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SECTION 1. IDENTIFICATION		
Product name	: Shell Gadus S3 V220C 1	
Product code	: 001D8424	
Manufacturer or supplier	s details	
Manufacturer/Supplier	: Shell Oil Products US P.O. Box 4427 Houston TX 77210-4427 USA	
SDS Request Customer Service	: (+1) 877-276-7285 :	
Emergency telephone nu	mber	
Spill Information Health Information	: 877-504-9351 : 877-242-7400	
Recommended use of the Recommended use	e chemical and restrictions on use : Automotive and industrial grease).

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Chronic aquatic toxicity	: Category 3
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: H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	 Prevention: P273 Avoid release to the environment. Response: No precautionary phrases. Storage: No precautionary phrases. Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification

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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.

The classification of this material is based on OSHA HCS 2012 criteria.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : A lubricating grease containing highly-refined mineral oils and additives. The highly refined mineral oil contains <3% (w/w) DMSO-extract, according to IP346.

Chemical Name	Synonyms	CAS-No.	Concentration (%)
Trimethyldihydroquinoline, homopolymer	1,2-Dihydro-2,2,4- trimethylquinoline, oligomers	26780-96-1	1 - 3
Alkyl thiadiazole		91648-65-6	1 - 3
Zinc dialkyl dithiophos- phate	Phosphorodithioic acid, O,O-di-C1-14- alkyl esters, zinc salts	68649-42-3	1 - 2.4
Zinc naphthenate		12001-85-3	0.1 - 0.9

Hazardous components

SECTION 4. FIRST-AID MEASURES

General advice	Not expected to be a health hazard when used under no conditions.	rmal
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 ter and follow by washing with soap if available. If persistent irritation occurs, obtain medical attention.	ı wa-
	When using high pressure equipment, injection of produc under the skin can occur. If high pressure injuries occur, casualty should be sent immediately to a hospital. Do no for symptoms to develop. Obtain medical attention even in the absence of apparen wounds.	the t wait
In case of eye contact	Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical attention.	
If swallowed	In general no treatment is necessary unless large quantitare swallowed, however, get medical advice.	ties

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Most important symptoms and effects, both acute and delayed	: Oil acne/folliculitis signs and sy of black pustules and spots on Ingestion may result in nausea, Local necrosis is evidenced by tissue damage a few hours follo	the skin of exposed areas. vomiting and/or diarrhoea. delayed onset of pain and
Protection of first-aiders	: When administering first aid, er appropriate personal protective incident, injury and surrounding	equipment according to the
Immediate medical attention, special treatment	: Treat symptomatically.	
	High pressure injection injuries vention an d possibly steroid th age and loss of function. Because entry wounds are sma riousness of the underlying dan determine the extent of involver anaesthetics or hot soaks shou can contribute to swelling, vasc surgical decompression, debrid eign material should be perform ics, and wide exploration is ess	erapy, to minimise tissue dam- all and do not reflect the se- nage, surgical exploration to ment may be necessary. Local Id be avoided because they ospasm and ischaemia. Prompt lement and evacuation of for- ned under general anaesthet-

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Foam, water spray or fog. Dry chemical powder, carbon dio- xide, sand or earth may be used for small fires only.
Unsuitable extinguishing media	:	Do not use water in a jet.
Specific hazards during fire- fighting	:	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 me- thods	:	Use extinguishing measures that are appropriate to local cir- cumstances 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).

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec-	:	
tive equipment and emer-		

Avoid contact with skin and eyes.

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gency procedures		
Environmental precautions	: Use appropriate containment to nation. Prevent from spreading rivers by using sand, earth, or o	or entering drains, ditches or
Methods and materials for containment and cleaning up	: Shovel into a suitable clearly ma reclamation in accordance with	•
Additional advice	: For guidance on selection of pe see Chapter 8 of this Safety Dat For guidance on disposal of spil this Safety Data Sheet.	ta Sheet.

SECTION 7. HANDLING AND STORAGE

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 as- sessment of local circumstances to help determine appropri- ate controls for safe handling, storage and disposal of this material.
Precautions for 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.
Avoidance of contact	:	Strong oxidising agents.
Storage		
Other data	:	Keep container tightly closed and in a cool, well-ventilated place. Use properly labeled and closable containers.
		Store at ambient temperature.
Packaging material	:	Suitable material: For containers or container linings, use mild steel or high density polyethylene. Unsuitable material: PVC.
Container Advice	:	Polyethylene containers should not be exposed to high tem- peratures because of possible risk of distortion.

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components with workplace control parameters

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Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Oil mist, mineral	Not Assigned	TWA ((inhal- able frac- tion))	5 mg/m3	US. ACGIH Threshold Limit Values
		(Mist)	5 mg/m3	OSHA_TRA NS

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

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.

