AeroShell Grease 64

Version 1.1	Revision Date 2024.08.01	Print Date 2024.11.04
1. PRODUCT AND COMPANY IDE	TIFICATION	
Chemical product name	AeroShell Grease 64	
Product code	: 001F6601	
Manufacturer or supplier's de Supplier's company name, address and phone number	tails Shell Lubricants Japan K.K. Pacific Century Place Marunouchi 12 1-11-1, Marunouchi Chiyoda-ku Tokyo 100-6212 Japan	F
Telephone Telefax	: (+81) 03-3218-1780 : (+81) 03-3218-1781	
Emergency telephone number	 [Important notice for customer suppolif you need support for product, pleas service centre. Lub Customer Service Centre (Lub C Tel. 0120-064-315 / Fax. 0120-264-3 E-mail. Inquiries-Lubes-JP@shell.com (Available for Japanese office hours) 	se contact our customer CSC) 15 (JP Toll free) n
Contact for Safety Data Sheet	: If you have any enquiries about the please email lubricantSDS@shell.co	
Recommended use of the che	mical and restrictions on use	
Recommended use	: Synthetic grease for aircraft, containin disulphide.	ng molybdenum
Restrictions on use	This product must be used, handled, accordance with the requirements of manufacturer's manuals, bulletins and This substance may not be used for a recommended without expert advice	the equipment d other documentation.

2. HAZARDS IDENTIFICATION

GHS classification	of chemical product
Skin sensitisation	: Category 1
Eye irritation	: Category 2A

GHS label elements

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Hazard pictograms		
Signal word	: Warning	
Hazard statements	 PHYSICAL HAZARDS: Not classified as a physical haza HEALTH HAZARDS: H317 May cause an allergic skin H319 Causes serious eye irritation ENVIRONMENTAL HAZARDS: Not classified as an environment 	n reaction. on.
Precautionary statements	: Prevention: P280 Wear protective gloves/ proprotection/ face protection.	otective clothing/ eye
	Response: P302 + P352 IF ON SKIN: Wash P333 + P313 If skin irritation or r advice/ attention. P305 + P351 + P338 IF IN EYES for several minutes. Remove cor easy to do. Continue rinsing. P337 + P313 If eye irritation pers attention.	ash occurs: Get medical S: Rinse cautiously with water ntact lenses, if present and
	Storage: No precautionary phrases.	
	Disposal: P501 Dispose of contents/ conta disposal plant.	iner to an approved waste

Hazardous components which must be listed on the label: Contains alkyl thiadiazole. Contains Bismuth Naphthenate. Contains dialkyl sulphide.

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.High-pressure injection under the skin may cause serious damage including local necros is.Not classified as flammable but will burn.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

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Chemical nature	: A lubricating grease containing poly and additives.	olefins, synthetic esters
	 * contains one or more of the follow 53-6, 64742-54-7, 64742-55-8, 647 68037-01-4, 72623-86-0, 72623-87- 9, 68649-12-7, 151006-60-9, 1631- 64741-89-5. 	42-56-9, 64742-65-0, -1, 8042-47-5, 848301-69-

Hazardous components

Substance name	CAS-No.	Classification	Concentration (% w/w)
Interchangeable low viscosity base oil (<20,5 cSt @40°C) *	Not Assigned	Asp. Tox.1; H304	0 - 90

Polyolefin	68649-11-6	Asp. Tox.1; H304 Acute Tox.4; H332	1 - 5
Highly refined mineral oil	8012-95-1	Aquatic Chronic4; H413	1 - 3
Bismuth Naphthenate	85736-59-0	Skin Sens.1; H317 Eye Irrit.2A; H319 Aquatic Chronic3; H412	1.5 - 3
Lithium complex thickener	12007-60-2	Acute Tox.4; H302 Eye Dam.1; H318 Repr.2; H361d	1 - 2.9
Alkaryl amine	68411-46-1	Repr.2; H361f	0.1 - 0.99
Alkyl thiadiazole	13539-13-4	Skin Irrit.2; H315 Skin Sens.1A; H317 Acute Tox.4; H332 Aquatic Chronic4; H413	0.1 - 0.9
Calcium complex thickener	13701-64-9	Repr.2; H361d	0.1 - 0.9
Dialkyl sulphide	822-27-5	Skin Irrit.2; H315 Skin Sens.1A; H317 Acute Tox.4; H332 Aquatic Chronic4; H413	0.1 - 0.9
Naphthenic acid	1338-24-5	Skin Irrit.2; H315 Skin Sens.1;	0.1 - 0.9

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	H317	
	Eye Irrit.2; H319	

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	 Immediately flush eye(s) with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Transport to the nearest medical facility for additional treatment.
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	: Eye irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blurred vision. 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.
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

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		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	:	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, protective equipment and emergency procedures	:	Avoid contact with skin and eyes.
Environmental precautions	:	Use appropriate containment to prevent uncontrolled release. 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 marked container for disposal or reclamation in accordance with local regulations.
Additional advice	:	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.

