

# SAFETY DATA SHEET

According to OSHA Hazard Communication Standard, 29 CFR  
1910.1200

## Shell Gadus S2 High Speed Coupling Grease

|         |                |              |                                |
|---------|----------------|--------------|--------------------------------|
| Version | Revision Date: | SDS Number:  | Print Date: 08/11/2018         |
| 3.0     | 08/10/2018     | 800001029869 | Date of last issue: 05/21/2015 |

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### SECTION 1. IDENTIFICATION

Product name : Shell Gadus S2 High Speed Coupling Grease

Product code : 001D8446

#### 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.

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### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with 29 CFR 1910.1200

Long-term (chronic) aquatic hazard : Category 3

#### 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:  
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.

# SAFETY DATA SHEET

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### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

### 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.

## 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.

### Hazardous components

| Chemical name               | Synonyms                                                                    | CAS-No.    | Concentration (% w/w) |
|-----------------------------|-----------------------------------------------------------------------------|------------|-----------------------|
| Zinc naphthenate            | Naphthenic acids, zinc salts                                                | 12001-85-3 | 0.1 - 0.9             |
| Zinc dialkyldithiophosphate | Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts | 68457-79-4 | 1 - 3                 |

## 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 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 : Flush eye with copious quantities of water.  
Remove contact lenses, if present and easy to do. Continue rinsing.

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## Shell Gadus S2 High Speed Coupling Grease

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---

|                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                            | If persistent irritation occurs, obtain medical attention.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| If swallowed                                                               | : In general no treatment is necessary unless large quantities are swallowed, however, get medical advice.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Most important symptoms and effects, both acute and delayed                | : Oil acne/folliculitis signs and symptoms may include formation of black pustules and spots on the skin of exposed areas. Ingestion may result in nausea, vomiting and/or diarrhoea. 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Indication of any immediate medical attention and special treatment needed | : 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 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. |

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### SECTION 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 fire-fighting         | : Hazardous combustion products may include:<br>A complex mixture of airborne solid and liquid particulates and gases (smoke).<br>Carbon monoxide may be evolved if incomplete combustion occurs.<br>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                                                           |

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|         |                |              |                                |
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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, protective equipment and emergency procedures | : Avoid contact with skin and eyes.                                                                                                                                                             |
| Environmental precautions                                           | : Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.           |
| 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 Chapter 8 of this Safety Data Sheet.<br>For guidance on disposal of spilled material see Chapter 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.<br>Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.         |
| Advice on safe handling                  | : Avoid prolonged or repeated contact with skin.<br>Avoid inhaling vapour and/or mists.<br>When handling product in drums, safety footwear should be worn and proper handling equipment should be used.<br>Properly dispose of any contaminated rags or cleaning materials in order to prevent fires. |
| Avoidance of contact                     | : Strong oxidising agents.                                                                                                                                                                                                                                                                            |
| Further information on storage stability | : Keep container tightly closed and in a cool, well-ventilated place.<br>Use properly labeled and closable containers.<br><br>Store at ambient temperature.                                                                                                                                           |
| Packaging material                       | : Suitable material: For containers or container linings, use mild steel or high density polyethylene.<br>Unsuitable material: PVC.                                                                                                                                                                   |

# SAFETY DATA SHEET

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Version 3.0      Revision Date: 08/10/2018      SDS Number: 800001029869      Print Date: 08/11/2018  
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Container Advice : Polyethylene containers should not be exposed to high temperatures because of possible risk of distortion.

### SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

#### Components with workplace control parameters

| Components        | CAS-No.      | Value type<br>(Form of exposure) | Control parameters / Permissible concentration | Basis    |
|-------------------|--------------|----------------------------------|------------------------------------------------|----------|
| Oil mist, mineral | Not Assigned | TWA (Mist)                       | 5 mg/m <sup>3</sup>                            | OSHA Z-1 |
| Oil mist, mineral |              | TWA (Inhalable fraction)         | 5 mg/m <sup>3</sup>                            | ACGIH    |

#### Biological occupational exposure limits

No biological limit allocated.

#### Monitoring Methods

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate.

Validated exposure measurement methods should be applied by a competent person and 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 Sécurité, (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.

# SAFETY DATA SHEET

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---

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.

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 [Type A/Type P boiling point >65°C (149°F)].

### Hand protection

Remarks : Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection. PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced.  
Personal hygiene is a key element of effective hand care.  
Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended.  
For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified. For short-term/splash protection we recommend the same, but recognize that suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time may be acceptable so long as appropriate maintenance

# SAFETY DATA SHEET

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|         |                |              |                                |
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and replacement regimes are followed. Glove thickness is not a good predictor of glove resistance to a chemical as it is dependent on the exact composition of the glove material. Glove thickness should be typically greater than 0.35 mm depending on the glove make and model.

