The content and format of this SDS is in accordance with HSNO Approved Code of Practice (No. HSNO CoP 8-1 09-06): Preparation of Safety Data Sheets.

Shell Gadinia AL 30

Version 2.3	Revision Date 30.12.2015	Print Date 31.12.2015
SECTION 1. PRODUCT AND CO	OMPANY IDENTIFICATION	
Product name	: Shell Gadinia AL 30	
Product code	: 901L4304	
Manufacturer or supplier's Supplier Telephone Telefax	details : Ixom Operations Pty Ltd (NZBN – 9429041465226) 166 Totara Street, Mt Maunganui South, New Zealand : +64 9 3682700 : +64 9 3682710	
Emergency telephone number	: 0800 734 607 (ALL HOURS)	
Recommended use of the Recommended use	chemical and restrictions on use : Engine oil.	

SECTION 2. HAZARDS IDENTIFICATION

NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS. Not classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001., Not classified as Dangerous Goods for transport, according to NZS 5433:2012 Transport of Dangerous Goods on Land.

Hazard classification

GHS Classification

Not a dangerous substance or mixture according to the Globally Harmonised System (GHS).

GHS Label element

Hazard pictograms	:	No Hazard Symbol required
Signal word	:	No 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.
Precautionary statements	:	

Prevention:

No precautionary phrases.

The content and format of this SDS is in accordance with HSNO Approved Code of Practice (No. HSNO CoP 8-1 09-06): Preparation of Safety Data Sheets.

Shell Gadinia AL 30

Version 2.3 Revision Date 30.12.2015 Print Date 31.12.2015

Response:

No precautionary phrases.

Storage:

No precautionary phrases.

Disposal:

No precautionary phrases.

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. 2 The highly refined mineral oil contains <3% (w/w) DMSOextract, according to IP346.

Hazardous components

Chemical Name	CAS-No.	Classification	Concentration [%]
Polybutenyl succinimide	Not Assigned	Aquatic Chronic4; H413	1 - 5

For explanation of abbreviations see section 16.

SECTION 4. FIRST-AID MEASURES

General advice	Not expected to be a health hazard when used u conditions.	under normal
If inhaled	No treatment necessary under normal conditions If symptoms persist, obtain medical advice.	s of use.
In case of skin contact	Remove contaminated clothing. Flush exposed a water and follow by washing with soap if availab If persistent irritation occurs, obtain medical atte	le.
	When using high pressure equipment, injection of under the skin can occur. If high pressure injurie casualty should be sent immediately to a hospita for symptoms to develop. Obtain medical attention even in the absence of wounds.	s occur, the al. Do not wait
In case of eye contact	Flush eye with copious quantities of water.	

Shell Gadinia AL 30

Version 2.3	Revision Date 30.12.2015	
If swallowed	If persistent irritation occursIn general no treatment is ne are swallowed, however, ge	ecessary unless large quantities
Most important symptoms and effects, both acute and delayed	of black pustules and spots	d symptoms may include formation on the skin of exposed areas. sea, vomiting and/or diarrhoea.
	Local necrosis is evidenced tissue damage a few hours	by delayed onset of pain and following injection.
Protection of first-aiders		I, ensure that you are wearing the tive equipment according to the dings.
Notes to physician	: Treat symptomatically.	
	damage and loss of function Because entry wounds are seriousness of the underlyin determine the extent of invo anaesthetics or hot soaks so can contribute to swelling, v	teroid therapy, to minimise tissue n. small and do not reflect the ng damage, surgical exploration to olvement may be necessary. Local hould be avoided because they rasospasm and ischaemia. Prompt bridement and evacuation of performed under general

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Foam, water spray or fog. Dry chemical powder, or dioxide, sand or earth may be used for small fires	
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 par gases (smoke). Carbon monoxide may be evolved if incomplete c occurs. Unidentified organic and inorganic compounds.	
Specific extinguishing methods	Use extinguishing measures that are appropriate circumstances and the surrounding environment.	to local
Special protective equipment for firefighters	Proper protective equipment including chemical regioners are to be worn; chemical resistant suit is in	

