Shell Alexia S4

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1. PRODUCT AND COMPANY IDE	NTIFICATION	
Product name	: Shell Alexia S4	
Product code	: 001E4699	
Manufacturer or supplier's d	etails	
Supplier	 Shell Eastern Petroleum (Pte) Ltd (196000089G) The Metropolis Tower 1, 9 North Buona Vista Drive, #07-01 Singapore 138588 Singapore 	
Telephone	: (+65) 62632975	
Telefax	: (+65) 62632049	
Emergency telephone number	: +65 6263 2975	
Email Contact for Safety Data Sheet	: If you have any enquiries about the oplease email lubricantSDS@shell.co	
Pacammandad usa of the ch	omical and rostrictions on uso	

Recommended use of the chemical and restrictions on use

: Engine oil.

Recommended use

2. HAZARDS IDENTIFICATION

GHS Classification

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

GHS label elements	
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. Response: No precautionary phrases. Storage: No precautionary phrases.

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	Disposal: No precautionary phrases.	
Sensitising components	: Contains calcium sulphonate.May reaction.	v produce an allergic

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.

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.
- * contains one or more of the following CAS-numbers: 64742-53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-65-0, 68037-01-4, 72623-86-0, 72623-87-1, 8042-47-5, 848301-69-9.

Hazardous components			
Chemical name	CAS-No.	Classification	Concentration [%]
Calcium alkaryl sulphonate **	Not Assigned	Aquatic Chronic4; H413	1 - 5
Overbased sulphurised calcium phenate	68784-26-9	Aquatic Chronic4; H413	1 - 5
Calcium alkaryl sulphonate **	Not Assigned	Skin Sens.1B; H317 Aquatic Chronic4; H413	0.1 - 0.9
Interchangeable low viscosity base oil (<20,5 cSt @40°C) *	Not Assigned	Asp. Tox.1; H304	0 - 90

** polymer exempt.

For explanation of abbreviations see section 16.

4. FIRST-AID MEASURES

General advice	: Not expected to be a health hazard when used under normal conditions.
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.

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	If persistent irritation occurs, obtain medical attention.
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.
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.
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	 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.
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	

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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.
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.

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Container Advice	: Polyethylene containers should not	t be exposed to high
	temperatures because of possible	risk of distortion.

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	PEL (long term) (Mist)	5 mg/m3	SG OEL
Oil mist, mineral	Not Assigned	PEL (short term) (Mist)	10 mg/m3	SG OEL
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	Singapore. Workplace Safety and Health Act - First Schedule Permissible Exposure Limits of Toxic Substances
Oil mist, mineral	Not Assigned	(Mist)	10 mg/m3	Singapore. Workplace Safety and Health Act - First Schedule Permissible Exposure Limits of Toxic Substances
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

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contact the supplier. Further National Institute of Occupat http://www.cdc.gov/niosh/ Occupational Safety and Hea http://www.osha.gov/ Health and Safety Executive http://www.hse.gov.uk/ Institut für Arbeitsschutz Deu http://www.dguv.de/inhalt/ind	mmended exposure measurement methods are given below or national methods may be available. ional Safety and Health (NIOSH), USA: Manual of Analytical Methods alth Administration (OSHA), USA: Sampling and Analytical Methods (HSE), UK: Methods for the Determination of Hazardous Substances utschen Gesetzlichen Unfallversicherung (IFA), Germany dex.jsp
L'Institut National de Recher	che 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. 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 equipr	nent
Protective measures	
Personal protective equipme PPE suppliers.	ent (PPE) should meet recommended national standards. Check with
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

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	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)].
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 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 c	ontrols
General advice	: Take appropriate measures to fulfill the requirements of

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 plant before discharge to surface water. Local guidelines on emission limits for volatile substances

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Version 2.0		Revision Date 23.06.2017 must be observed for the discharge vapour.	Print Date 25.06.2017 of exhaust air containing
9. PHYSICAL AND CHEMICAL PR	۱O۶	PERTIES	
Appearance	:	Liquid at room temperature.	
Colour	:	amber	
Odour	:	Slight hydrocarbon	
Odour Threshold	:	Data not available	
рH	:	Not applicable	
pour point	:	<= -6 °C / 21 °FMethod: ASTM D97	7
Initial boiling point and boiling range	:	> 280 °C / 536 °Festimated value(s)
Flash point	:	>= 210 °C / 410 °F Method: ASTM D93 (PMCC)	
Evaporation rate	:	Data not available	
Flammability (solid, gas)	:	Data not available	
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	:	0.926 (15 °C / 59 °F)	
Density	:	926 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 s	similar products)
Auto-ignition temperature	:	> 320 °C / 608 °F	
Viscosity			
Viscosity, dynamic	:	Data not available	
Viscosity, kinematic	:	165 mm2/s (40.0 °C / 104.0 °F)	

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Version 2.0	Revision Date 23.06.2017 Method: Unspecified	Print Date 25.06.2017
Explosive properties	: Not classified	
Oxidizing properties	: Data not available	
Conductivity Decomposition temperature	This material is not expected to beData not available	e a static accumulator.

