### Shell Gadus S4 Z100A 2

Version 1.1		Revision Date 2024.08.19	Print Date 2024.11.05	
1. PRODUCT AND COMPANY IDENTIFICATION				
Chemical product name	:	Shell Gadus S4 Z100A 2		
Product code	:	001J9442		
<b>Manufacturer or supplier's o</b> Supplier's company name, address and phone number	leta :	Shell Lubricants Japan K.K. Pacific Century Place Marunouchi 12F 1-11-1, Marunouchi Chiyoda-ku Tokyo 100-6212		
Telephone Telefax	:	Japan (+81) 03-3218-1780 (+81) 03-3218-1781		
Emergency telephone number	:	[Important notice for customer support] If you need support for product, please service centre. Lub Customer Service Centre (Lub CS Tel. 0120-064-315 / Fax. 0120-264-31 E-mail. Inquiries-Lubes-JP@shell.com (Available for Japanese office hours or	contact our customer C) 5 (JP Toll free)	
Contact for Safety Data Sheet	:	If you have any enquiries about the c please email lubricantSDS@shell.con		
Recommended use of the ch	nen	nical and restrictions on use		
Recommended use	:	Automotive and industrial grease.		
Restrictions on use	:	This substance may not be used for an recommended without expert advice	y purpose other than	

### 2. HAZARDS IDENTIFICATION

GHS classification of chemical product				
Short-term (acute) a hazard	aquatic : Cate	gory 3		
Long-term (chronic) hazard	aquatic : Categ	jory 3		
GHS label element	S			
Hazard pictograms	: No H	azard Symbol required		
Signal word	: No si	gnal word		

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Hazard statements	<ul> <li>PHYSICAL HAZARDS: Not classified as a physical hazard under GHS criteria. HEALTH HAZARDS: Not classified as a health hazard under GHS criteria. ENVIRONMENTAL HAZARDS: H412 Harmful to aquatic life with long lasting effects.</li> </ul>	
Precautionary statements	: <b>Prevention:</b> P273 Avoid release to the environmer	nt.
	<b>Response:</b> No precautionary phrases.	
	<b>Storage:</b> No precautionary phrases.	
	<b>Disposal:</b> P501 Dispose of contents/ container to disposal plant.	o an approved waste

#### 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 grease may contain harmful impurities.High-pressure injection under the skin may cause serious damage including local necrosis.Not classified as flammable but will burn.

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

3.2 Mixtures

Chemical nature : A lubricating grease containing polyolefins, synthetic esters and additives. The highly refined mineral oil contains <3% (w/w) DMSOextract, according to IP346. Classification based on DMSO extract content < 3% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note L). The highly refined mineral oil is only present as additive diluent.

### Components

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Substance name	CAS-No.	Classification	Concentration (% w/w)	
Calcium soap thickener	2090-05-3	Eye Irrit.2; H319	1 - 3	
Quaternary ammonium compounds	61789-72-8	Acute Tox.4; H302 Skin Corr.1; H314 Eye Dam.1; H318 Aquatic Acute1; H400 Aquatic Chronic1; H410	0.25 - 0.9	
Zinc oxide	1314-13-2	Aquatic Acute1; H400 Aquatic Chronic1; H410	0.1 - 0.24	

For explanation of abbreviations see section 16.

### 4. FIRST-AID MEASURES

If inhaled	:	No treatment necessary under normal conditions of use. If symptoms persist, obtain medical advice.
In case of skin contact	:	Remove contaminated clothing. Flush exposed area with water and follow by washing with soap if available. If persistent irritation occurs, obtain medical attention.
		When using high pressure equipment, injection of product under the skin can occur. If high pressure injuries occur, the casualty should be sent immediately to a hospital. Do not wait for symptoms to develop. Obtain medical attention even in the absence of apparent wounds.
In case of eye contact	:	Flush eye with copious quantities of water. Remove contact lenses, if present and easy to do. Continue rinsing. If persistent irritation occurs, obtain medical attention.
If swallowed	:	In general no treatment is necessary unless large quantities are swallowed, however, get medical advice.
Most important symptoms and effects, both acute and delayed	:	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.
		Local necrosis is evidenced by delayed onset of pain and tissue damage a few hours following injection.

