

1. Product and company identification

| | |
|----------------------------|---|
| Product name | Castrol High Temperature Grease |
| Product code | 467200-SG01 |
| SDS no. | 467200 |
| Original preparation date | 03/12/2019 |
| Supplier | BP Castrol K.K. 1-11-2, Osaki, Shinagawaku, Tokyo, 141-0032 East Tower 20F, Gate City Osaki Telephone : 03-5719-7860 (days & hours of operation : Monday - Friday, 09:00 - 17:00) Carechem: 0120-015-230 (Operation time: 24 hrs) |
| EMERGENCY TELEPHONE NUMBER | Carechem: 0120-015-230 (Operation time: 24 hrs) |

Relevant identified uses of the substance or mixture and uses advised against

| | |
|-----------------|--|
| Identified uses | Grease for industrial applications. For specific application advice see appropriate Technical Data Sheet or consult our company representative. |
|-----------------|--|

Uses advised against

Use advised against: Consult with experts for use other than relevant identified use

2. Hazards identification

| | |
|---|---|
| GHS Classification | Not classified. |
| <u>GHS label elements</u> | |
| Signal word | No signal word. |
| Hazard statements | No known significant effects or critical hazards. |
| Precautionary statements | |
| Prevention | Not applicable. |
| Response | Not applicable. |
| Storage | Not applicable. |
| Disposal | Not applicable. |
| Other hazards which do not result in classification | Defatting to the skin. Note: High Pressure Applications Injections through the skin resulting from contact with the product at high pressure constitute a major medical emergency. See 'Notes to physician' under First-Aid Measures, Section 4 of this Safety Data Sheet. |

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| | | | Build 6.2 (Japan) | (ENGLISH) |

3. Composition/information on ingredients

Substance/mixture

Mixture

Highly refined base oil (IP 346 DMSO extract < 3%). Thickening agent. Proprietary performance additives.

| Ingredient name | % | CAS number | Official Gazette notice reference number | |
|---|-----------|------------|--|----------------|
| | | | CSCL | ISHL |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | ≥25 - ≤50 | 64742-65-0 | Not available. | Not available. |
| Residual oils (petroleum), solvent refined | ≥25 - ≤50 | 64742-01-4 | Not available. | Not available. |
| Distillates (petroleum), hydrotreated heavy naphthenic | ≤10 | 64742-52-5 | (9)-1689 | Not available. |
| dilithium sebacate | ≤3.0 | 19370-86-6 | Not available. | Not available. |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Applicability to local regulations are determined with consideration of reactions of constituents included in the formulation. Please see section 15 for regulatory information.

4. First aid measures

Description of necessary first aid measures

Eye contact

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and remove any contact lenses. Get medical attention.

Inhalation

If inhaled, remove to fresh air. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. Get medical attention if symptoms occur.

Skin contact

Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur.

Ingestion

Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

Indication of immediate medical attention and special treatment needed, if necessary

Protection of first-aiders

No action shall be taken involving any personal risk or without suitable training.

Notes to physician

Treatment should in general be symptomatic and directed to relieving any effects. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Note: High Pressure Applications

Injections through the skin resulting from contact with the product at high pressure constitute a major medical emergency. Injuries may not appear serious at first but within a few hours tissue becomes swollen, discoloured and extremely painful with extensive subcutaneous necrosis.

Surgical exploration should be undertaken without delay. Thorough and extensive debridement of the wound and underlying tissue is necessary to minimise tissue

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4. First aid measures

loss and prevent or limit permanent damage. Note that high pressure may force the product considerable distances along tissue planes.

Specific treatments

No specific treatment.

5. Firefighting measures

Extinguishing media

Suitable

In case of fire, use water fog, alcohol resistant foam, dry chemical or carbon dioxide extinguisher or spray.

Not suitable

Do not use water jet.

Specific hazards arising from the chemical

No specific fire or explosion hazard.

Hazardous thermal decomposition products

Combustion products may include the following:
metal oxide/oxides
carbon oxides (CO, CO₂) (carbon monoxide, carbon dioxide)
sulphur oxides (SO, SO₂, etc.)
nitrogen oxides (NO, NO₂ etc.)

