Version 1.3	Revision Date 22.06.2016	Print Date 06.07.2016	
1. PRODUCT AND COMPANY IDI	NTIFICATION		
Product name	: Shell Naturelle Grease S5 V120P 2		
Product code	: 001D9724		
Manufacturer or supplier's c	Manufacturer or supplier's details		
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 please email lubricantSDS@shell.c		
Recommended use of the cl	emical and restrictions on use		

2. HAZARDS IDENTIFICATION

Recommended use

GHS Classification

Not a dangerous substance or mixture according to the Globally Harmonised System (GHS).

: Automotive and industrial grease.

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.

Version 1.3 Revision Date 22.06.2016 Print Date 06.07.2016 Disposal: No precautionary phrases. 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** Chemical nature : A lubricating grease containing synthetic esters and additives. Hazardous components **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. 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. : Flush eye with copious quantities of water. In case of eye contact 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 : Oil acne/folliculitis signs and symptoms may include formation and effects, both acute and of black pustules and spots on the skin of exposed areas. delayed 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

Version 1.3	Revision Date 22.06.2016 Print Date 06.07.2010
	appropriate personal protective equipment according to the incident, injury and surroundings.
Notes to physician	: Treat symptomatically.
	High pressure injection injuries require prompt surgical intervention an d 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.
. 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	: Avoid contact with skin and eyes.
emergency procedures	
Environmental precautions	: Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains,

Version 1.3	Revision Date 22.06.2016 Print Date 06.07.201	16
	ditches or rivers by using sand, earth, or other appropriate barriers.	
Methods and materials for containment and cleaning up	: Prevent from spreading or entering into drains, ditches or rivers by using sand, earth, or other appropriate barriers.	
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. 	of
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.	of
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.	
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 mile steel or high density polyethylene. Unsuitable material: PVC.	b
Container Advice	: Polyethylene containers should not be exposed to high temperatures because of possible risk of distortion.	

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components with workplace control parameters

Biological occupational exposure limits

No biological limit allocated.

Version 1.3

Revision Date 22.06.2016

Print Date 06.07.2016

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. Practice good housekeeping.

Personal protective equipment

Protective measures

Personal protective equipment (PPE) should meet recommended national standards. Check with

Safety Data Sheet

Shell Naturelle Grease S5 V120P 2

Version 1.3	Revision Date 22.06.2016	Print Date 06.07.2016
PPE suppliers.		
Respiratory protection	 No respiratory protection is ordin conditions of use. In accordance with good industri precautions should be taken to a If engineering controls do not ma concentrations to a level which is health, select respiratory protect specific conditions of use and ma Check with respiratory protective Where air-filtering respirators are appropriate combination of mask Select a filter suitable for the cor and vapours [Type A/Type P bo 	ial hygiene practices, avoid breathing of material. aintain airborne s adequate to protect worker ion equipment suitable for the eeting relevant legislation. e equipment suppliers. e suitable, select an c and filter. nbination of organic gases
Hand protection		
Remarks	 Where hand contact with the progloves approved to relevant start US: F739) made from the following suitable chemical protection. PV/gloves Suitability and durability of usage, e.g. frequency and durating resistance of glove material, dex from glove suppliers. Contaminad replaced. Personal hygiene is a care. Gloves must only be worn gloves, hands should be washed Application of a non-perfumed meter for > 480 minutes where suitable short-term/splash protection we recognize that suitable gloves of may not be available and in this time maybe acceptable so long a and replacement regimes are followed. 	adards (e.g. Europe: EN374, ing materials may provide C, neoprene or nitrile rubber of a glove is dependent on ion of contact, chemical tterity. Always seek advice ted gloves should be key element of effective hand on clean hands. After using d and dried thoroughly. hoisturizer is recommended. mmend gloves with 240 minutes with preference e gloves can be identified. For recommend the same, but fering this level of protection case a lower breakthrough as appropriate maintenance
	a good predictor of glove resista dependent on the exact compos Glove thickness should be typica depending on the glove make ar	nce to a chemical as it is ition of the glove material. ally greater than 0.35 mm nd model.
Eye protection	: If material is handled such that it protective eyewear is recommen	
Skin and body protection	 Skin protection is not ordinarily r work clothes. It is good practice to wear chemi 	
Thermal hazards	: Not applicable	

Environmental exposure controls

Version 1.3	Revision Date 22.06.2016	Print Date 06.07.2016
General advice	: Take appropriate measures to fulfil relevant environmental protection I contamination of the environment I Chapter 6. If necessary, prevent u being discharged to waste water. V treated in a municipal or industrial before discharge to surface water. Local guidelines on emission limits must be observed for the discharge vapour.	egislation. Avoid by following advice given in ndissolved material from Vaste water should be waste water treatment plant for volatile substances