- |                          |   |                                                                                                                                    |
|--------------------------|---|------------------------------------------------------------------------------------------------------------------------------------|
| Eye protection           | : | If material is handled such that it could be splashed into eyes, protective eyewear is recommended.                                |
| Skin and body protection | : | Skin protection is not ordinarily required beyond standard work clothes.<br>It is good practice to wear chemical resistant gloves. |
| Protective measures      | : | Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.                          |
| Thermal hazards          | : | Not applicable                                                                                                                     |

### Environmental exposure controls

- |                |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General advice | : | Take appropriate measures to fulfill the requirements of relevant environmental protection legislation. Avoid contamination of the environment by following advice given in Chapter 6. If necessary, prevent undissolved material from being discharged to waste water. Waste water should be treated in a municipal or industrial waste water treatment plant before discharge to surface water.<br>Local guidelines on emission limits for volatile substances must be observed for the discharge of exhaust air containing vapour. |
|----------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- |                                         |   |                                                                                            |
|-----------------------------------------|---|--------------------------------------------------------------------------------------------|
| Appearance                              | : | Semi-solid at ambient temperature.                                                         |
| Colour                                  | : | dark brown                                                                                 |
| Odour                                   | : | Slight hydrocarbon                                                                         |
| Odour Threshold                         | : | Data not available                                                                         |
| pH                                      | : | Not applicable                                                                             |
| Drop point                              | : | $\geq 160\text{ }^{\circ}\text{C}$ / $\geq 320\text{ }^{\circ}\text{F}$<br>Method: Mettler |
| Initial boiling point and boiling range | : | Data not available                                                                         |
| Flash point                             | : | Not applicable                                                                             |
| Evaporation rate                        | : | Data not available                                                                         |

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---

|                                                  |   |                                                                  |
|--------------------------------------------------|---|------------------------------------------------------------------|
| Flammability (solid, gas)                        | : | Data not available                                               |
| Upper explosion limit / upper flammability limit | : | Typical 10 %(V)                                                  |
| Lower explosion limit / Lower flammability limit | : | Typical 1 %(V)                                                   |
| Vapour pressure                                  | : | < 0.5 Pa (20 °C / 68 °F)<br>estimated value(s)                   |
| Relative vapour density                          | : | > 1<br>estimated value(s)                                        |
| Relative density                                 | : | 0.900 (15 °C / 59 °F)                                            |
| Density                                          | : | 900 kg/m <sup>3</sup> (15.0 °C / 59.0 °F)<br>Method: Unspecified |
| Solubility(ies)                                  |   |                                                                  |
| Water solubility                                 | : | negligible                                                       |
| Solubility in other solvents                     | : | Data not available                                               |
| Partition coefficient: n-octanol/water           | : | log Pow: > 6<br>(based on information on similar products)       |
| Auto-ignition temperature                        | : | > 320 °C / 608 °F                                                |
| Decomposition temperature                        | : | Data not available                                               |
| Viscosity                                        |   |                                                                  |
| Viscosity, dynamic                               | : | Data not available                                               |
| Viscosity, kinematic                             | : | Not applicable                                                   |
| Explosive properties                             | : | Not classified                                                   |
| Oxidizing properties                             | : | Data not available                                               |
| Conductivity                                     | : | This material is not expected to be a static accumulator.        |

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### 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 reactions | : | Reacts with strong oxidising agents.                                                                                 |



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|         |                |              |                                |
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| 3.0     | 08/10/2018     | 800001029869 | Date of last issue: 05/21/2015 |

---

|                                  |   |                                                     |
|----------------------------------|---|-----------------------------------------------------|
| Conditions to avoid              | : | Extremes of temperature and direct sunlight.        |
| Incompatible materials           | : | Strong oxidising agents.                            |
| Hazardous decomposition products | : | No decomposition if stored and applied as directed. |

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### 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<br>Remarks: Low toxicity:<br>Based on available data, the classification criteria are not met.    |
| Acute inhalation toxicity | : | Remarks: Based on available data, the classification criteria are not met.                                                  |
| Acute dermal toxicity     | : | LD50 (Rabbit): > 5,000 mg/kg<br>Remarks: Low toxicity:<br>Based on available data, the classification criteria 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.

# SAFETY DATA SHEET

According to OSHA Hazard Communication Standard, 29 CFR  
1910.1200

## Shell Gadus S2 High Speed Coupling Grease

Version  
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SDS Number:  
800001029869

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---

### Respiratory or skin sensitisation

#### Product:

Remarks: Not a skin sensitiser.

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

### 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 skin-painting 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.

### 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

#### Product:

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

# SAFETY DATA SHEET

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

## Shell Gadus S2 High Speed Coupling Grease

|         |                |              |                                |
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| Version | Revision Date: | SDS Number:  | Print Date: 08/11/2018         |
| 3.0     | 08/10/2018     | 800001029869 | Date of last issue: 05/21/2015 |

### 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 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: LL/EL/IL50 10-100 mg/l  
Harmful

Toxicity to daphnia and other aquatic invertebrates (Acute toxicity) : Remarks: LL/EL/IL50 10-100 mg/l  
Harmful

Toxicity to algae (Acute toxicity) : Remarks: LL/EL/IL50 10-100 mg/l  
Harmful

Toxicity to fish (Chronic toxicity) : Remarks: Data not available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: Data not available

# SAFETY DATA SHEET

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1910.1200

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| 3.0     | 08/10/2018     | 800001029869 | Date of last issue: 05/21/2015 |

---

Toxicity to microorganisms : Remarks: Data not available  
(Acute toxicity)

### **Components:**

#### **Zinc naphthenate:**

M-Factor (Acute aquatic tox- : 1  
icity)

### **Persistence and degradability**

#### **Product:**

Biodegradability : Remarks: Not readily biodegradable.  
Major constituents are inherently biodegradable, but contains  
components that may persist in the environment.