Shell Gadinia AL 30

Revision Date 30.12.2015	Print Date 31.12.2015		
large contact with spilled product is	expected. Self-Contained		
Breathing Apparatus must be worn when approaching a			
a confined space. Select fire fighter	's clothing approved to		
relevant Standards (e.g. Europe: E	EN469).		
	large contact with spilled product is Breathing Apparatus must be worn a confined space. Select fire fighter		

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Avoid contact with skin and eyes.
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 other suitable material and dispose of properly.
Additional advice	:	For guidance on selection of personal protective equipment see Chapter 8 of this Safety Data Sheet. For guidance on disposal of spilled material see Chapter 13 of this Safety Data 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

Shell Gadinia AL 30

Version 2.3	Revision Date 30.12.2015	Print Date 31.12.2015
	during all bulk transfer operations.	
Storage		
Other data	: Keep container tightly closed and in place. Use properly labeled and closable c	
	Store at ambient temperature.	
Packaging material	: Suitable material: For containers or steel or high density polyethylene. Unsuitable material: PVC.	container linings, use mild
Container Advice	: Polyethylene containers should not temperatures because of possible ri	

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Oil mist, mineral	Not Assigned	TWA ((inhalable fraction))	5 mg/m3	US. ACGIH Threshold Limit Values
Oil mist, mineral	Not Assigned	TWA (Mist)	5 mg/m3	New Zealand. Workplace Exposure Standards for Atmospheric Contaminant s
Oil mist, mineral	Not Assigned	(Mist)	10 mg/m3	New Zealand. Workplace Exposure Standards for Atmospheric Contaminant s
Oil mist, mineral	Not Assigned	TWA ((inhalable fraction))	5 mg/m3	US. ACGIH Threshold Limit Values
Oil mist, mineral	Not Assigned	TWA (Mist)	5 mg/m3	New Zealand. Workplace Exposure Standards for

Components with workplace control parameters

The content and format of this SDS is in accordance with HSNO Approved Code of Practice (No. HSNO CoP 8-1 09-06): Preparation of Safety Data Sheets.

Shell Gadinia AL 30

Version 2.3	Revision Da	ate 30.12.2015	Print Da	ate 31.12.2015
				Atmospheric Contaminant s
Oil mist, mineral	Not Assigned	(Mist)	10 mg/m3	New Zealand. Workplace Exposure Standards for Atmospheric Contaminant s

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

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

Engineering measures	 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.
	General Information: Define procedures for safe handling and maintenance of controls. Educate and train workers in the hazards and control measures relevant to normal activities associated with this product.

The content and format of this SDS is in accordance with HSNO Approved Code of Practice (No. HSNO CoP 8-1 09-06): Preparation of Safety Data Sheets.

Shell Gadinia AL 30

Version 2.3	Revision Date 30.12.2015	Print Date 31.12.2015
	Ensure appropriate selection, test	
	equipment used to control exposu	
	equipment, local exhaust ventilation	
	Drain down system prior to equipr	nent break-in or
	maintenance.	
	Retain drain downs in sealed stora	age pending disposal or
	subsequent recycle.	
	Always observe good personal hy washing hands after handling the drinking, and/or smoking. Routine protective equipment to remove co contaminated clothing and footwe	material and before eating, ely wash work clothing and pontaminants. Discard
	Practice good housekeeping.	

Personal protective equipment

Protective measures

Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

Hand protection Remarks: 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, 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. Application of a non-perfumed moisturizer is recommended.For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified. For short-term/splash protection we recommend the same, but recognize that suitable gloves offering this level of protection	Respiratory protection	 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 the combination of organic gases and vapours [Type A/Type P boiling point >65°C (149°F)].
		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, 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. Application of a non-perfumed moisturizer is recommended. For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified. For

The content and format of this SDS is in accordance with HSNO Approved Code of Practice (No. HSNO CoP 8-1 09-06): Preparation of Safety Data Sheets.