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7. HANDLING AND STORAGE		
Handling		
Technical measures	: Use local exhaust ventilation if vapours, mists or aerosols. Use the information in this data assessment of local circumstan appropriate controls for safe hat this material.	sheet as input to a risk
Advice on safe handling	: Avoid prolonged or repeated co Avoid inhaling vapour and/or m When handling product in drum worn and proper handling equip Properly dispose of any contam materials in order to prevent fire	ists. is, safety footwear should be oment should be used. ninated rags or cleaning
Facial protective equipment	 Wear goggles for use against li face shield. Wear full face shield if splashes If a local risk assessment deem goggles may not be required ar adequate eye protection. 	s are likely to occur. Is it so then chemical splash
Describe contact avoidance, etc	: Strong oxidising agents.	
Storage		
Other data	: Keep container tightly closed ar place. Use properly labeled and closa	
	Store at ambient temperature.	
Packaging material	: Suitable material: For container steel or high density polyethyler Unsuitable material: PVC.	U
Container Advice	: Polyethylene containers should temperatures because of possil	

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

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

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controls. For some substances Validated exposure measureme samples analysed by an accred	confirm compliance with an OEL and biological monitoring may also be ap ent methods should be applied by a c dited laboratory. mended exposure measurement meth	propriate. competent person and
	ational methods may be available.	
National Institute of Occupatior http://www.cdc.gov/niosh/	nal Safety and Health (NIOSH), USA:	Manual of Analytical Methods
Occupational Safety and Health http://www.osha.gov/	h Administration (OSHA), USA: Samp	ling and Analytical Methods
Health and Safety Executive (H http://www.hse.gov.uk/	ISE), UK: Methods for the Determinat	ion of Hazardous Substances
Institut für Arbeitsschutz Deutschutz http://www.dguv.de/inhalt/index	chen Gesetzlichen Unfallversicherung .jsp	(IFA), Germany
L'Institut National de Recherche	e et de Securité, (INRS), France http:	//www.inrs.fr/accueil
労働者の健康障害を防止する† (mhlw.go.jp)	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
Engineering measures	: The level of protection and types vary depending upon potential ex controls based on a risk assessm Appropriate measures include: Adequate ventilation to control air	posure conditions. Select ent of local circumstances.
	Where material is heated, sprayed greater potential for airborne cond	
	General Information: Define procedures for safe handlin	ng and maintenance of
	controls. Educate and train workers in the measures relevant to normal activ product.	
	Ensure appropriate selection, test equipment used to control exposu equipment, local exhaust ventilation	ure, e.g. personal protective
	Drain down system prior to equipr maintenance.	
	Retain drain downs in sealed stor	age pending disposal or
	subsequent recycle. Always observe good personal hy washing hands after handling the drinking, and/or smoking. Routine protective equipment to remove o contaminated clothing and footwe Practice good housekeeping.	material and before eating, ely wash work clothing and contaminants. Discard
	Due to the product's semi-solid co	

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sion 1.1	Revision Date 2024.08.01 mists and dusts is unlikely to occu	Print Date 2024.11.04 ur.
Personal protective equipme	ent	
Protective measures		
Personal protective equipment PPE suppliers.	(PPE) should meet recommended na	tional standards. Check with
Respiratory protection	 No respiratory protection is ordinal conditions of use. In accordance with good industrial precautions should be taken to aw If engineering controls do not main concentrations to a level which is health, select respiratory protection specific conditions of use and mean Check with respiratory protective of Where air-filtering respirators are appropriate combination of mask a Select a filter suitable for the command vapours and particles [Type A (149°F)]. 	I hygiene practices, oid breathing of material. ntain airborne adequate to protect worker on equipment suitable for the eting relevant legislation. equipment suppliers. suitable, select an and filter. bination of organic gases
Hand protection		
Remarks	: Where hand contact with the prod gloves approved to relevant stand US: F739) made from the following suitable chemical protection. PVC gloves Suitability and durability of usage, e.g. frequency and duratio resistance of glove material, dexter from glove suppliers. Contaminate replaced. Personal hygiene is a ke care. Gloves must only be worn o gloves, hands should be washed a Application of a non-perfumed mod	lards (e.g. Europe: EN374, g materials may provide c, neoprene or nitrile rubber a glove is dependent on n of contact, chemical erity. Always seek advice ed gloves should be ey element of effective hand n clean hands. After using and dried thoroughly.
	For continuous contact we recommoder breakthrough time of more than 2- for > 480 minutes where suitable of short-term/splash protection we re- recognize that suitable gloves offer may not be available and in this c time maybe acceptable so long as and replacement regimes are follor a good predictor of glove resistant dependent on the exact compositi Glove thickness should be typicall depending on the glove make and	40 minutes with preference gloves can be identified. For ecommend the same but ring this level of protection ase a lower breakthrough s appropriate maintenance owed. Glove thickness is not ce to a chemical as it is on of the glove material. ly greater than 0.35 mm
Eye and face protection	: Wear goggles for use against liqui face shield. Wear full face shield if splashes a	-

