According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Shell Gadus S2 Steel Spindle Grease

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SECTION 1. IDENTIFICATION

Product name : Shell Gadus S2 Steel Spindle Grease

Product code : 001I5990

Manufacturer or supplier's details

| Manufacturer/Supplier | : Shell Oil Products US PO Box 4427 Houston TX 77210-4427 USA |
|-----------------------|--|
| SDS Request | : (+1) 877-276-7285 |
| Customer Service | : |

Emergency telephone number

| Spill Information | : | 877-504-9351 |
|--------------------|---|--------------|
| Health Information | : | 877-242-7400 |

Recommended use of the chemical and restrictions on use

Recommended use : Automotive and industrial grease.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

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. |
| | Disposal: |

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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.

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

Under normal conditions of use or in a foreseeable emergency, this product does not meet the definition of a hazardous chemical when evaluated according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

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

Hazardous components

| Chemical name | Synonyms | CAS-No. | Concentration (% w/w) |
|----------------------------------|---|------------|-----------------------|
| Zinc dialkyldithio- phosphate | Phosphorodi- thioic acid, mixed O,O- bis(iso-Bu and pentyl) esters, zinc salts | 68457-79-4 | 1 - 2.49 |

SECTION 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 wa- ter and follow by washing with soap if available. If persistent irritation occurs, obtain medical attention. |
| | | When using high pressure equipment, injection of product under the skin can occur. If high pressure injuries occur, the casualty should be sent immediately to a hospital. Do not wait for symptoms to develop. Obtain medical attention even in the absence of apparent wounds. |
| In case of eye contact | : | Flush eye with copious quantities of water. Remove contact lenses, if present and easy to do. Continue rinsing. If persistent irritation occurs, obtain medical attention. |

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| I | f swalld | owed | : | | tment is necessary unless large quantities owever, get medical advice. |
| a | | portant symptoms ects, both acute and I | : | of black pustules a Ingestion may res Local necrosis is a | signs and symptoms may include formation and spots on the skin of exposed areas. ult in nausea, vomiting and/or diarrhoea. evidenced by delayed onset of pain and ew hours following injection. |
| F | Protecti | ion of first-aiders | : | | ng first aid, ensure that you are wearing the nal protective equipment according to the d surroundings. |
| r | medica | on of any immediate I attention and special ont needed | : | Treat symptomation | cally. |
| | | | | vention and possil age and loss of fu Because entry wo ousness of the un determine the external anaesthetics or ho can contribute to s surgical decompre- eign material should | ection injuries require prompt surgical inter- bly steroid therapy, to minimise tissue dam- nction. unds are small and do not reflect the seri- derlying damage, surgical exploration to ent of involvement may be necessary. Local of soaks should be avoided because they swelling, vasospasm and ischaemia. Prompt ession, debridement and evacuation of for- uld be performed under general anaesthet- oration is essential. |

SECTION 5. FIRE-FIGHTING MEASURES

| Suitable extinguishing media | : | Foam, water spray or fog. Dry chemical powder, carbon diox- ide, 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 meth- ods | : | 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 |

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relevant Standards (e.g. Europe: EN469).

SECTION 6. ACCIDENTAL RELEASE MEASURES

| Personal precautions, protec- tive equipment and emer- gency procedures | : | Avoid contact with skin and eyes. |
|---|---|---|
| Environmental precautions | : | Use appropriate containment to avoid environmental contami- nation. 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 | : | 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 Section 8 of this Safety Data Sheet. For guidance on disposal of spilled material see Section 13 of this Safety Data 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. |
|---|---|---|
| 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 mate- rials in order to prevent fires. |
| Avoidance of contact | : | Strong oxidising agents. |
| Further information on stor- age stability | : | 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. |

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SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components with workplace control parameters

| Components | CAS-No. | Value type (Form of exposure) | Control parame- ters / Permissible concentration | Basis |
|-------------------|--------------|-------------------------------------|--|----------|
| Oil mist, mineral | Not Assigned | TWA (Mist) | 5 mg/m3 | OSHA Z-1 |
| Oil mist, mineral | | TWA (Inhal- | 5 mg/m3 | ACGIH |
| | | able particu- | - | |
| | | late matter) | | |