Shell Gadinia AL 30

Version 2.3		Revision Date 30.12.2015	Print Date 31.12.2015
		may not be available and in this time maybe acceptable so long and replacement regimes are f a good predictor of glove resist dependent on the exact compo Glove thickness should be typic depending on the glove make a	as appropriate maintenance ollowed. Glove thickness is not cance to a chemical as it is osition of the glove material. cally greater than 0.35 mm
Eye protection	:	If material is handled such that protective eyewear is recomme	
Skin and body protection	:	Skin protection is not ordinarily work clothes. It is good practice to wear cher	
Thermal hazards	:	Not applicable	
Environmental exposure cor	ntro	bls	
General advice	:	Take appropriate measures to relevant environmental protecti contamination of the environme Chapter 6. If necessary, preve being discharged to waste wate treated in a municipal or indust before discharge to surface wa	on legislation. Avoid ent by following advice given in int undissolved material from er. Waste water should be rial waste water treatment plant

Local guidelines on emission limits for volatile substances must be observed for the discharge of exhaust air containing vapour.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Liquid at room temperature.
Colour	:	amber
Odour	:	Slight hydrocarbon
Odour Threshold	:	Data not available
рН	:	Not applicable
pour point	:	-18 °C / -0.40 °FMethod: ASTM D97
Initial boiling point and boiling range	:	> 280 °C / 536 °Festimated value(s)
Flash point	:	>= 200 °C / >= 392 °F Method: ASTM D92
Evaporation rate	:	Data not available
Flammability (solid, gas)	:	Data not available

Shell Gadinia AL 30

Version 2.3	Revision Date 30.12.2015 Print Date 31.12.201	5
Upper explosion limit	: Typical 10 %(V)	
Lower explosion limit	: Typical 1 %(V)	
Vapour pressure	: < 0.5 Pa (20 °C / 68 °F) estimated value(s)	
Relative vapour density	: > 1estimated value(s)	
Relative density	: 0.893 (15 °C / 59 °F)	
Density	: 893 kg/m3 (15.0 °C / 59.0 °F) Method: ASTM D4052	
Solubility(ies)		
Water solubility	: negligible	
Solubility in other solvents	: Data not available	
Partition coefficient: n- octanol/water	: Pow: > 6(based on information on similar products)	
Auto-ignition temperature	: > 320 °C / 608 °F	
Viscosity		
Viscosity, dynamic	: Data not available	
Viscosity, kinematic	: 94.5 mm2/s (40.0 °C / 104.0 °F) Method: ASTM D445	
	11.4 mm2/s (100 °C / 212 °F) Method: ASTM D445	
Conductivity Decomposition temperature	This material is not expected to be a static accumulator.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.

The content and format of this SDS is in accordance with HSNO Approved Code of Practice (No. HSNO CoP 8-1 09-06): Preparation of Safety Data Sheets.

Shell Gadinia AL 30

Version 2.3	Revision Date 30.12.2015	Print Date 31.12.2015
Hazardous decomposition products	: Hazardous decomposition product during normal storage.	ts are not expected to form

SECTION 11. TOXICOLOGICAL INFORMATION

	Basis for assessment	:	Information given is based on data on the components and the toxicology of similar products.Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s).
	Information on likely routes of exposure	:	Skin and eye contact are the primary routes of exposure although exposure may occur following accidental ingestion.
Αсι	ute toxicity		
	Product:		
	Acute oral toxicity	:	LD50 rat: > 5,000 mg/kg Remarks: Expected to be of low toxicity:
	Acute inhalation toxicity	:	Remarks: Not considered to be an inhalation hazard under normal conditions of use.
	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.

Respiratory or skin sensitisation

Product:

Remarks: Not expected to be a skin sensitiser.

Chronic toxicity

Germ cell mutagenicity

Product:

: Remarks: Not considered a mutagenic hazard.

