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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name	: Shell Omala S4 GX 220
Product code	: 001D7851

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub- stance/Mixture	: Gear lubricant.
Uses advised against	: This product must not be used in applications other than those listed in Section 1 without first seeking the advice of the sup- plier.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier	: ORBICO BULGARIA EOOD 24 Chelopeshko shousse street BG - 1839 BG- Sofia
Telephone Telefax	: +359 2 40 24 500 :
Contact for Safety Data Sheet	: office@orbicolubricants.bg
1.4 Emergency telephone nu	umber

: +359 2 915 42 33 / +359 2 915 44 11

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Based on available data this substance / mixture does not meet the classification criteria.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)				
Hazard pictograms Signal word		lo Hazard Symbol required lo signal word		
Hazard statements	: c	PHYSICAL HAZARDS: Not classified as a physical hazard according to CLP riteria.		
		HEALTH HAZARDS:		

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		ENVIRO	sified as a health hazard under CLP criteria. NMENTAL HAZARDS: sified as environmental hazard according to
Preca	utionary statements	Prevention:	
		No preca	autionary phrases.
		Response:	
		No preca	autionary phrases.
		Storage:	
		No preca	autionary phrases.
		Disposal:	
		•	autionary phrases.
0			

Safety data sheet available on request.

2.3 Other hazards

This mixture does not contain any REACH registered substances that are assessed to be a PBT or a vPvB.

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

3.2 Mixtures

Chemical nature : Blend of polyolefins and additives.

:

Components Remarks

Contains no hazardous ingredients according to GHS

SECTION 4: First aid measures

4.1 Description of first aid measures

Protection of first-aiders	:	When administering first aid, ensure that you are wearing the appropriate personal protective equipment according to the incident, injury and surroundings.
If inhaled	:	No treatment necessary under normal conditions of use. If symptoms persist, obtain medical advice.

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In c	ase of skin contact	:	ter and follow by	nated clothing. Flush exposed area with wa- washing with soap if available. ion occurs, obtain medical attention.
In c	ase of eye contact	:	Remove contact l rinsing.	pious quantities of water. enses, if present and easy to do. Continue ion occurs, obtain medical attention.
lf sv	vallowed	:		tment is necessary unless large quantities owever, get medical advice.
4.2 Mos	t important symptoms a	nd e	effects, both acute	e and delayed
Syn	nptoms	:	of black pustules	s signs and symptoms may include formation and spots on the skin of exposed areas. sult in nausea, vomiting and/or diarrhoea.
4.3 India	cation of any immediate	meo	dical attention and	d special treatment needed
Tre	atment	:	Notes to doctor/p Treat symptomati	
Suit	nguishing media able extinguishing media suitable extinguishing	:		y or fog. Dry chemical powder, carbon diox- may be used for small fires only. in a jet.
mee				
5.2 Spec	cial hazards arising from	n the	e substance or mi	xture
Spe figh	cific hazards during fire- ting	:	A complex mixtur gases (smoke). Carbon monoxide occurs.	ustion products may include: e of airborne solid and liquid particulates and e may be evolved if incomplete combustion nic and inorganic compounds.
5.3 Advi	ce for firefighters			
	cial protective equipment irefighters	:	gloves are to be a large contact with Breathing Appara a confined space	equipment including chemical resistant worn; chemical resistant suit is indicated if spilled product is expected. Self-Contained tus must be worn when approaching a fire in Select fire fighter's clothing approved to is (e.g. Europe: EN469).
Spe ods	cific extinguishing meth-	:		measures that are appropriate to local cir- the surrounding environment.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	6.1.1 For non emergency personnel:Avoid contact with skin and eyes.6.1.2 For emergency responders:Avoid contact with skin and eyes.

6.2 Environmental precautions

Environmental precautions	:	Use appropriate containment to avoid environmental contami- nation. 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.

6.3 Methods and material for containment and cleaning up

Methods for 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.
		suitable material and dispose of property.

6.4 Reference to other sections

For guidance on selection of personal protective equipment see Section 8 of this Safety Data Sheet., For guidance on disposal of spilled material see Section 13 of this Safety Data Sheet.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures	:	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 mate- rials in order to prevent fires.
Product Transfer	:	Proper grounding and bonding procedures should be used during all bulk transfer operations to avoid static accumulation.

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	ions for safe storage, r information on stor- ability	inc :	Keep container tig place.	ghtly closed and in a cool, well-ventilated
Packa	ging material	:	ering the packagi	
Contai	ner Advice	:		tainers should not be exposed to high tem- e of possible risk of distortion.
-	c end use(s) ic use(s)	:	Not applicable	

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Biological occupational exposure limits

8.2 Exposure controls

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.