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Semi-solid at ambient temperature.
Colour	:	brown
Odour	:	Slight hydrocarbon
Odour Threshold	:	Data not available
рН	:	Not applicable
Drop point	:	180 °C / 356 °FMethod: ASTM D566
Initial boiling point and boiling range	:	Data not available
Flash point	:	Method: ASTM D92 Not applicable
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)		
Water solubility	:	negligible
Solubility in other solvents	:	Data not available
Partition coefficient: n-	:	Pow: > 6(based on information on similar products)

Version 1.3 octanol/water	Revision Date 22.06.2016	Print Date 06.07.2016
Auto-ignition temperature	: > 320 °C / 608 °F	
Viscosity		
Viscosity, dynamic	: Data not available	
Viscosity, kinematic	: Not applicable	
Explosive properties	: Not classified	
Oxidizing properties	: Data not available	
Conductivity Decomposition temperature	This material is not expected to beData not available	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.	n
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 fo during normal storage.	rm

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:	

Version 1.3	Revision Date 22.06.2016	Print Date 06.07.2016
Acute inhalation toxicity	: Remarks: Not considered to be an normal conditions of use.	inhalation hazard under
Acute dermal toxicity	: LD50 Rabbit: > 5,000 mg/kg Remarks: Expected to be of low to	oxicity:

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.

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Reproductive toxicity

Product:

Remarks: Not expected to impair fertility., Not expected to be a developmental toxicant.

STOT - single exposure

Product:

Safety Data Sheet

Shell Naturelle Grease S5 V120P 2

Version 1.3Revision Date 22.06.2016Print Date 06.07.2016Remarks: 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.

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).
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	:

Version 1.3	Revision Date 22.06.2016	Print Date 06.07.2016
plants (Acute toxicity)	Remarks: Expected to be pra LL/EL/IL50 > 100 mg/l	ictically non toxic:
Toxicity to fish (Chronic toxicity)	: Remarks: Data not available	
Toxicity to crustacean (Chronic toxicity)	: Remarks: Data not available	
Toxicity to microorganisms (Acute toxicity)	: Remarks: Data not available	
Persistence and degradability		
Product:		
Biodegradability	: Remarks: Readily biodegrada	able.
Bioaccumulative potential		
Product:		
Bioaccumulation	: Remarks: Contains compone bioaccumulate.	nts with the potential to
Partition coefficient: n- octanol/water	: Pow: > 6Remarks: (based on	information on similar products)
Mobility in soil		
Product:		
Mobility	: Remarks: Semi-solid under m it enters soil, it will adsorb to a mobile. Remarks: Floats on water.	nost environmental conditions., If soil particles and will not be
Other adverse effects		
no data available Product:		
Additional ecological information	expected to be released to ai Not expected to have ozone of photochemical ozone creation potential.	

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.

Version 1.3	Revision Date 22.06.2016	Print Date 06.07.2016
	Do not dispose into the environment, in drains or in water courses	
	Waste product should not be allow ground water, or be disposed of in Waste, spills or used product is da	to the environment.
Contaminated packaging	: Dispose in accordance with prevai to a recognized collector or contra- the collector or contractor should b Disposal should be in accordance national, and local laws and regula	ctor. The competence of be established beforehand. with applicable regional,
Local legislation Remarks	: Disposal should be in accordance national, and local laws and regula	

14. TRANSPORT INFORMATION

International Regulation

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 Product name Special precautions	 Not applicable Not applicable Not applicable Not applicable 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

ersion 1.3	Revision Date	e 22.06.2016	Print Date 06.07.2016
Workplace Safety and Heal Safety and Health (General Regulations		This product is no in the Act/Regula	ot subject to the requirements ations.
Fire Safety Act and Fire Sa Flammable Materials) Regu		This product is no in the Act/Regula	ot subject to the requirements ations.
Maritime and Port Authority of Singapore (Dangerous Goods, Petroleum and Explosives) Regulations		This product is not in the Act/Regula	ot subject to the requirements ations.
Environmental Protection and Management Act and Environmental Protection and Management (Hazardous Substances) Regulations		This product is n Act/ Regulation.	not subject to control under this
Other international regula	tions		
The components of this product are reported in the following inventories: EINECS : All components listed or polymer exempt.			

16. OTHER INFORMATION

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Abbreviations and Acronyms	:	The standard abbreviations and acronyms used in this document can be looked up in reference literature (e.g. scientific dictionaries) and/or websites.
Further information		
Other information	:	A vertical bar () in the left margin indicates an amendment from the previous version.

: All components listed.

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.