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 mainte- |

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| | nance. 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 con- taminated clothing and footwear that cannot be cleaned. Practice good housekeeping. Due to the product's semi-solid consistency, generation of mists and dusts is unlikely to occur. |
|-------------------------------|--|
| Personal protective equipment | |
| 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 concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for the combination of organic gases and vapours and particles [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 break-through time of more than 240 minutes with preference for > 480 minutes where suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time maybe acceptable so long as appropriate maintenance and replacement regimes are followed. Glove thickness is not a good predictor of glove resistance to a chemical as it is dependent on the exact composition of the glove material. Glove thickness should be typically greater than 0.35 mm |

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| | | | | depending on the | glove make and model. |
| E | Eye pro | tection | : | | led such that it could be splashed into eyes, ar is recommended. |
| S | Skin an | d body protection | : | work clothes. | not ordinarily required beyond standard to wear chemical resistant gloves. |
| F | Protecti | ve measures | : | | re equipment (PPE) should meet recom- standards. Check with PPE suppliers. |
| Ţ | Therma | Il hazards | : | Not applicable | |
| E | Enviro | nmental exposure co | ntro | ls | |
| C | Genera | l advice | : | vant environmenta of the environment necessary, prever charged to waste municipal or indus discharge to surfa Local guidelines of | measures to fulfill the requirements of rele- al protection legislation. Avoid contamination at by following advice given in Section 6. If nt undissolved material from being dis- water. Waste water should be treated in a strial waste water treatment plant before ce water. on emission limits for volatile substances for the discharge of exhaust air containing |
| SECT | TION 9. | PHYSICAL AND CHE | EMIC | | 3 |
| ŀ | Appear | ance | : | Semi-solid at am | bient temperature. |
| (| Colour | | : | black | |
| (| Odour | | : | Slight hydrocarbo | n |
| (| Odour 7 | Fhreshold | : | Data not availabl | e |
| k | pН | | : | Not applicable | |
| [| Drop po | bint | : | 170 °C / 338 °F Method: IP 396 | |
| ſ | Melting | / freezing point | | Not applicable | |
| | Initial bo range | oiling point and boiling | : | Data not availabl | e |
| F | Flash p | oint | : | Method: ASTM D Not applicable | 92 (COC) |
| E | Evapora | ation rate | : | Data not availabl | e |
| F | Flamma | ability (solid, gas) | : | Data not availabl | e |

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| | | explosion limit / upper bility limit | : | Typical 10 %(V) | |
| | | explosion limit / Lower bility limit | : | Typical 1 %(V) | |
| | Vapour | pressure | : | < 0.5 Pa (20 °C / | 68 °F) |
| | | | | estimated value(s | 3) |
| | Relative | e vapour density | : | > 1 estimated value(s | 3) |
| | Relative | e density | : | 1.000 (15 °C / 59 | °F) |
| | Density | | : | 1,000 kg/m3 (15. Method: Unspeci | |
| | Solubili Wat | ty(ies) er solubility | : | negligible | |
| | Solu | bility in other solvents | : | Data not availabl | e |
| | Partition octanol | n coefficient: n- /water | : | | ation on similar products) |
| | Auto-ig | nition temperature | : | > 320 °C / 608 °F | : |
| | Decom | position temperature | : | Data not availabl | e |
| | Viscosi Visc | ty osity, dynamic | : | Data not availabl | e |
| | Visc | osity, kinematic | : | Not applicable | |
| | Explosi | ve properties | : | Not classified | |
| | Oxidizir | ng properties | : | Data not availabl | e |
| | Conduc | ctivity | : | This material is n | ot expected to be a static accumulator. |

SECTION 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 reac- tions | : | Reacts with strong oxidising agents. |
| Conditions to avoid | : | Extremes of temperature and direct sunlight. |