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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.
Notes to physician	: Treat symptomatically.
	High pressure injection injuries require prompt surgical intervention and possibly steroid therapy, to minimise tissue damage and loss of function. Because entry wounds are small and do not reflect the seriousness of the underlying damage, surgical exploration to determine the extent of involvement may be necessary. Local anaesthetics or hot soaks should be avoided because they can contribute to swelling, vasospasm and ischaemia. Prompt surgical decompression, debridement and evacuation of foreign material should be performed under general anaesthetics, and wide exploration is essential.
5. FIRE-FIGHTING MEASURES	
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	<ul> <li>Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide may be evolved if incomplete combustion occurs. Unidentified organic and inorganic compounds.</li> </ul>
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-Contained Breathing Apparatus must be worn when approaching a fire in a confined space. Select fire fighter's clothing approved to relevant Standards (e.g. Europe: EN469).

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions,	: Avoid contact with skin and eyes.
protective equipment and	
emergency procedures	
Environmental precautions	: Use appropriate containment to prevent uncontrolled release.

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	Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.	
Methods and materials for containment and cleaning up	: Shovel into a suitable clearly mark reclamation in accordance with loc	
Additional advice	: For guidance on selection of person see Section 8 of this Safety Data S For guidance on disposal of spilled this Safety Data Sheet.	Sheet.

Handling	
Technical measures	<ul> <li>Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols.</li> <li>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 this material.</li> </ul>
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.
Facial protective equipment	: If material is handled such that it could be splashed into eyes protective eyewear is recommended.
Describe contact avoidance, etc	: Strong oxidising agents.
Storage	
Other data	<ul> <li>Keep container tightly closed and in a cool, well-ventilated place.</li> <li>Use properly labeled and closable containers.</li> </ul>
	Store at ambient temperature.
Packaging material	<ul> <li>Suitable material: For containers or container linings, use mi steel or high density polyethylene. Unsuitable material: PVC.</li> </ul>
Container Advice	: Polyethylene containers should not be exposed to high temperatures because of possible risk of distortion.

### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

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Threshold limit value and permissible exposure limits for each component in the work environment

### 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

労働者の健康障害を防止するため化学物質の濃度基準値とその適用方法などを定めました (mhlw.go.jp)

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

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	protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.
	Due to the product's semi-solid consistency, generation of mists and dusts is unlikely to occur.
Personal protective equipme	nt
Protective measures	
Personal protective equipment PPE suppliers.	(PPE) should meet recommended national standards. Check with
Respiratory protection	<ul> <li>No respiratory protection is ordinarily required under normal conditions of use.</li> <li>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.</li> <li>Select a filter suitable for the combination of organic gases and vapours and particles [Type A/Type P boiling point &gt;65°C (149°F)].</li> </ul>
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 may not be available and in this case a lower breakthrough time maybe acceptable so long as appropriate maintenance and replacement regimes are followed. Glove thickness is not a good predictor of glove resistance to a chemical as it is dependent on the exact composition of the glove material. Glove thickness should be typically greater than 0.35 mm

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Eye and face protection		If material is handled such that it could be splashed into eyes, protective eyewear is recommended.		
Skin and body protection	work clothes.	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 co	Environmental exposure controls			
General advice	: Take appropriate measures to fulfill relevant environmental protection le contamination of the environment b Section 6. If necessary, prevent un being discharged to waste water. W treated in a municipal or industrial w before discharge to surface water. Local guidelines on emission limits must be observed for the discharge vapour.	egislation. Avoid by following advice given in dissolved material from Vaste water should be waste water treatment plant for volatile substances		

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: paste
Colour	: brown
Odour	: Slight hydrocarbon
Odour Threshold	: Data not available
рН	: Not applicable
Drop point	: >= 300 °C / >= 572 °F Method: ASTM D566
Melting / freezing point	Not applicable
Boiling point, initial boiling point and boiling range	: Data not available
Flash point	: Method: ASTM D92 (COC)
Evaporation rate	: Data not available
Flammability	
Flammability (solid, gas)	: Not applicable
Flammability (liquids)	: Not classified as flammable but will burn.

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	per explosion limit / flammability limit	
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)	
Density and / or relative dens	ity	
Density	: 1,000 kg/m3 (15.0 °C / 59.0 °F) Method: Unspecified	
Solubility(ies)		
Water solubility	: negligible	
Solubility in other solvents	: Data not available	
Partition coefficient: n- octanol/water	: log Pow: > 6 (based on information on similar	products)
Auto-ignition point	: > 320 °C / 608 °F	
Decomposition temperature	: Data not available	
Viscosity		
Viscosity (Dynamic)	: Data not available	
Viscosity, kinematic	: 100 mm2/s (40.0 °C / 104.0 °F) Method: ASTM D445	
	12.1 mm2/s (100 °C / 212 °F) Method: ASTM D445	
Particle characteristics		
Particle size	: Data not available	
	Data not available	
Explosive properties	: Classification Code: Not classified	d
Oxidizing properties	: Data not available	
Conductivity	: This material is not expected to b	a a station and taken

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10. STABILITY AND REACTIVITY		
Reactivity	: The product does not pose any further reactivity addition to those listed in the following sub-parag	
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	: No decomposition if stored and applied as directed	əd.

