

## 1. Product and company identification

Product name	Castrol Flushing Oil
Product code	458691-JP07
SDS no.	458691
Original preparation date	20/11/2008
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	Flushing oil. For specific application advice see appropriate Technical Data Sheet or consult our company representative.
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### Uses advised against

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

## 2. Hazards identification

GHS Classification	HAZARDOUS TO THE AQUATIC ENVIRONMENT - ACUTE HAZARD - Category 3
<u>GHS label elements</u>	
Signal word	No signal word.
Hazard statements	H402 - Harmful to aquatic life.
Precautionary statements	
Prevention	P273 - Avoid release to the environment.
Response	Not applicable.
Storage	Not applicable.
Disposal	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hazards which do not result in classification	Defatting to the skin.

## 3. Composition/information on ingredients

Substance/mixture	Mixture
Highly refined base oil (IP 346 DMSO extract < 3%). Proprietary performance additives.	

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		Original preparation date	6/16/2015		(ENGLISH)
			Build 6.2		(Japan)

### 3. Composition/information on ingredients

Ingredient name	%	CAS number	Official Gazette notice reference number	
			CSCL	ISHL
Distillates (petroleum), hydrotreated heavy paraffinic	≥90	64742-54-7	Not available.	Not available.
Bis (2-hydroxyethyl) tallow alkylamine	≤0.10	61791-44-4	7-60	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. 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. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Get medical attention if adverse health effects persist or are severe.

#### 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.
Specific treatments	No specific treatment.

### 5. Firefighting measures

#### Extinguishing media

Suitable	Use foam or all-purpose dry chemical to extinguish.
Not suitable	Do not use water jet.
Specific hazards arising from the chemical	Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life.
Hazardous thermal decomposition products	Combustion products may include the following: carbon oxides (CO, CO <sub>2</sub> ) (carbon monoxide, carbon dioxide)
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.

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## 5. Firefighting measures

### 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

Contact 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. Avoid breathing vapour or mist. Provide adequate ventilation. Put on appropriate personal protective equipment. Floors may be slippery; use care to avoid falling.

#### For emergency responders

Entry into a confined space or poorly ventilated area contaminated with vapour, mist or fume is extremely hazardous without the correct respiratory protective equipment and a safe system of work. Wear self-contained breathing apparatus. Wear a suitable chemical protective suit. Chemical resistant boots. 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). Water polluting material. May be harmful to the environment if released in large quantities.

### Methods and material for containment and cleaning up

#### Small spill

Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

#### Large spill

Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Contaminated absorbent material may pose the same hazard as the spilt product. 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.

## 7. Handling and storage

### Protective measures

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Avoid contact of spilt material and runoff with soil and surface waterways.

### 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.

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## 7. Handling and storage

### 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 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), hydrotreated heavy paraffinic	<b>Japan Society for Occupational Health (Japan). [Oil mist, mineral]</b> OEL-M: 3 mg/m <sup>3</sup> 8 hours. Issued/Revised: 5/2010 Form: Mist

### Recommended monitoring procedures

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.

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.

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## 8. Exposure controls/personal protection

### Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. 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.

## 9. Physical and chemical properties

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

### Appearance

#### Physical state

Liquid.

#### Colour

Brown.

#### Odour

Not available.

#### pH

Not applicable.

#### Melting point/freezing point

Not available.

#### Softening point

Not available.

#### Boiling point, initial boiling point, and boiling range

Not available.

#### Flash point

Open cup: 222°C (431.6°F) [Cleveland]

#### Fire point

Not available.

#### Evaporation rate

Not available.

#### Flammability

Not available.

#### Lower and upper explosive (flammable) limits

Not available.

#### Vapour pressure

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## 9. Physical and chemical properties

Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
Distillates (petroleum), hydrotreated heavy paraffinic	<0.08	<0.011	ASTM D 5191			

Relative vapour density Not available.  
 Relative Density Not available.  
 Density 0.866 g/cm<sup>3</sup> [15°C (59°F)]  
 Auto-ignition temperature Not available.

Ingredient name	°C	°F	Method
Not listed.			

Decomposition temperature Not available.  
 Lower and upper explosion limit/flammability limit Not available.  
 Volatility Not available.  
 Critical temperature Not available.  
 Oxidising properties Not available.  
 Viscosity Kinematic: 24.7 to 28.7 mm<sup>2</sup>/s (24.7 to 28.7 cSt) at 40°C  
 Kinematic: 4.5 to 5.5 mm<sup>2</sup>/s (4.5 to 5.5 cSt) at 100°C  
 Drop Point Not available.  
 Density 866 kg/m<sup>3</sup> (0.866 g/cm<sup>3</sup>) at 15°C

### Solubility(ies)

Media	Result
water	Not soluble

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

### Particle characteristics

Median particle size Not applicable.

## 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.

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# 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: Dermal, Inhalation, Eyes.

## [Potential acute health effects](#)

### [Eye contact](#)

No known significant effects or critical hazards.

### [Inhalation](#)

Vapour inhalation under ambient conditions is not normally a problem due to low vapour pressure.

### [Skin contact](#)

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

### [Ingestion](#)

No known significant effects or critical hazards.

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

### [Eye contact](#)

No specific data.

### [Inhalation](#)

May be harmful by inhalation if exposure to vapour, mists or fumes resulting from thermal decomposition products occurs.

### [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.

### [Inhalation](#)

Overexposure to the inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract.

### [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](#)

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## 11. Toxicological information

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

No data available

## 12. Ecological information

Environmental effects	This material is harmful to aquatic life.
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 may penetrate the soil causing ground water contamination.
Hazardous to the ozone layer	Not applicable.
Other ecological information	Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.

## 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. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
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## 14. Transport information

	IMDG	IATA
UN number	Not regulated.	Not regulated.
UN proper shipping name	-	-
Transport hazard class(es)	-	-
Packing group	-	-

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## 14. Transport information

<b>Environmental hazards</b>	No.	No.
<b>Additional information</b>	-	-

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
Category IV	Class IV petroleum	III	Flammable - Keep Fire Away	6000 L

[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	-	90 - 100	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	-	90 - 100	Listed	168

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

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.			

Dangerous Substances Combustible

[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.

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## 15. Regulatory information

### 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)	All components are listed or exempted.
Korea inventory (KECI)	All components are listed or exempted.
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 April 23.
Date of previous issue	2023 November 13.
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  
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
HAZARDOUS TO THE AQUATIC ENVIRONMENT - ACUTE HAZARD - Category 3	Calculation method

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## 16. Other information

✔ 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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