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	Practice good housekeeping.	
	Due to the product's semi-solid mists and dusts is unlikely to oc	
Personal protective equipme		aarily required under permal
Respiratory protection	 No respiratory protection is orditions of use. In accordance with good industritions should be taken to avoid be If engineering controls do not mattions to a level which is adequate select respiratory protection equicific conditions of use and meeting Check with respiratory protective Where air-filtering respirators are priate combination of mask and Select a filter suitable for the contant and vapours [Type A/Type P bot] 	ial hygiene practices, precau- reathing of material. aintain airborne concentra- te to protect worker health, hipment suitable for the spe- ing relevant legislation. e equipment suppliers. e suitable, select an appro- filter. mbination of organic gases
Hand protection		
Remarks	: Where hand contact with the pro- gloves approved to relevant star US: F739) made from the follow suitable chemical protection. PV gloves Suitability and durability usage, e.g. frequency and durat sistance of glove material, dexter glove suppliers. Contaminated g Personal hygiene is a key eleme Gloves must only be worn on cle gloves, hands should be washed cation of a non-perfumed moistu For continuous contact we recon through time of more than 240 m 480 minutes where suitable glove short-term/splash protection we recognize that suitable gloves of may not be available and in this time maybe acceptable so long and replacement regimes are for a good predictor of glove resistar dependent on the exact compose Glove thickness should be typic depending on the glove make an	hdards (e.g. Europe: EN374, ing materials may provide 'C, neoprene or nitrile rubber of a glove is dependent on tion of contact, chemical re- erity. Always seek advice from gloves should be replaced. ent of effective hand care. ean hands. After using d and dried thoroughly. Appli- urizer is recommended. mmend gloves with break- ninutes with preference for > ves can be identified. For recommend the same, but ffering this level of protection case a lower breakthrough as appropriate maintenance illowed. Glove thickness is not ance to a chemical as it is sition of the glove material. ally greater than 0.35 mm
Eye protection	: If material is handled such that i protective eyewear is recommer	
Skin and body protection	: Skin protection is not ordinarily i work clothes. It is good practice to wear chem	
Protective measures	: Personal protective equipment (-

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mended national standards. Check with PPE suppliers.

Environmental exposure controls

 General advice Take appropriate measures to fulfill the requirements of relevant environmental protection legislation. Avoid contaminat of the environment by following advice given in Chapter 6. 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 must be observed for the discharge of exhaust air containin vapour. 	onment by following advice given in Chapter 6. If prevent undissolved material from being dis- waste water. Waste water should be treated in a r industrial waste water treatment plant before o surface water. lines on emission limits for volatile substances
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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Semi-solid at ambient temperature.
Colour	:	red
Odour	:	Slight hydrocarbon
Odour Threshold	:	Data not available
рН	:	Not applicable
Drop point	:	240 °C / 464 °FMethod: IP 396
Initial boiling point and boiling range	:	Data not available
Flash point	:	>= 250 °C / >= 482 °F Method: ASTM D92
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	:	0.900 (15 °C / 59 °F)
Density	:	900 kg/m3 (15.0 °C / 59.0 °F) Method: Unspecified

Solubility(ies)

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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	: Not applicable	
Conductivity	: This material is not expected to	be a static accumulator.
Decomposition temperature	: Data not available	

SECTION 10. STABILITY AND REACTIVITY

Chemical stability	: Stable.
Possibility of hazardous reac- tions	: 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.

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.

Acute 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 unde normal conditions of use.	r

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Acute dermal toxicity	: LD50 (Rabbit): > 5.000 mg/kg	

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.

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).

IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

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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 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.

SECTION 12. ECOLOGICAL INFORMATION

Basis for assessment	: Ecotoxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the ecotoxicology of similar products. Unless indicated otherwise, the data presented is representa- tive of the product as a whole, rather than for individual com- ponent(s).(LL/EL/IL50 expressed as the nominal amount of product required to prepare aqueous test extract).
Ecotoxicity	
Product:	
Toxicity to fish (Acute toxic-	:
ity)	Remarks: Expected to be harmful: LL/EL/IL50 10-100 mg/l

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Toxicity to daphnia and other aquatic invertebrates (Acute toxicity)	:	Remarks: Expected to be harmful: LL/EL/IL50 10-100 mg/l	
Toxicity to algae (Acute toxic- ity)	:	Remarks: Expected to be harmful: LL/EL/IL50 10-100 mg/l	
Toxicity to fish (Chronic toxic- ity)	:	Remarks: Data not available	
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	Remarks: Data not available	
Toxicity to bacteria (Acute toxicity)	:	Remarks: Data not available	
<u>Components:</u> Zinc naphthenate: M-Factor (Acute aquatic tox- icity)	:	1	
Persistence and degradabilit	y		
Product:			
Biodegradability	:	Remarks: Expected to be not readily Major constituents are expected to b ble, but contains components that m ment.	e inherently biodegrad
Bioaccumulative potential			
Product:			
Bioaccumulation	:	Remarks: Contains components with cumulate.	n the potential to bioac
Mobility in soil			
Product:			
Mobility	:	Remarks: Semi-solid under most en If it enters soil, it will adsorb to soil p mobile.	
		Remarks: Floats on water.	
Other adverse effects no data available			
Product:			
Additional ecological informa-	:	Product is a mixture of non-volatile of expected to be released to air in any Not expected to have ozone depletion	significant quantities.