<b>11. TOXICOLOGICAL INFORMATION</b>
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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.
Acute toxicity		
Product:		
Acute oral toxicity	:	LD50 rat: > 5,000 mg/kg Remarks: Low toxicity Based on available data, the classification criteria are not met.
Acute inhalation toxicity	:	Remarks: Based on available data, the classification criteria are not met.
Acute dermal toxicity	:	LD50 Rabbit: > 5,000 mg/kg Remarks: Low toxicity Based on available data, the classification criteria are not met.

### Skin corrosion/irritation

### Product:

Remarks: Slightly irritating to skin., Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis., Based on available data, the classification criteria are not met.

### Serious eye damage/eye irritation

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#### Product:

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

#### Respiratory or skin sensitisation

### Product:

Remarks: Not a skin sensitiser. Based on available data, the classification criteria are not met.

#### Germ cell mutagenicity

#### Product:

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

### Carcinogenicity

#### Product:

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

Material	GHS/CLP Carcinogenicity Classification
Calcium soap thickener	No carcinogenicity classification.
Quaternary ammonium compounds	No carcinogenicity classification.
Zinc oxide	No carcinogenicity classification.

### **Reproductive toxicity**

#### Product:

Remarks: Not a developmental toxicant., Does not impair fertility., Based on available data, the classification criteria are not met.

### STOT - single exposure

### Product:

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

#### STOT - repeated exposure

### Product:

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

### Aspiration toxicity

### Product:

Not an aspiration hazard.

#### **Further information**

#### Product:

Remarks: Used grease may contain harmful impurities that have accumulated during use. The concentration of such harmful impurities will depend on use and they may present risks to health and the environment on disposal., ALL used grease should be handled with caution and skin contact avoided as far as possible.

Remarks: High pressure injection of product into the skin may lead to local necrosis if the product is not surgically removed.

Remarks: Slightly irritating to respiratory system.

#### 12. ECOLOGICAL INFORMATION

Basis for assessment	<ul> <li>Ecotoxicological data have not been determined specifically for this product.</li> <li>Information given is based on a knowledge of the components and the ecotoxicology of similar products.</li> <li>Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s).</li> </ul>
Ecotoxicity	
Product:	
Toxicity to fish (Acute toxicity)	: Remarks: LL/EL/IL50 10-100 mg/l Harmful
Toxicity to crustacean (Acute toxicity)	: Remarks: LL/EL/IL50 10-100 mg/l Harmful
Toxicity to algae/aquatic plants (Acute toxicity)	: Remarks: LL/EL/IL50 10-100 mg/l Harmful
Toxicity to fish (Chronic toxicity)	: Remarks: Data not available
Toxicity to crustacean (Chronic toxicity)	: Remarks: Data not available

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Toxicity to microorganisms (Acute toxicity)	: Remarks: Data not available	
<u>Components:</u> Zinc oxide :		
M-Factor (Short-term (acute) aquatic hazard)	:	
M-Factor (Long-term (chronic) aquatic hazard)	: 1 : 1	
Persistence and degradability		
Product:		
Biodegradability	: Remarks: Not readily biodegradable inherently biodegradable, but contain persist in the environment.	
Bioaccumulation		
Product:		
Bioaccumulation	: Remarks: Contains components with bioaccumulate.	n the potential to
Partition coefficient: n- octanol/water	: log Pow: > 6Remarks: (based on info products)	ormation on similar
Mobility in soil		
Product:		
Mobility	<ul> <li>Remarks: Semi-solid under most envit enters soil, it will adsorb to soil par mobile.</li> <li>Remarks: Floats on water.</li> </ul>	
Other adverse effects		
no data available <u>Product:</u>		
Additional ecological information	<ul> <li>Does not have ozone depletion pote ozone creation potential or global wa is a mixture of non-volatile compone released to air in any significant quar conditions of use.</li> <li>Poorly soluble mixture., Causes physorganisms.</li> </ul>	arming potential., Product nts, which will not be ntities under normal
Hazardous to the ozone layer		
Not applicable		