The content and format of this SDS is in accordance with HSNO Approved Code of Practice (No. HSNO CoP 8-1 09-06): Preparation of Safety Data Sheets.

Shell Gadinia AL 30

	Version 2.3 Revi	sion Date 30.12.2015	Print Date 31.12.201
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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:

Remarks: 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.

Remarks: Continuous contact with used engine oils has caused skin cancer in animal tests.

The content and format of this SDS is in accordance with HSNO Approved Code of Practice (No. HSNO CoP 8-1 09-06): Preparation of Safety Data Sheets.

Shell Gadinia AL 30

Version 2.3

Revision Date 30.12.2015

Print Date 31.12.2015

Remarks: Slightly irritating to respiratory system.

SECTION 12. ECOLOGICAL INFO	RMATION
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 toxicity)	: Remarks: Data not available
Toxicity to crustacean (Chronic toxicity)	: Remarks: Data not available
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.
Partition coefficient: n-	: Pow: > 6Remarks: (based on information on similar products)

Shell Gadinia AL 30

Version 2.3	Revision Date 30.12.2015	Print Date 31.12.2015
octanol/water		
Mobility in soil		
Product:		
Mobility :	Remarks: Liquid under most environmental conditions., If it enters soil, it will adsorb to soil particles and will not be mobile. Remarks: Floats on water.	
Other adverse effects		
no data available <u>Product:</u>		
Additional ecological : information	Product is a mixture of non-volatile comexpected to be released to air in any sin Not expected to have ozone depletion photochemical ozone creation potential potential. Poorly soluble mixture., May cause phyorganisms. Mineral oil is not expected to cause and 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 :	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 waste classification and disposal methods in compliance with applicable regulations. Do not dispose into the environment, in drains or in water courses
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.
Local legislation Remarks :	Disposal should be in accordance with applicable regional, national, and local laws and regulations.

SECTION 14. TRANSPORT INFORMATION

National Regulations

The content and format of this SDS is in accordance with HSNO Approved Code of Practice (No. HSNO CoP 8-1 09-06): Preparation of Safety Data Sheets.

Shell Gadinia AL 30

Revision Date 30.12.2015	Print Date 31.12.201
us good	
us good	
bus good	
o Annex II of MARPOL 73/78 and the IE	3C Code
 Not applicable Not applicable Not applicable Not applicable Not applicable 	
: Special Precautions: Refer to Ch for special precautions which a us needs to comply with in connection	ser needs to be aware of or
: MARPOL Annex 1 rules apply for	bulk shipments by sea.
NFORMATION	
	 bus good bus good b Annex II of MARPOL 73/78 and the IE a Not applicable b Not applicable c Not applicable c Not applicable c Not applicable c Special Precautions: Refer to Charles of the special precautions which a use needs to comply with in connection c MARPOL Annex 1 rules apply for the special precaution of the

R-phrase(s):Not classified.S-phrase(s):Not classified.

New Zealand Workplace Exposure Limits 2002 (WES). New Zealand Standard 5433:2012 Transport of Dangerous Goods on Land.

Other international regulations

The components of this product are reported in the following inventories:				
EINECS TSCA	 All components listed or polymer exempt. All components listed. 			

SECTION 16. OTHER INFORMATION

Full text of H-Statements

H413 May cause long lasting harmful effects to aquatic life. **Full text of other abbreviations**

Aquatic Chronic Chronic aquatic toxicity

The content and format of this SDS is in accordance with HSNO Approved Code of Practice (No. HSNO CoP 8-1 09-06): Preparation of Safety Data Sheets.

Shell Gadinia AL 30

Version 2.3	Revision Date 30.12.2015	Print Date 31.12.2015	
Abbreviations and Acronyms	document can be looked up in refe	 The standard abbreviations and acronyms used in this document can be looked up in reference literature (e.g. scientific dictionaries) and/or websites. 	
Further information			
Other information	: A vertical bar () in the left margin from the previous version.	indicates 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.