data not availableUpper explosion limit: Typical 10 %(V)Lower explosion limit: Typical 1 %(V)

: < 0.5 Pa (20 °C / 68 °F)

Vapour pressure

range

rsion 2.2	Revision Date 22.07.2021 estimated value(s)	Print Date 23.07.2021
Relative vapour density	: > 1estimated value(s)	
Relative density	: 0.897 (15 °C / 59 °F)	
Density	: 897 kg/m3 (15.0 °C / 59.0 °F) Method: ISO 12185	
Solubility(ies)		
Water solubility	: negligible	
Solubility in other solvents	: Data not available	
Partition coefficient: n- octanol/water	: Pow: > 6(based on information or	n similar products)
Auto-ignition temperature	: > 320 °C / 608 °F	
Viscosity		
Viscosity, dynamic	: Data not available	
Viscosity, kinematic	: 15 mm2/s (100 °C / 212 °F) Method: ISO 3104	
	150 mm2/s (40.0 °C / 104.0 °F) Method: ISO 3104	
Explosive properties	: Not classified	
Oxidizing properties	: Data not available	
Conductivity	: This material is not expected to b	e a static accumulator.
Decomposition temperature	: Data not available	

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: The product does not pose any further reactivity hazards in addition to those listed in the following sub-paragraph.
Chemical stability	: Stable.
Possibility of hazardous reactions	: Reacts with strong oxidising agents.
Conditions to avoid	: Extremes of temperature and direct sunlight.
Incompatible materials	: Strong oxidising agents.
Hazardous decomposition products	: Hazardous decomposition products are not expected to form during normal storage.

Shell Omala S2 G 150

Version 2.2	Revision Date 22.07.2021	Print Date 23.07.2021
SECTION 11. TOXICOLOGICA	L INFORMATION	
Basis for assessment	: Information given is based on data the toxicology of similar products. the data presented is representativ whole, rather than for individual co	Inless indicated otherwise, ve of the product as a
Exposure routes	: Skin and eye contact are the prima although exposure may occur follo	,
Acute toxicity		
Product:		
Acute oral toxicity	: LD50 rat: > 5,000 mg/kg Remarks: Expected to be of low to	xicity:
Acute inhalation toxicity	: Remarks: Not considered to be an normal conditions of use.	inhalation hazard under

Acute dermal toxicity	: LD50 Rabbit: > 5,000 mg/kg Remarks: Expected to be of low toxicity:

Skin corrosion/irritation

Product:

Remarks: 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.

Serious eye damage/eye irritation

Product:

Remarks: Expected to be slightly irritating.

Components:

Amine phosphate:

Remarks: Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation

Product:

Remarks: Not expected to be a skin sensitiser.

Components:

Amine phosphate:

Remarks: Experimental data has shown that the concentration of potentially sensitising components present in this product does not induce skin sensitisation. May cause an allergic skin reaction in sensitive individuals.

Version 2.2 Revision Date 22.07.2021 Print Date 23.07.2021

Chronic toxicity

Germ cell mutagenicity

Product:

: Remarks: Not considered a mutagenic hazard.

Carcinogenicity

Product:

Remarks: Not expected to be carcinogenic.

Remarks: Product contains mineral oils of types shown to be non-carcinogenic in animal skinpainting studies., Highly refined mineral oils are not classified as carcinogenic by the International Agency for Research on Cancer (IARC).

Material	GHS/CLP Carcinogenicity Classification
Highly refined mineral oil	No carcinogenicity classification.

Reproductive toxicity

Product:

Remarks: Not expected to impair fertility., Not expected to be a developmental toxicant.

STOT - single exposure

Product:

Remarks: Not expected to be a hazard.

STOT - repeated exposure

Product:

Remarks: Not expected to be a hazard.

Aspiration toxicity

Product:

Not considered an aspiration hazard.

Further information

Product:

Version 2.2	Revision Date 22.07.2021	Print Date 23.07.2021
concentration of su	may contain harmful impurities that have accume ch impurities will depend on use and they may pro posal., ALL used oil should be handled with caution	esent risks to health and the

Remarks: Slightly irritating to respiratory system.