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|------------|----------------------------------|---|------|---|---|--|
| | Incomp | patible materials | : | Strong oxidising | agents. | |
| | Hazardous decomposition products | | : | : No decomposition if stored and applied as directed. | | |
| SEC | CTION 1 | 1. TOXICOLOGICAL | INFO | RMATION | | |
| | Basis f | or assessment | | the toxicology of s the data presente | is based on data on the components and similar products.Unless indicated otherwise, d is representative of the product as a n for individual component(s). | |
| | Skin ar | nation on likely routes and eye contact are the ntal ingestion. | | | sure although exposure may occur following | |
| | Acute | toxicity | | | | |
| | Produ | <u>ct:</u> | | | | |
| | Acute | oral toxicity | | LD50 (rat): > 5,00 Remarks: Low to Based on availab | | |
| | Acute i | inhalation toxicity | | Remarks: Based are not met. | on available data, the classification criteria | |

| LD50 (Rabbit): > 5,000 mg/kg Remarks: Low toxicity: Based on available data, the classification criteria are not met. |
|--|
| based on available data, the classification chiena are not met. |
| |

Skin corrosion/irritation

Product:

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

Serious eye damage/eye irritation

Product:

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

Components:

Zinc dialkyldithiophosphate:

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

Respiratory or skin sensitisation

Product:

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

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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.

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. |
|------|---|
| OSHA | No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens. |
| 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. |
| | |

| IARC | |
|---------|---|
| Asphalt | Occupational exposures to hard bitumens and their emissions during mastic asphalt work are 'possibly carcinogenic to hu- mans' (IARC Group 2B). Occupational exposures to straight-run bitumens and their fume condensates during road paving are 'possibly carcinogenic to humans' (IARC Group 2B). |

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.

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STOT - repeated exposure

Product:

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.

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 | | |
| <u>Product:</u> Toxicity to fish (Acute toxici- ty) | : | Remarks: LL/EL/IL50 > 100 mg/l Practically non toxic: Based on available data, the classification criteria are not met. |
| Toxicity to daphnia and other aquatic invertebrates (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 (Acute tox- icity) | : | Remarks: LL/EL/IL50 > 100 mg/l Practically non toxic: Based on available data, the classification criteria are not met. |

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| Toxic icity) | sity to fish (Chronic tox- | : | Remarks: Data | not available |
| | city to daphnia and other tic invertebrates (Chron- ticity) | : | Remarks: Data | not available |
| | city to microorganisms te toxicity) | : | Remarks: Data not available | |
| Pers | istence and degradabil | ity | | |
| <u>Prod</u> Biode | l <mark>uct:</mark> egradability | : | Major constituer | eadily biodegradable. hts are inherently biodegradable, but contains t may persist in the environment. |
| Bioa | ccumulative potential | | | |
| <u>Prod</u> | uct: | | | |
| Bioad | ccumulation | : | Remarks: Conta cumulate. | ins components with the potential to bioac- |
| Mobi | ility in soil | | | |
| <u>Prod</u> | uct: | | | |
| Mobil | lity | : | | solid under most environmental conditions. will adsorb to soil particles and will not be |
| | | | Remarks: Floats | s on water. |
| Othe | r adverse effects | | | |
| Prod | uct: | | | |
| Addit matic | ional ecological infor- on | : | ozone creation p Product is a mix | bzone depletion potential, photochemical potential or global warming potential. ture of non-volatile components, which will not ir in any significant quantities under normal e. |
| | | | Poorly soluble n Causes physica | nixture. I fouling of aquatic organisms. |
| | | | | not cause chronic toxicity to aquatic organ- rations less than 1 mg/l. |
| | | | | |

SECTION 13. DISPOSAL CONSIDERATIONS

| Disposal methods | |
|-----------------------|---|
| Masta fusua unaliduan | Descussion and second a life second la life |

| Waste from re | esidues |
|---------------|---------|
|---------------|---------|

: Recover or recycle if possible.