### 13. DISPOSAL CONSIDERATIONS

### **Disposal methods**

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Chemicals (residual waste)	:	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.	
		Waste product should not be allowed to ground water, or be disposed of into the Waste, spills or used product is danger Waste arising from a spillage or tank cl disposed of in accordance with prevailing preferably to a recognised collector or of competence of the collector or contract established beforehand. Do not dispose of tank water bottoms be drain into the ground. This will result in contamination.	e environment. ous waste. eaning should be ng regulations, contractor. The or should be by allowing them to
		MARPOL - see International Conventio Pollution from Ships (MARPOL 73/78) technical aspects at controlling pollution	which provides
Contaminated containers and packaging	:	Dispose in accordance with prevailing r to a recognized collector or contractor. the collector or contractor should be es Disposal should be in accordance with national, and local laws and regulations	The competence of tablished beforehand. applicable regional,
Local legislation Remarks	:	Disposal should be in accordance with national, and local laws and regulations	

### **14. TRANSPORT INFORMATION**

### Regulatory information when there are domestic regulations

Refer to section 15 for specific national regulation.

#### **International Regulations**

ADR Not regulated as a dangerous good

### IATA-DGR

Not regulated as a dangerous good

### IMDG-Code

Not regulated as a dangerous good

### Maritime transport in bulk according to IMO instruments

MARPOL Annex 1 rules apply for bulk shipments by sea.

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Special precautions for user		
Remarks	<ul> <li>Special Precautions: Refer to Section 7, Handling &amp; Storage, for special precautions which a user needs to be aware of or needs to comply with in connection with transport.</li> </ul>	

### **15. REGULATORY INFORMATION**

#### **Related Regulations**

#### **Fire Service Law**

Not considered as dangerous goods.

### **Chemical Substance Control Law**

Not applicable for Specified Chemical Substance, Monitoring Chemical Substance and Priority Assessment Chemical Substance.

#### Industrial Safety and Health Law

#### Harmful Substances Prohibited from Manufacture

Not applicable

#### Harmful Substances Required Permission for Manufacture

Not applicable

### **Substances Prevented From Impairment of Health**

Not applicable

Circular concerning Information on Chemicals having Mutagenicity - Annex 2: Information on Existing Chemicals having Mutagenicity

Not applicable

# Circular concerning Information on Chemicals having Mutagenicity - Annex 1: Information on Notified Substances having Mutagenicity

Not applicable

### Substances Subject to be Notified Names

Article 57-2 (Enforcement Order Table 9)

Chemical name	Number	Concentration (%)
Mineral oil	168	>=50 - <60
Ethanol	61	>=0.1 - <1
octadecyl 3-(3,5-di-tert-butyl-4-	R05-527	>=0.1 - <1
hydroxyphenyl)propionate		
Zinc oxide	188	>=0.1 - <1

### Substances Subject to be Indicated Names

Article 57 (Enforcement Order Article 18)

Chemical name	Number
Mineral oil	168
Ethanol	61

### Ordinance on Prevention of Hazards Due to Specified Chemical Substances Not applicable

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Ordinance on Preve	ntion of Org	anic Solvent Poisoning	
Not applicable	-	-	
Enforcement Order Substances)	of the Indus	trial Safety and Health Law - Att	ached table 1 (Dangero
Not applicable			
Poisonous and Dele	eterious Sub	stances Control Law	
Environment and Pr		ease Amounts of Specific Chem Improvements to the Manageme	
Not applicable			
Vessel Safety Law Not applicable			
Aviation Law			
Not applicable			
Marine Pollution and	d Sea Disast	er Prevention etc Law	
Not classified as mari	ine pollutant		
Water Pollution Con	trol Law		
Oil emissions regulati	ions (Law Art	. 2-5, Enforcement Order Art. 3-4)	1
Waste Disposal and	Public Clea	nsing Law	
Industrial waste			
The components of	this product	t are reported in the following in	ventories:
REACH	:	Not established.	
TSCA	:	Not established.	
ENCS	:	Not established.	
OTHER INFORMATIC	N		

H302 H314 H318 H319 H400 H410 <b>Full text of other abbre</b>	Harmful if swallowed. Causes severe skin burns and eye damage. Causes serious eye damage. Causes serious eye irritation. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.
Acute Tox.	Acute toxicity
Aquatic Acute	Short-term (acute) aquatic hazard
Aquatic Chronic	Long-term (chronic) aquatic hazard
Eye Dam.	Serious eye damage
Eye Irrit.	Eye irritation
Skin Corr.	Skin corrosion

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#### Abbreviations and Acronyms

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); 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; ERG - Emergency Response Guide; 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; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; 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; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG -Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

#### Further information

Training advice	:	Provide adequate information, instruction and training for operators.
Other information	:	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).

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.

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