Special protective actions for fire-fighters

No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.

Special protective equipment for fire-fighters

Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment. Floors may be slippery; use care to avoid falling.

For emergency responders

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and material for containment and cleaning up

Small spill

Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.

Large spill

Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Avoid creating dusty conditions and prevent wind dispersal. If emergency personnel are unavailable, contain spilt material. Suction or scoop the spill into appropriate disposal or recycling vessels, then cover spill area with oil absorbent. Dispose of via a licensed waste disposal contractor.

In the case of spillage at sea approved dispersants may be used where authorised by the appropriate government/regulatory authorities.

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7. Handling and storage

Protective measures

Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep away from heat and direct sunlight. Keep container tightly closed and sealed until ready for use. Store and use only in equipment/containers designed for use with this product. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Not suitable

Prolonged exposure to elevated temperature

8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

| Ingredient name | Exposure limits |
|---|--|
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | Japan Society for Occupational Health (Japan). [Oil mist, mineral] OEL-M: 3 mg/m ³ 8 hours. Issued/Revised: 5/2010 Form: Mist |
| Residual oils (petroleum), solvent refined | Japan Society for Occupational Health (Japan). [Oil mist, mineral] OEL-M: 3 mg/m ³ 8 hours. Issued/Revised: 5/2010 Form: Mist |
| Distillates (petroleum), hydrotreated heavy naphthenic | Japan Society for Occupational Health (Japan). [Oil mist, mineral] OEL-M: 3 mg/m ³ 8 hours. Issued/Revised: 5/2010 Form: Mist |

Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Appropriate engineering controls

All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should only be considered after other forms of control measures (e.g. engineering controls) have been suitably evaluated. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained.

Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. For further information contact your national organisation for standards.

Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits.

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8. Exposure controls/personal protection

The final choice of protective equipment will depend upon a risk assessment. It is important to ensure that all items of personal protective equipment are compatible.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Biological exposure indices

No exposure indices known.

Individual protection measures

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. For protection against metal working fluids, respiratory protection that is classified as "resistant to oil" (class R) or oil proof (class P) should be selected where appropriate. Depending on the level of airborne contaminants, an air-purifying, half-mask respirator (with HEPA filter) including disposable (P- or R-series) (for oil mists less than 50mg/m³), or any powered, air-purifying respirator equipped with hood or helmet and HEPA filter (for oil mists less than 125 mg/m³). Where organic vapours are a potential hazard during metalworking operations, a combination particulate and organic vapour filter may be necessary. The correct choice of respiratory protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment. Safety procedures should be developed for each intended application. Respiratory protection equipment should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

Hand protection

Wear protective gloves if prolonged or repeated contact is likely. Wear chemical resistant gloves. Recommended: Nitrile gloves. The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). Most gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

Eye protection

Safety glasses with side shields.

Skin protection

Use of protective clothing is good industrial practice. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Cotton or polyester/cotton overalls will only provide protection against light superficial contamination that will not soak through to the skin. Overalls should be laundered on a regular basis. When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical suits and boots will be required.

Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

| | |
|---|-----------------------------|
| Physical state | Grease |
| Colour | Amber. |
| Odour | Characteristic. |
| pH | Not applicable. |
| Melting point/freezing point | >260°C (>500°F) |
| Softening point | Not available. |
| Boiling point, initial boiling point, and boiling range | Not available. |
| Flash point | Closed cup: >230°C (>446°F) |
| Fire point | Not available. |
| Evaporation rate | Not available. |
| Flammability | Not available. |
| Lower and upper explosive (flammable) limits | Not available. |
| Vapour pressure | Not available. |

| Ingredient name | Vapour Pressure at 20°C | | | Vapour pressure at 50°C | | |
|-----------------|-------------------------|-----|--------|-------------------------|-----|--------|
| | mm Hg | kPa | Method | mm Hg | kPa | Method |
| | | | | | | |

| | |
|---------------------------|------------------------------------|
| Relative vapour density | Not applicable. |
| Relative Density | Not available. |
| Density | <1 g/cm ³ [20°C (68°F)] |
| Auto-ignition temperature | >300°C (>572°F) |