Ensure appropriate selection, testing and maintenance of equipment used to control exposure, e.g. personal protective equipment, local exhaust ventilation.

Drain down system prior to equipment break-in or maintenance.

Retain drain downs in sealed storage pending disposal or subsequent recycle.

Always observe good personal hygiene measures, such as washing hands after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

Personal protective equipment

The provided information is made in consideration of the PPE directive (Council Directive

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89/68	86/EEC) and the CEN	European Committee	for Standardisation (CEN) standards.
	onal protective equipm suppliers.	ent (PPE) should mee	et recommended national standards. Check with
Eye p	protection	protective eye	andled such that it could be splashed into eyes, wear is recommended. U Standard EN166.
Hand	I protection		
R	emarks	gloves approve US: F739) mad suitable chemi gloves Suitabil usage, e.g. fre sistance of glo glove suppliers Personal hygie Gloves must o gloves, hands cation of a nor For continuous through time o 480 minutes w short-term/spla recognize that may not be ava time maybe ac and replaceme a good predict dependent on Glove thicknes	ontact with the product may occur the use of ed to relevant standards (e.g. Europe: EN374, de from the following materials may provide cal protection. PVC, neoprene or nitrile rubber ity and durability of a glove is dependent on quency and duration of contact, chemical re- ve material, dexterity. Always seek advice from s. Contaminated gloves should be replaced. ene is a key element of effective hand care. nly be worn on clean hands. After using should be washed and dried thoroughly. Appli- perfumed moisturizer is recommended. a contact we recommend gloves with break- f more than 240 minutes with preference for > here suitable gloves can be identified. For ash protection we recommend the same but suitable gloves offering this level of protection ailable and in this case a lower breakthrough ceptable so long as appropriate maintenance ent regimes are followed. Glove thickness is not or of glove resistance to a chemical as it is the exact composition of the glove material. as should be typically greater than 0.35 mm the glove make and model.
Skin	and body protection	work clothes.	is not ordinarily required beyond standard
Resp	iratory protection	conditions of u In accordance tions should be If engineering tions to a level select respirate cific conditions Check with res Where air-filter priate combina	protection is ordinarily required under normal se. with good industrial hygiene practices, precau- e taken to avoid breathing of material. controls do not maintain airborne concentra- which is adequate to protect worker health, ory protection equipment suitable for the spe- of use and meeting relevant legislation. piratory protective equipment suppliers. ring respirators are suitable, select an appro- tion of mask and filter.

Select a filter suitable for combined particulate/organic gases

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and vapours [Type A/Type P boiling point > $65^{\circ}C$ (149°F)] meeting EN14387 and EN143.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical Physical state	an :	d chemical properties Liquid at room temperature.
Colour	:	amber
Odour	:	Data not available
Odour Threshold	:	Data not available
pour point	:	-45 °C Method: ISO 3016
Melting / freezing point		Data not available
Initial boiling point and boiling range	:	> 280 °Cestimated value(s)
Flammability		
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	Not classified as flammable but will burn.
Lower explosion limit and uppe	er ex	xplosion limit / flammability limit
Upper explosion limit / upper flammability limit	:	Typical 10 %(V)
Lower explosion limit / Lower flammability limit	:	Typical 1 %(V)
Flash point	:	250 °C Method: ISO 2592
Auto-ignition temperature	:	> 320 °C
Decomposition temperature Decomposition tempera- ture	:	Data not available
рН	:	Not applicable
Viscosity Viscosity, dynamic	:	Data not available
Viscosity, kinematic	:	230 mm2/s (40 °C)

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				Method: ASTM [
				30 mm2/s (100 ° Method: ASTM E	
	Solubil Wat	ity(ies) ter solubility	:	negligible	
	Solu	ubility in other solvents	:	Data not availabl	e
	Partitio octano	n coefficient: n- I/water	:	log Pow: > 6 (based on inform	ation on similar products)
	Vapou	r pressure	: < 0,5 Pa (20 °C) estimated value(s)		
	Relativ	e density	: 0,881 (15 °C)		
	Density	ý	:	881 kg/m3 (15,0 Method: ISO 121	
	Relativ	e vapour density	:	> 5	
		e characteristics ticle size	:	Data not availabl	e
		nformation			
	Explos		:	Classification Co	de: Not classified
	Oxidizi	ng properties	:	Data not availabl	e
	Flamm	ability (liquids)	:	Not classified as	flammable but will burn.
	Evapor	ration rate	:	Data not availabl	e
	Condu	ctivity	:	This material is r	ot expected to be a static accumulator.