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| | | | toxicity and physi determine the pro ods in compliance | bility of the waste generator to determine the cal properties of the material generated to oper waste classification and disposal meth- e with applicable regulations. to the environment, in drains or in water |
| | | | ground water, or | ould not be allowed to contaminate soil or be disposed of into the environment. sed product is dangerous waste. |
| Conta | aminated packaging | : | to a recognized c the collector or co Disposal should b | dance with prevailing regulations, preferably ollector or contractor. The competence of ontractor should be established beforehand. be in accordance with applicable regional, al laws and regulations. |
| Loca Rema | I legislation arks | : | • | be in accordance with applicable regional, Il 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 Regulations

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

Not applicable for product as supplied. MARPOL Annex 1 rules apply for bulk shipments by sea.

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.

SECTION 15. REGULATORY INFORMATION

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

*: 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.

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SARA 304 Extremely Hazardous Substances Reportable Quantity

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

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

| SARA 311/312 Hazards | : | No SARA Hazards | | |
|----------------------|---|---|------------|--------------|
| SARA 313 | : | The following components are subject to reporting levels es- tablished by SARA Title III, Section 313: | | |
| | | Zinc dialkyldithiophos- phate | 68457-79-4 | >= 1 - < 5 % |

Clean Water Act

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

US State Regulations

Pennsylvania Right To Know

| Asphalt | 8052-42-4 |
|-----------------------------|------------|
| Zinc dialkyldithiophosphate | 68457-79-4 |

California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

California List of Hazardous Substances

| Asphalt | 8052-42-4 |
|-----------------------------|------------|
| Molybdenum disulfide | 1317-33-5 |
| Zinc dialkyldithiophosphate | 68457-79-4 |

Other regulations:

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

| The components of this product are reported in the following inventories: | | | | | | |
|---|---|----------------------------|--|--|--|--|
| EINECS | : | Not established. | | | | |
| TSCA | : | Not all components listed. | | | | |
| DSL | : | Not all components listed. | | | | |

SECTION 16. OTHER INFORMATION

Further information

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

Full text of other abbreviations

| ACGIH / TWA : OSHA Z-1 / TWA : | USA. ACGIH Threshold Limit Values (TLV) USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim- its for Air Contaminants 8-hour, time-weighted average 8-hour time weighted average The standard abbreviations and acronyms used in this docu- ment 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 DSL = Canada Domestic Substance List EC = European Commission EC50 = Effective Concentration fifty ECETOC = European Center on Ecotoxicology and Toxicolo- gy 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 Level fifty IMDG = International Air Transport Association IC50 = Inhibitory Level fifty IMDG = International Air Transport Association IC50 = Inhibitory Level fifty IMDG = International Air Transport Association IC50 = Inhibitory Level fifty IMDG = International Air Transport Association IC50 = Inhibitory Concentration fifty IL50 = Inhibitory Level fifty IMDG = 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 Concentration fifty LD50 = Lethal Dose fifty per cent. LL/EL/L = Lethal Loading/Effective Loading/Inhibitory loading |

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Shell Gadus S2 Steel Spindle Grease

| Version | Revision Date: | SDS Number: | Print Date: 06/19/2020 |
|---------|----------------|---|---|
| 1.0 | 06/18/2020 | 800010041865 | Date of last issue: - |
| | | Pollution From S NOEC/NOEL = served Effect Le OE_HPV = Occ PBT = Persister PICCS = Philipp Substances PNEC = Predict REACH = Regis Chemicals RID = Regulatic gerous Goods b SKIN_DES = SI STEL = Short te TRA = Targetec TSCA = US Toy TWA = Time-W | ernational Convention for the Prevention of Ships No Observed Effect Concentration / No Ob- evel upational Exposure - High Production Volume nt, Bioaccumulative and Toxic bine Inventory of Chemicals and Chemical ted No Effect Concentration stration Evaluation And Authorisation Of ons Relating to International Carriage of Dan- by Rail |

A vertical bar (|) in the left margin indicates an amendment from the previous version.

Revision Date : 06/18/2020

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