

1. Product and company identification

Product name Castrol React SRF Racing
Product code 467286-GB13
SDS no. 467286
Original preparation date 30/06/2011
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

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

Identified uses Brake fluids.
 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.
GHS label elements

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 None known.

3. Composition/information on ingredients

Substance/mixture Mixture
 synthetic ester and Proprietary performance additives.

| Ingredient name | % | CAS number | Official Gazette notice reference number | |
|--|-------|------------|--|-----------|
| | | | CSCS | ISHL |
| Ethanol, 2,2'-[[(methyl-1H-benzotriazol-1-yl)methyl]imino]bis- | ≤0.30 | 88477-37-6 | 5-5917 | 8-(3)-630 |

| | | |
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3. Composition/information on ingredients

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 if symptoms occur. |
| Inhalation | If inhaled, remove to fresh air. Get medical attention if symptoms occur. |
| Skin contact | Flush contaminated skin with plenty of water. 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. |
| Specific treatments | No specific treatment. |

5. Firefighting measures

Extinguishing media

| | |
|--|---|
| Suitable | In case of fire, use foam, dry chemical or carbon dioxide extinguisher or spray. |
| Not suitable | Do not use water jet. |
| Specific hazards arising from the chemical | In a fire or if heated, a pressure increase will occur and the container may burst. |
| Hazardous thermal decomposition products | Combustion products may include the following: metal oxide/oxides carbon oxides (CO, CO ₂) (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. |
| 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 spilled material. Put on appropriate personal protective equipment. Floors may be slippery; use care to avoid falling. |
|-----------------------------|--|

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6. Accidental release measures

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

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. 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. 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).

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 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 |
|-----------------|-----------------|
| None. | |

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.

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8. Exposure controls/personal protection

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.

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: Butyl gloves. Neoprene 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.

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8. Exposure controls/personal protection

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

Amber. [Light]

Odour

Not available.

pH

9 to 10 [Conc. (% w/w): 100%]

Melting point/freezing point

Not available.

Softening point

Not available.

Boiling point, initial boiling point, and boiling range

Not available.

Flash point

Closed cup: 210°C (410°F)

Fire point

Not available.

Evaporation rate

Not available.

Flammability

Not available.

Lower and upper explosive (flammable) limits

Not available.

Vapour pressure

| Ingredient name | Vapour Pressure at 20°C | | | Vapour pressure at 50°C | | |
|--------------------------------|-------------------------|-----|--------|-------------------------|-----|--------|
| | mm Hg | kPa | Method | mm Hg | kPa | Method |
| 2,2'-(ethylenedioxy) diethanol | 0 | 0 | | | | |

Relative vapour density

Not available.

Relative Density

Not available.

Density

1.058 g/cm³ [20°C (68°F)]

Auto-ignition temperature

Not available.

| Ingredient name | °C | °F | Method |
|-------------------------------|-----|-------|--------|
| 2,2'-(ethylenedioxy)diethanol | 347 | 656.6 | |

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: 11.2 mm²/s (11.2 cSt) at 40°C
Kinematic: 3.5 mm²/s (3.5 cSt) at 100°C

Drop Point

Not available.

Density

1058 kg/m³ (1.058 g/cm³) at 20°C

Solubility(ies)

| | | | | | |
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9. Physical and chemical properties

| Media | Result |
|-------|---------|
| water | 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 excessive heat.

Incompatible materials Reactive or incompatible with the following materials: oxidising materials. Miscible in water. Strong oxidising materials. Incompatible with some strong acids. Do not use in brake systems requiring mineral oil. On contact these fluids will soften and may lift industrial coatings and paints.

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

| | | | | | | |
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11. Toxicological information

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

No known significant effects or critical hazards.

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

No specific data.

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

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

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 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.

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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 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 |
|-------------|---------------------|-----------------|----------------------------|---------------------|
| 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

None of the components are listed.

Chemicals requiring notification

None of the components are listed.

| | | | | | |
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15. Regulatory information

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. | | | |

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 (AIC) | All components are listed or exempted. |
| Canada inventory | At least one component is not listed. |
| China inventory (IECSC) | At least one component is not listed. |
| Japan inventory (CSCL) | All components are listed or exempted. |
| Korea inventory (KECI) | At least one component is not listed. |
| Philippines inventory (PICCS) | At least one component is not listed. |
| Taiwan Chemical Substances Inventory (TCSI) | At least one component is not listed. |
| 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 |

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16. Other information

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 |
|-----------------|---------------|
| 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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