SECTION 12. ECOLOGICAL INFORMATION

Basis for assessment	 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. Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s).(LL/EL/IL50 expressed as the nominal amount of product required to prepare aqueous test extract).
Ecotoxicity	
Product:	
Toxicity to fish (Acute toxicity)	: Remarks: Expected to be practically non toxic: LL/EL/IL50 > 100 mg/l
Toxicity to crustacean (Acute toxicity)	: Remarks: Expected to be practically non toxic: LL/EL/IL50 > 100 mg/l
Toxicity to algae/aquatic plants (Acute toxicity)	: Remarks: Expected to be practically non toxic: LL/EL/IL50 > 100 mg/l
Toxicity to fish (Chronic	: Remarks: Data not available
toxicity) Toxicity to crustacean	: Remarks: Data not available
(Chronic toxicity) Toxicity to microorganisms (Acute toxicity)	: Remarks: Data not available
Persistence and degradability	
Product:	
Biodegradability	: Remarks: Expected to be not readily biodegradable., Major constituents are expected to be inherently biodegradable, but contains components that may persist in the environment.
Bioaccumulative potential	
Product:	
Bioaccumulation	: Remarks: Contains components with the potential to bioaccumulate.
11 / 1/	800001015784

Version 2.2	Revision Date 22.07.2021	Print Date 23.07.2021
Partition coefficient: n-	Pow: > 6Remarks: (based on informati	on on similar products)
Mobility in soil		
Product:		
Mobility	Remarks: Liquid under most environme enters soil, it will adsorb to soil particle mobile. Remarks: Floats on water.	
Other adverse effects		
no data available Product:		
Additional ecological	Product is a mixture of non-volatile corr expected to be released to air in any si Not expected to have ozone depletion photochemical ozone creation potential potential. Poorly soluble mixture., May cause phy organisms. Mineral oil is not expected to cause an aquatic organisms at concentrations le	gnificant quantities., potential, I or global warming ysical fouling of aquatic y chronic effects to

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues	:	Waste product should not be allowed to contaminate soil or ground water, or be disposed of into the environment. Waste, spills or used product is dangerous waste.
		Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.
Contaminated packaging	:	Dispose in accordance with prevailing regulations, preferably to a recognized collector or contractor. The competence of the collector or contractor should be established beforehand. Disposal should be in accordance with applicable regional, national, and local laws and regulations.

SECTION 14. TRANSPORT INFORMATION

National Regulations

ADG

Not regulated as a dangerous good

Version 2.2	Revision Date 22.07.2021	Print Date 23.07.2021
International Regulations		
IATA-DGR Not regulated as a dangerou	is good	
IMDG-Code Not regulated as a dangerou	us good	
Transport in bulk according to	Annex II of MARPOL 73/78 and the IB	C Code
Pollution category Ship type Product name Special precautions	 Not applicable Not applicable Not applicable Not applicable Not applicable 	
Special precautions for user		
Remarks	: Special Precautions: Refer to Cha for special precautions which a use needs to comply with in connection	er needs to be aware of or
Additional Information	: MARPOL Annex 1 rules apply for	bulk shipments by sea.

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Standard for the Uniform : No poison schedule number allocated Scheduling of Medicines and Poisons (SUSMP)

Product classified as per Work Health Safety Regulations – Implementation of the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) 2012 and SDS prepared as per national model code of practice for preparation of safety data sheet for Hazardous chemicals 2011 based on Globally Harmonized Classification version 3.

National Model Code of Practice for the Labelling of Workplace Hazardous Chemicals (2011).

Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG code).

Other international regulations

The components of this product are reported in the following inventories:

EINECS :	All components listed or polymer exempt.
TSCA :	All components listed.
AICS :	All components listed.

SECTION 16. OTHER INFORMATION

Full text of H-Statements

H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H411	Toxic to aquatic life with long lasting effects.
Full text of oth	er abbreviations
• • -	

Acute Tox. Acute toxicity

Shell Omala S2 G 150

Version 2.2		Revision Date 22.07.2021	Print Date 23.07.2021
Aquatic Chronic	Chronic aquatic toxicity		
Eye Dam.	Serious eye damage		
Skin Sens.	Skin sensitisation		
Abbreviations and Acro	nyms :	The standard abbreviations and acr document can be looked up in refer scientific dictionaries) and/or websit	ence literature (e.g.
Date of preparation or review		: 22.07.2021	
Further information			
Other information	:	A vertical bar () in the left margin in from the previous version.	dicates an amendment

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.