| Ingredient name | °C | °F | Method |
|-----------------|----|----|--------|
| Not listed. | | | |

| | |
|--|---|
| Decomposition temperature | Not available. |
| Lower and upper explosion limit/flammability limit | Not applicable. |
| Volatility | Not available. |
| Critical temperature | Not available. |
| Oxidising properties | Not available. |
| Viscosity | Not available. |
| Drop Point | Not available. |
| Density | <1000 kg/m ³ (<1 g/cm ³) at 20°C |
| Solubility(ies) | |

| Media | Result |
|-------|-------------|
| water | Not soluble |

| | |
|--------------------------------------|-----------------|
| Solubility at room temperature (g/l) | Not available. |
| Partition coefficient (LogKow) | Not applicable. |

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9. Physical and chemical properties

Remarks Not available.

Particle characteristics

Median particle size Not available.

10. Stability and reactivity

Reactivity No specific test data available for this product. Refer to Conditions to avoid and Incompatible materials for additional information.

Chemical stability The product is stable.

Possibility of hazardous reactions Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerisation will not occur.

Conditions to avoid Avoid all possible sources of ignition (spark or flame).

Incompatible materials Reactive or incompatible with the following materials: oxidising materials.

Hazardous decomposition products Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

Acute toxicity

No data available

Irritation/Corrosion

No data available

Sensitiser

No data available

Carcinogenicity

No data available

Mutagenicity

No data available

Teratogenicity

No data available

Reproductive toxicity

Aspiration hazard

No data available

Information on likely routes of exposure

Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Potential acute health effects

Eye contact

No known significant effects or critical hazards.

Inhalation

Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Skin contact

Defatting to the skin. May cause skin dryness and irritation.

Ingestion

No known significant effects or critical hazards.

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11. Toxicological information

[Symptoms related to the physical, chemical and toxicological characteristics](#)

| | |
|--------------|--|
| Eye contact | No specific data. |
| Inhalation | No specific data. |
| Skin contact | Adverse symptoms may include the following: irritation dryness cracking |
| Ingestion | No specific data. |

[Delayed and immediate effects as well as chronic effects from short and long-term exposure](#)

| | |
|--------------|--|
| Eye contact | Potential risk of transient stinging or redness if accidental eye contact occurs. |
| Skin contact | Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. |
| Ingestion | Ingestion of large quantities may cause nausea and diarrhoea. |

[Potential chronic health effects](#)

| | |
|-----------------------|---|
| General | No known significant effects or critical hazards. |
| Carcinogenicity | No known significant effects or critical hazards. |
| Mutagenicity | No known significant effects or critical hazards. |
| Teratogenicity | No known significant effects or critical hazards. |
| Developmental effects | No known significant effects or critical hazards. |
| Fertility effects | No known significant effects or critical hazards. |

[Numerical measures of toxicity](#)

[Acute toxicity estimates](#)

| Route | ATE value |
|-------|----------------|
| Oral | 21760.87 mg/kg |

12. Ecological information

| | |
|---|---|
| Environmental effects | No known significant effects or critical hazards. |
| Persistence and degradability | Expected to be biodegradable. |
| Bioaccumulative potential | |
| Bioaccumulative potential | This product is not expected to bioaccumulate through food chains in the environment. |
| Mobility | Spillages are unlikely to penetrate the soil. |
| Hazardous to the ozone layer | Not applicable. |
| Other ecological information | This product is unlikely to disperse in water. |

13. Disposal considerations

| | |
|------------------|---|
| Disposal methods | The generation of waste should be avoided or minimised wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff |
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13. Disposal considerations

and contact with soil, waterways, drains and sewers.

14. Transport information

| | IMDG | IATA |
|----------------------------|----------------|----------------|
| UN number | Not regulated. | Not regulated. |
| UN proper shipping name | - | - |
| Transport hazard class(es) | - | - |
| Packing group | - | - |
| Environmental hazards | No. | No. |
| Additional information | - | - |

Special precautions for user Not available.

[Transport in bulk according to IMO instruments](#)

Not available.

15. Regulatory information

[Fire Service Law](#)

| Category | Substance name/Type | Danger category | Signal word | Designated quantity |
|-----------------|---------------------|-----------------|-------------|---------------------|
| Not applicable. | | | | |

[Industrial Safety and Health Act](#)

Special Organic Solvents, etc. Not available.