SECTION 10: Stability and reactivity

10.1 Reactivity

The product does not pose any further reactivity hazards in addition to those listed in the following sub-paragraph.

10.2 Chemical stability

Stable.

No hazardous reaction is expected when handled and stored according to provisions

10.3 Possibility of hazardous reactions

Hazardous reactions : Reacts with strong oxidising agents.

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	ditions to avoid litions to avoid	: E	xtremes of t	emperature and direct sunlight.
	mpatible materials rials to avoid	: S	trong oxidisi	ng agents.
	ardous decomposition	•		ed.
SECTION	N 11: Toxicological	informa	ition	
	nation on likely routes	of : Sł	kin and eye d	Regulation (EC) No 1272/2008 contact are the primary routes of exposure alt- re may occur following accidental ingestion.
Acut	e toxicity			
Prod Acute	<u>uct:</u> e oral toxicity	Re	050 (rat): > 5 emarks: Low ased on avai	
Acute	e inhalation toxicity		emarks: Bas e not met.	ed on available data, the classification criteria
Acute	e dermal toxicity	Re	emarks: Low	> 5.000 mg/kg toxicity lable data, the classification criteria are not met.
Skin	corrosion/irritation			
<u>Prod</u>	uct:			
Rema	arks	Pr ca ac	n clog the p ne/folliculitis	epeated skin contact without proper cleaning pres of the skin resulting in disorders such as oil

Serious eye damage/eye irritation

Product:

Remarks	:	Slightly irritating to the eye.
		Based on available data, the classification criteria are not met.

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Res	piratory or skin sensitis	satio	on	
<u>Pro</u>	duct:			
Ren	narks	:	Not a sensitiser.	nd skin sensitisation: le data, the classification criteria are not met.
Ger	m cell mutagenicity			
Pro	duct:			
Ger	notoxicity in vivo	:	Remarks: Non mu Based on availab	utagenic le data, the classification criteria are not met.
	m cell mutagenicity- As- sment	÷	This product does categories 1A/1B	s not meet the criteria for classification in
Car	cinogenicity			
Pro	duct:			
Ren	narks	:	Not a carcinogen. Based on availab	le data, the classification criteria are not met.
Care	cinogenicity - Assess- nt	:	This product does categories 1A/1B	s not meet the criteria for classification in

Reproductive toxicity		
Product: Effects on fertility	:	Remarks: Not a developmental toxicant., Does not impair fertility., Based on available data, the classification criteria are not met.
Reproductive toxicity - As-	:	This product does not meet the criteria for classification in categories 1A/1B.
STOT - single exposure		
Product: Remarks	:	Based on available data, the classification criteria are not met.

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;	стот -	repeated exposure			
<u> </u>	<u>Produc</u>	<u>t:</u>			
ļ	Remark	S	:	Based on availabl	le data, the classification criteria are not met.
	Aspirat	ion toxicity			
<u> </u>	Produc	<u>t:</u>			
I	Not an a	aspiration hazard., Ba	sed	on available data,	the classification criteria are not met.
11.2	Informa	ation on other hazard	ds		
I	Further	information			
<u> </u>	Produc	<u>t:</u>			
	Remark	.s	:	lated during use. depend on use ar environment on d	Id be handled with caution and skin contact
l	Remark	S	:	Slightly irritating to	o respiratory system.
	Remark	S	:	Classifications by frameworks may e	other authorities under varying regulatory exist.
I	Remark	S	:		otherwise, the data presented is representa- t as a whole, rather than for individual com-

SECTION 12: Ecological information

12.1 Toxicity

Product: Toxicity to fish Remarks: Based on available data, the classification criteria are not : met. Practically non toxic: LL/EL/IL50 > 100 mg/lRemarks: Based on available data, the classification criteria are not Toxicity to daphnia and other : aquatic invertebrates met. Practically non toxic: $LL/EL/IL50 > 100 \ mg/l$ Toxicity to algae/aquatic plants Remarks: Based on available data, the classification criteria are not : met. Practically non toxic: LL/EL/IL50 > 100 mg/l