### **Bioaccumulative potential**

#### **Product:**

Bioaccumulation : Remarks: Contains components with the potential to bioac-  
cumulate.

### **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**

#### **Product:**

Additional ecological infor- : Does not have ozone depletion potential, photochemical  
mation 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.

Mineral oil does not cause chronic toxicity to aquatic organ-  
isms at concentrations less than 1 mg/l.

# SAFETY DATA SHEET

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## Shell Gadus S2 High Speed Coupling Grease

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| 3.0     | 08/10/2018     | 800001029869 | Date of last issue: 05/21/2015 |

---

### 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

Waste product should not be allowed to contaminate soil or ground water, or be disposed of into the environment.  
Waste, spills or used product is dangerous waste.

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.

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### 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 Chapter 7, Handling & Storage, for special precautions which a user needs to be aware of or needs to comply with in connection with transport.

# SAFETY DATA SHEET

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

## Shell Gadus S2 High Speed Coupling Grease

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| Version | Revision Date: | SDS Number:  | Print Date: 08/11/2018         |
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### 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.

#### 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 established by SARA Title III, Section 313:

|                             |            |                |
|-----------------------------|------------|----------------|
| Zinc dialkyldithiophosphate | 68457-79-4 | >= 1 - < 5 %   |
| Zinc naphthenate            | 12001-85-3 | >= 0.1 - < 1 % |
| zinc neodecanoate           | 27253-29-8 | < 0.1 %        |

#### 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

|                                                        |            |
|--------------------------------------------------------|------------|
| Distillates (petroleum), hydrotreated heavy naphthenic | 64742-52-5 |
| Zinc dialkyldithiophosphate                            | 68457-79-4 |
| Zinc naphthenate                                       | 12001-85-3 |
| Distillates (petroleum), hydrotreated middle           | 64742-46-7 |
| zinc neodecanoate                                      | 27253-29-8 |

##### 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

|                                                        |            |
|--------------------------------------------------------|------------|
| Distillates (petroleum), hydrotreated heavy naphthenic | 64742-52-5 |
| 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 : All components listed or polymer exempt.

# SAFETY DATA SHEET

According to OSHA Hazard Communication Standard, 29 CFR  
1910.1200

## Shell Gadus S2 High Speed Coupling Grease

|         |                |              |                                |
|---------|----------------|--------------|--------------------------------|
| Version | Revision Date: | SDS Number:  | Print Date: 08/11/2018         |
| 3.0     | 08/10/2018     | 800001029869 | Date of last issue: 05/21/2015 |

TSCA : All components listed.

DSL : All components listed.

### SECTION 16. OTHER INFORMATION

#### Further information

NFPA Rating (Health, Fire, Reactivity) 0, 1, 0

#### Full text of other abbreviations

|                            |                                                                                                                                                          |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| ACGIH                      | : USA. ACGIH Threshold Limit Values (TLV)                                                                                                                |
| OSHA Z-1                   | : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants                                                                       |
| ACGIH / TWA                | : 8-hour, time-weighted average                                                                                                                          |
| OSHA Z-1 / TWA             | : 8-hour time weighted average                                                                                                                           |
| 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. |

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 für 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

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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  
LL50 = Lethal Loading fifty  
MARPOL = International Convention for the Prevention of  
Pollution From Ships  
NOEC/NOEL = No Observed Effect Concentration / No Ob-  
served Effect Level  
OE\_HP V = Occupational Exposure - High Production Volume  
PBT = Persistent, Bioaccumulative and Toxic  
PICCS = Philippine Inventory of Chemicals and Chemical  
Substances  
PNEC = Predicted No Effect Concentration  
REACH = Registration Evaluation And Authorisation Of  
Chemicals  
RID = Regulations Relating to International Carriage of Dan-  
gerous Goods by Rail  
SKIN\_DES = Skin Designation  
STEL = Short term exposure limit  
TRA = Targeted Risk Assessment  
TSCA = US Toxic Substances Control Act  
TWA = Time-Weighted Average  
vPvB = very Persistent and very Bioaccumulative

**|| Due to a change in detail in Section 15, this document has been released as a significant change.**

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 data base, EC 1272 regulation, etc).

Revision Date : 08/10/2018

The information provided in this Safety Data Sheet is correct to the best of our knowledge, infor-  
mation and belief at the date of its publication. The information given is designed only as a guid-  
ance for safe handling, use, processing, storage, transportation, disposal and release and is not  
to be considered a warranty or quality specification. The information relates only to the specific



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material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / EN