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	cal ozone creation potential or glo	cal ozone creation potential or global warming potential.	
	Poorly soluble mixture. May cause physical fouling of aquatic organisms.		
	Mineral oil is not expected to caus aquatic organisms at concentration		

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

US Department of Transportation Classification (49 CFR Parts 171-180)

Not regulated as a dangerous good

International Regulation

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	: Not applicable
Ship type	: Not applicable
Product name	: Not applicable
Special precautions	: Not applicable

Special precautions for user

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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	or bulk shipments by sea.

SECTION 15. REGULATORY INFORMATION

OSHA Hazards : No OSHA Hazards

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ., Shell classifies this material as an "oil" under the CERCLA Petroleum Exclusion, therefore releases to the environment are not reportable under CERCLA.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards	:	No SARA Hazards		
SARA 302	:	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.		
SARA 313	:	The following components are subject to reporting levels es- tablished by SARA Title III, Section 313:		
		Zinc dialkyl dithiophos- phate	68649-42-3	1.6 %

Clean Water Act

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

Pennsylvania	Right To Know Distillates (petro heavy paraffinic	leum), solvent-dewaxed	64742-65-0
New Jersey Ri	ight To Know		
	Zinc dialkyl dithio	ophosphate	68649-42-3
California Pro	p 65	•	ain any chemicals known to State er, birth defects, or any other re-
The components of this product are reported in the following inventories:			
EINECS	:	All components listed or po	lymer exempt.
TSCA	:	All components listed.	
DSL	:	All components listed.	

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SECTION 16. OTHER INFORMATION

Further information

NFPA Rating (Health, Fire, Reac- 0, 1, 0 tivity)

Due to the conversion of this product to GHS classification and labelling, there has been a significant change to the nature of the information presented in chapter 2. A vertical bar (|) in the left margin indicates an amendment from the previous version. Abbreviations and Acronyms : The standard abbreviations and acronyms used in this doe

The standard abbreviations and acronyms used in this document can be looked up in reference literature (e.g. scientific dictionaries) and/or websites.

ACGIH = American Conference of Governmental Industrial **Hygienists** ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road AICS = Australian Inventory of Chemical Substances ASTM = American Society for Testing and Materials **BEL = Biological exposure limits** BTEX = Benzene, Toluene, Ethylbenzene, Xylenes CAS = Chemical Abstracts Service CEFIC = European Chemical Industry Council CLP = Classification Packaging and Labelling COC = Cleveland Open-Cup DIN = Deutsches Institut fur Normung DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level DSL = Canada Domestic Substance List EC = European Commission EC50 = Effective Concentration fifty ECETOC = European Center on Ecotoxicology and Toxicology Of Chemicals ECHA = European Chemicals Agency EINECS = The European Inventory of Existing Commercial **Chemical Substances** EL50 = Effective Loading fifty ENCS = Japanese Existing and New Chemical Substances Inventory EWC = European Waste Code GHS = Globally Harmonised System of Classification and Labelling of Chemicals IARC = International Agency for Research on Cancer IATA = International Air Transport Association IC50 = Inhibitory Concentration fifty IL50 = Inhibitory Level fifty IMDG = International Maritime Dangerous Goods INV = Chinese Chemicals Inventory IP346 = Institute of Petroleum test method N° 346 for the determination of polycyclic aromatics DMSO-extractables KECI = Korea Existing Chemicals Inventory LC50 = Lethal Concentration fifty LD50 = Lethal Dose fifty per cent. LL/EL/IL = Lethal Loading/Effective Loading/Inhibitory loading

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	LL50 = Lethal Loading fifty	
	MARPOL = International Conver	ntion for the Prevention of
	Pollution From Ships	
	NOEC/NOEL = No Observed Ef served Effect Level	fect Concentration / No Ob-
	OE_HPV = Occupational Exposure - High Production PBT = Persistent, Bioaccumulative and Toxic	
	PICCS = Philippine Inventory of Substances	
	PNEC = Predicted No Effect Co	ncentration
	REACH = Registration Evaluation And Authorisation Chemicals RID = Regulations Relating to International Carriag gerous Goods by Rail SKIN_DES = Skin Designation	
	STEL = Short term exposure lim	it
	TRA = Targeted Risk Assessme	nt
	TSCA = US Toxic Substances Control Act	
	TWA = Time-Weighted Average	
	vPvB = very Persistent and very	Bioaccumulative
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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.