[Substances requiring labelling](#)

| Ingredient name | Name on list | CAS no. | Conc. | Status | Reference number |
|-----------------|--------------|---------|---------|--------|------------------|
| - | Mineral oil | - | 80 - 90 | Listed | 168 |

*Chemicals damaging skin/eye and Skin-absorbable harmful substances based on Article 594-2 are disclosed in the above table.

[Chemicals requiring notification](#)

| Ingredient name | Name on list | CAS no. | Conc. | Status | Reference number |
|-----------------|-------------------|---------|----------|--------|------------------|
| - | Mineral oil | - | 80 - 90 | Listed | 168 |
| - | Lithium hydroxide | - | 0.1 - <1 | Listed | 320 |

[Carcinogens based on Article 577-2 of the Ordinance on ISH](#)

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15. Regulatory information

| Ingredient name | % | Status | Reference number |
|------------------------------------|---|--------|------------------|
| None of the components are listed. | | | |

[Carcinogens based on Paragraph 3, Article 28 of the Law](#)

| Ingredient name | % | Status | Reference number |
|------------------------------------|---|--------|------------------|
| None of the components are listed. | | | |

[Pollutant Release and Transfer Registers \(PRTR\) - Until March 2023](#)

None of the components are listed.

[Pollutant Release and Transfer Registers \(PRTR\) - From April 2023](#)

None of the components are listed.

[Other regulations](#)

| | |
|---|---|
| Australia inventory (AIIC) | All components are listed or exempted. |
| Canada inventory | All components are listed or exempted. |
| China inventory (IECSC) | All components are listed or exempted. |
| Japan inventory (CSCL) | At least one component is not listed. |
| Korea inventory (KECI) | At least one component is not listed. |
| Philippines inventory (PICCS) | All components are listed or exempted. |
| Taiwan Chemical Substances Inventory (TCSI) | All components are listed or exempted. |
| United States inventory (TSCA 8b) | All components are active or exempted. |
| REACH Status | For the REACH status of this product please consult your company contact, as identified in Section 1. |

16. Other information

[History](#)

| | |
|--|---------------------|
| Date of issue/Date of revision | 2024 November 21. |
| Date of previous issue | 2024 April 23. |
| Prepared by | Product Stewardship |

The Japan key to abbreviations is as follows:

GHS = Global Harmonized System
CAS Number = Chemical Abstracts Service Registry Number
ISHL = Industrial Safety and Health Law
OSHL = Occupational Safety and Health Law
PRTR = Law Concerning Reporting of the Release into the Environment of Specific Chemical Substances and Promoting Improvements in Their Management
ENCS = Existing and New Chemical Substances
METI = Ministry of Economy, Trade and Industry
OEL = Occupational Exposure Limit
JSOH = Japan Society for Occupational Health
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006]
TWA = Time weighted average

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16. Other information

STEL = Short term exposure limit

IMDG = International Maritime Organization Rules, rules governing shipment of goods by water.

IATA = International Air Transport Association, the organization

UN Number = United Nations Number, a four digit number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods.

Varies = may contain one or more of the following 64741-88-4, 64741-89-5, 64741-95-3, 64741-96-4, 64742-01-4, 64742-44-5, 64742-45-6, 64742-52-5, 64742-53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-57-0, 64742-58-1, 64742-62-7, 64742-63-8, 64742-65-0, 64742-70-7, 72623-85-9, 72623-86-0, 72623-87-1

[Procedure used to derive the classification](#)

| Classification | Justification |
|-----------------|---------------|
| Not classified. | |

 Indicates information that has changed from previously issued version.

[Notice to reader](#)

All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained in it is accurate as of the date specified below. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet.

The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other than for the stated application or applications without seeking advice from BP Group.

It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The BP Group shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material. Purchasers of the product for supply to a third party for use at work, have a duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. Employers have a duty to tell employees and others who may be affected of any hazards described in this sheet and of any precautions that should be taken. You can contact the BP Group to ensure that this document is the most current available. Alteration of this document is strictly prohibited.

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