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	If a local risk assessment deems in goggles may not be required and adequate eye protection.	•
Skin and body protection	: Wear chemical resistant gloves/ga risk of splashing, also wear an apr	
Thermal hazards	: Not applicable	
Environmental exposure con	trols	
General advice	: Take appropriate measures to fulfi relevant environmental protection contamination of the environment Section 6. If necessary, prevent u being discharged to waste water. treated in a municipal or industrial before discharge to surface water. Local guidelines on emission limits must be observed for the discharg vapour.	legislation. Avoid by following advice given in indissolved material from Waste water should be waste water treatment plant s for volatile substances

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	Semi-solid at room temperature.
Colour	:	dark grey
Odour	:	Slight hydrocarbon
Odour Threshold	:	Data not available
рН	:	Not applicable
Drop point	:	>= 220 °C / >= 428 °F Method: ASTM D2265
Melting / freezing point		Not applicable
Boiling point, initial boiling point and boiling range	:	Data not available
Flash point	:	215 °C / 419 °F Method: ASTM D93 (PMCC)
Evaporation rate	:	Data not available
Flammability		
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	Not classified as flammable but will burn.

Lower explosion limit and upper explosion limit / flammability limit

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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	
Relative density	: 0.870 (25 °C / 77 °F)	
Density	: 953 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	r products)
Auto-ignition point	: > 320 °C / 608 °F	
Decomposition temperature	: Data not available	
Viscosity		
Viscosity (Dynamic)	: Data not available	
Viscosity, kinematic	: Not applicable	
Particle characteristics Particle size	: Data not available	
Explosive properties	: Classification Code: Not classified	ed
Oxidizing properties	: Data not available	
Conductivity	: This material is not expected to	be a static accumulator

10. STABILITY AND REACTIVITY		
Reactivity	: The product does not pose any further reactivity addition to those listed in the following sub-parage	
Chemical stability	: Stable.	
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Possibility of hazardous reactions	: Re	acts with strong oxidising agents.	
Conditions to avoid	: Ex	tremes of temperature and direct sun	light.
Incompatible materials	: Sti	rong oxidising agents.	
Hazardous decomposition products	: No	decomposition if stored and applied	as directed.
11. TOXICOLOGICAL INFORMATI	ON		
Basis for assessment	the the	ormation given is based on data on the toxicology of similar products. Unless data presented is representative of toole, rather than for individual comport	s indicated otherwise, the product as a
Information on likely routes of exposure		in and eye contact are the primary ro hough exposure may occur following	
Acute toxicity			
Product:			
Acute oral toxicity	Re	50 rat: > 5,000 mg/kg marks: Low toxicity sed on available data, the classificati	on criteria are not met.
Acute inhalation toxicity		marks: Based on available data, the not met.	classification criteria
Acute dermal toxicity	Re	50 Rabbit: > 5,000 mg/kg marks: Low toxicity sed on available data, the classificati	on criteria are not met.
Components:			
Polyolefin:			
Acute inhalation toxicity	ma su	marks: Mortality observed is due to a aterial into the lungs, rather than intrin bstance. Acute toxicity caused by inh considered to be a highly unrealistic s	sic toxicity of the test alation of this material
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

Product:

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Remarks: Risk of serious damage to eyes.

Respiratory or skin sensitisation

Product:

Remarks: Skin sensitiser.

Components:

Dialkyl sulphide:

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

Naphthenic acid:

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

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
Polyolefin	No carcinogenicity classification.
Alkyl thiadiazole	No carcinogenicity classification.
Naphthenic acid	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

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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 :	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).
Ecotoxicity	
Product:	
Toxicity to fish (Acute : toxicity)	Remarks: LL/EL/IL50 > 100 mg/l Practically non toxic: Based on available data, the classification criteria are not met.
Toxicity to crustacean (Acute : toxicity)	Remarks: LL/EL/IL50 > 100 mg/l Practically non toxic: Based on available data, the classification criteria are not met.
Toxicity to algae/aquatic : plants (Acute toxicity)	Remarks: LL/EL/IL50 > 100 mg/I Practically non toxic: Based on available data, the classification criteria are not met.