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.	

11. TOXICOLOGICAL INFORMATION

Basis for assess	iment :	: 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 li exposure	kely routes of :	: Skin and eye contact are the primary routes of exposure although exposure may occur following accidental ingestion.
Acute toxicity		
Product:		
Acute oral toxici	ty :	: 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 to:	xicity :	: LD50 Rabbit: > 5,000 mg/kg Remarks: Expected to be of low toxicity:

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Version 2.0Revision Date 23.06.2017Print Date 25.06.2017Skin 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.

Components:

Calcium alkaryl sulphonate **:

Remarks: May cause an allergic skin reaction in sensitive individuals.

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:

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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.

Remarks: Slightly irritating to respiratory system.

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).Test data for additive packages has also been used in the classification of this product. Based on available data, the classification criteria are not met.
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	:
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Remarks: Expected to be practica LL/EL/IL50 > 100 mg/I	ally non toxic:
: Remarks: Data not available	
: Remarks: Data not available	
: Remarks: Data not available	
: Remarks: Expected to be not reac constituents are expected to be in contains components that may pe	herently biodegradable, but
: Remarks: Contains components v bioaccumulate.	with the potential to
: Pow: > 6Remarks: (based on info	rmation on similar products)
 Remarks: Liquid under most envir enters soil, it will adsorb to soil pa mobile. Remarks: Floats on water. 	
 Product is a mixture of non-volatil expected to be released to air in a Not expected to have ozone deple photochemical ozone creation por potential. Poorly soluble mixture., May caus organisms. Mineral oil is not expected to caus 	any significant quantities., etion potential, tential or global warming se physical fouling of aquatic
	 Remarks: Expected to be practica LL/EL/IL50 > 100 mg/l Remarks: Data not available Remarks: Data not available Remarks: Data not available Remarks: Data not available Remarks: Contains components that may perform the provided of the

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

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	determine the proper waste classification and disposal methods in compliance with applicable regulations.	
	Do not dispose into the environment, in courses	drains or in water
	Waste product should not be allowed to ground water, or be disposed of into the Waste, spills or used product is danger	e environment.
Contaminated packaging :	Dispose in accordance with prevailing r to a recognized collector or contractor. the collector or contractor should be est 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 a national, and local laws and regulations	

14. TRANSPORT INFORMATION

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

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Pollution category Ship type	: Not applicable : Not applicable
Product name	: Not applicable
Special precautions	: Not applicable
! . !	

Special precautions for user

Remarks	: Special Precautions: Refer to Chapter 7, Handling & Storage, for special precautions which a user needs to be aware of or needs to comply with in connection with transport.
Additional Information	: MARPOL Annex 1 rules apply for bulk shipments by sea.

15. REGULATORY INFORMATION

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

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Workplace Safety and Health Act & Workplace Safety and Health (General Provision) Regulations	This product is not subject to the requirements in the Act/Regulations.
Fire Safety Act and Fire Safety (Petroleum & Flammable Materials) Regulations	This product is not subject to the requirements in the Act/Regulations.
Maritime and Port Authority of Singapore (Dangerous Goods, Petroleum and Explosives) Regulations	This product is not subject to the requirements in the Act/Regulations.
Environmental Protection and Management Act and Environmental Protection and Management (Hazardous Substances) Regulations	This product is not subject to control under this Act/ Regulation.

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

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

16. OTHER INFORMATION

Full text of H-Statements

H304	May be fatal if swallowed and enters airways.		
H317	May cause an allergic skin reaction.		
H413	May cause long lasting harmful effects to aquatic life.		
Full text of other abbreviations			

Aquatic Chronic	Chronic aquatic toxicity
Asp. Tox.	Aspiration hazard
Skin Sens.	Skin sensitisation

AICS - Australian Inventory of Chemical Substances; 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; CPR - Controlled Products Regulations; 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

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	lational Toxicology Program; NZIoC - New Zealand Inv	
	for Economic Co-operation and Development; OPPTS	
and Pollution	Prevention; PBT - Persistent, Bioaccumulative and	Toxic substance; PICCS -
Philippines Inv	entory of Chemicals and Chemical Substances; (Q)S/	AR - (Quantitative) Structure
Activity Relatio	nship; REACH - Regulation (EC) No 1907/2006 of the	European Parliament and of
the Council co	ncerning the Registration, Evaluation, Authorisation a	nd Restriction of Chemicals;
SADT - Self-A	ccelerating Decomposition Temperature; SDS - Safety	/ Data Sheet; TCSI - Taiwan
Chemical Sub	stance Inventory; TDG - Transportation of Danger	ous Goods; TSCA - Toxic
Substances C	ontrol Act (United States); UN - United Nations;	UNRTDG - United Nations
Recommendat	ions on the Transport of Dangerous Goods; vPvB	- Very Persistent and Very
Bioaccumulativ	e; WHMIS - Workplace Hazardous Materials Information	on System
Further inform	nation	

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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