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Toxici icity)	ty to fish (Chronic tox-	: Remarks: Based of met.	n available data, the classification criteria are not
	ity to daphnia and other ic invertebrates (Chron- city)	: Remarks: Based of met.	n available data, the classification criteria are not
Toxici	ty to microorganisms	: Remarks: Based o met.	n available data, the classification criteria are not
12.2 Persi	stence and degradabil	ty	
Produ Biode	<u>uct:</u> gradability	Major constituent ponents that may Persistent per IMC International Oil I "A non-persistent of hydrocarbon fr distills at a temper which, by volume	dily biodegradable. s are inherently biodegradable, but contains com- persist in the environment. O criteria. Pollution Compensation (IOPC) Fund definition: oil is oil, which, at the time of shipment, consists actions, (a) at least 50% of which, by volume, rature of 340°C (645°F) and (b) at least 95% of , distils at a temperature of 370°C (700°F) when M Method D-86/78 or any subsequent revision
12.3 Bioad	cumulative potential		
Produ Bioac	<u>uct:</u> cumulation	: Remarks: Contain	s components with the potential to bioaccumulate.
12.4 Mobi	lity in soil		
<u>Produ</u> Mobili			under most environmental conditions., If it adsorb to soil particles and will not be mo-
		Remarks: Floats	on water.
12.5 Resu	Its of PBT and vPvB as	sessment	
Produ	<u>uct:</u>		
	ssment		es not contain any REACH registered sub- assessed to be a PBT or a vPvB

12.6 Endocrine disrupting properties

no data available

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12.7 Other adverse effects

Additional ecological infor- mation	: Does not have ozone depletion potential, photochemical ozone crea- tion potential or global warming potential. Product is a mixture of non-volatile components, which will not be released to air in any significant quantities under normal conditions of use.
	Poorly soluble mixture. Causes physical fouling of aquatic organisms.

Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s).

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	 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. Waste product should not be allowed to contaminate soil or ground water, or be disposed of into the environment. Do not dispose into the environment, in drains or in water courses. Do not dispose of tank water bottoms by allowing them to drain into the ground. This will result in soil and groundwate contamination. Waste arising from a spillage or tank cleaning should be disposed of in accordance with prevailing regulations, preferate to a recognised collector or contractor. The competence of collector or contractor should be established beforehand.) :h- r er s- bly
	MARPOL - see International Convention for the Prevention Pollution from Ships (MARPOL 73/78) which provides tech- nical aspects at controlling pollutions from ships.	
Contaminated packaging	Dispose in accordance with prevailing regulations, preferab to a recognized collector or contractor. The competence of the collector or contractor should be established beforehan Disposal should be in accordance with applicable regional, national, and local laws and regulations.	f Id.
Local legislation		
Waste catalogue	: EU Waste Disposal Code (EWC):	

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Waste	e Code	: 13 02 06*			
Remarks		: Classification of user.	: Classification of waste is always the responsibility of the end user.		
		•	Disposal should be in accordance with applicable regional, national, and local laws and regulations.		

SECTION 14: Transport information

14.1 UN number or ID number		
ADN	:	Not regulated as a dangerous good
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG IATA	:	Not regulated as a dangerous good Not regulated as a dangerous good
14.2 UN proper shipping name		
ADN	:	Not regulated as a dangerous good
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG IATA	:	Not regulated as a dangerous good Not regulated as a dangerous good
14.3 Transport hazard class(es)		
ADN	:	Not regulated as a dangerous good
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG IATA	:	Not regulated as a dangerous good Not regulated as a dangerous good
14.4 Packing group		
ADN	:	Not regulated as a dangerous good
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG IATA	:	Not regulated as a dangerous good Not regulated as a dangerous good
14.5 Environmental hazards		
ADN	:	Not regulated as a dangerous good
ADR	:	Not regulated as a dangerous good

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RID			Not regulated as	a departous good	
RID		•	Not regulated as	a dangerous good	
IMDG		:	Not regulated as a dangerous good		
14.6 Speci	al precautions for us	er			
Remarks		:	Special Precautions: Refer to Section 7, Handling & Storage for special precautions which a user needs to be aware of or needs to comply with in connection with transport.		

14.7 Maritime transport in bulk according to IMO instruments

MARPOL Annex 1 rules apply for bulk shipments by sea.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	:	Product is not subject to Authorisa- tion under REACH.

Volatile organic compounds : Volatile organic compounds (VOC) content: 0 %

Other regulations:

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

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

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: Other information

Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Test-

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ing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Training advice :	Provide adequate information, instruction and training for op- erators.
Other information :	No Exposure Scenario annex is attached to this safety data sheet as it is a non-classified mixture containing no hazardous substances.
	Under Article 31 of REACH, a SDS is not required for this product. Therefore, this SDS has been created on a voluntary basis to pass on potentially relevant information required under Article 32.
	A vertical bar () in the left margin indicates an amendment from the previous version.
Sources of key data used to : compile the Safety Data Sheet	The quoted data are from, but not limited to, one or more sources of information (e.g. toxicological data from Shell Health Services, material suppliers' data, CONCAWE, EU IUCLID date base, EC 1272 regulation, etc).

According to EC No 1907/2006 as amended as at the date of this SDS

Shell Omala S4 GX 220

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