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Toxicity to fish (Chronic toxicity)	: Remarks: Based on available data, the classification criteria are not met.	
Toxicity to crustacean (Chronic toxicity)	: Remarks: Based on available data, the classification criteria are not met.	
Toxicity to microorganisms (Acute toxicity)	: Remarks: Based on available data, the classification criteria are not met.	
Persistence and degradability		
Product:		
Biodegradability	: Remarks: Not readily biodegradable., Major constituents are inherently biodegradable, but contains components that may persist in the environment.	
Bioaccumulation		
Product:		
Bioaccumulation	: Remarks: Contains components with the potential to bioaccumulate.	
Partition coefficient: n- octanol/water	 log Pow: > 6Remarks: (based on information on similar products) 	
Mobility in soil		
Product:		
Mobility	 Remarks: Semi-solid under most environmental conditions., If it enters soil, it will adsorb to soil particles and will not be mobile. Remarks: Floats on water. 	
Other adverse effects		
no data available <u>Product:</u>		
Additional ecological information	 Does not have ozone depletion potential, photochemical ozone creation 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. 	
Hazardous to the ozone layer		
Not applicable		

13. DISPOSAL CONSIDERATIONS

Disposal methods

Chemicals (residual waste) : Recover or recycle if possible.

Version 1.1	Revision Date 2024.08.01Print DateIt is the responsibility of the waste generator to detetoxicity and physical properties of the material generdetermine the proper waste classification and disposemethods in compliance with applicable regulations.Do not dispose into the environment, in drains or incourses.	rated to sal
	Waste product should not be allowed to contaminate ground water, or be disposed of into the environmen Waste, spills or used product is dangerous waste. Waste arising from a spillage or tank cleaning shoul disposed of in accordance with prevailing regulations preferably to a recognised collector or contractor. Th competence of the collector or contractor should be established beforehand. Do not dispose of tank water bottoms by allowing the drain into the ground. This will result in soil and grou contamination.	t. d be s, ne iem to
	MARPOL - see International Convention for the Pre Pollution from Ships (MARPOL 73/78) which provide technical aspects at controlling pollutions from ships	es
Contaminated containers and packaging	Dispose in accordance with prevailing regulations, p to a recognized collector or contractor. The compet the collector or contractor should be established bef Disposal should be in accordance with applicable re national, and local laws and regulations.	ence of orehand.
Local legislation Remarks	Disposal should be in accordance with applicable renational, and local laws and regulations.	gional,

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	: 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.	

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 (%)
Molybdenum and its compounds	603	>=1 - <10
Mineral oil	168	>=1 - <10

Substances Subject to be Indicated Names

Article 57 (Enforcement Order Article 18)	
Chemical name	

Chemical name	Number
Molybdenum and its compounds	603
Mineral oil	168

Ordinance on Prevention of Hazards Due to Specified Chemical Substances

Not applicable

Ordinance on Prevention of Organic Solvent Poisoning

Not applicable

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	order of the Industrial Safe	ty and Health Law - Atta	ched table 1 (Dangerous					
Substances)								
Not applicable								
Poisonous and	Poisonous and Deleterious Substances Control Law							
Not applicable								
	ation, etc. of Release Amo nd Promotion of Improven	-						
Class I Designated Chemical Substances								
Chemical name	;	Number	Concentration (%					
Molybdenum c	ompounds / Molybdenum	453	3.1					
Vessel Safety I	_aw							
Not applicable								
Aviation Law								
Not applicable								
	on and Sea Disaster Preve	ntion etc Law						
Not classified as	Not classified as marine pollutant							
Water Pollution Control Law								
Oil emissions re	gulations (Law Art. 2-5, Enfo	prcement Order Art. 3-4)						
Waste Disposal	I and Public Cleansing La	w						
Industrial waste	-	-						
		and and the standard						
-	ts of this product are repo	-	entories:					
TSCA	: All compo	onents listed.						
ENCS : Notified with Restrictions.								
OTHER INFORM	ATION							
Full text of H-S	tatements							
H302	Harmful if swallowe	ed.						
H304	May be fatal if swa	May be fatal if swallowed and enters airways.						
H315		Causes skin irritation.						
H317	May cause an allergic skin reaction.							
H318	Causes serious ey							
H319 Causes serious eye irritation.								
H332	Harmful if inhaled.							
H361d		aging the unborn child.	(apply) of the tester)					
H361f		aging fertility. (Causing atr						
H412		life with long lasting effect	5.					

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

Acute Tox.	Acute toxicity
Aquatic Chronic	Long-term (chronic) aquatic hazard
Asp. Tox.	Aspiration hazard
Eye Dam.	Serious eye damage

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Eye Irrit.	Eye irritation
Repr.	Reproductive toxicity
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitisation

Abbreviations and Acronyms

AllC - 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).

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