## SAFETY DATA SHEET



### Castrol TQ-D

### **Section 1. Identification**

**GHS** product identifier Castrol TQ-D **Product code** 454220-BE02 SDS no. 454220

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

Use of the Automatic transmission fluid

For specific application advice see appropriate Technical Data Sheet or consult our substance/mixture

company representative.

**Manufacturer** 

**Supplier** Castrol (Shenzhen) Co Ltd

> 120# Manwan Road Nanshan District Shenzhen

Guangdong

Peoples Republic of China, 518054

Tel No: +86 755 33351001

**EMERGENCY TELEPHONE** 

**NUMBER** 

Carechem: +86 10 5100 3039 (24 hours)

# Section 2. Hazards identification

**GHS Classification** Not classified. **Routes of entry** Not available.

**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. Not applicable. **Storage Disposal** Not applicable.

# Section 3. Composition/information on ingredients

Substance/mixture Mixture

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

Ingredient name	%	CAS number
Base oil - unspecified Distillates (petroleum) hydrotreated middle	50 - 100 10 - 20 1 - 5 0.1 - 1	Varies Varies 64742-46-7 Proprietary

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.

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### Section 4. First-aid measures

### **Description of necessary first aid measures**

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Get medical attention if symptoms occur.

Ingestion Wash out mouth with water. Remove victim to fresh air and keep at rest in a position

comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Skin contact Flush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. Get medical attention if symptoms occur.

**Eye contact** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower

eyelids. Check for and remove any contact lenses. Get medical attention if irritation

occurs.

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

**Specific treatments** No specific treatment.

Notes to physician Treatment should in general be symptomatic and directed to relieving any effects.

Protection of first-aiders No action shall be taken involving any personal risk or without suitable training.

## Section 5. Fire-fighting measures

### **Extinguishing media**

Suitable Use an extinguishing agent suitable for the surrounding fire.

**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

Decomposition products may include the following materials:

carbon dioxide carbon monoxide

Special precautions for fire-

fighters

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

training.

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure

mode.

### Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures 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.

**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 materials for containment and cleaning up

Small spill Stop leak if without risk. Move containers from spill area. Dilute with water and mop

up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry 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. Wash spillages into an effluent treatment plant or proceed as follows. 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 (see section 13). Dispose of via a licensed waste disposal contractor. Note: see section 1 for

emergency contact information and section 13 for waste disposal.

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## Section 7. Handling and storage

Precautions for safe handling

Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

**Conditions for safe storage** 

Store in accordance with local regulations. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. 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.

## Section 8. Exposure controls/personal protection

#### Control parameters

Ingredient name	Exposure limits
Base oil - unspecified	ACGIH (United States). TWA: 5 mg/m³ 8 hour(s). Form: Mineral oil, mist
Base oil - unspecified	ACGIH (United States).  TWA: 5 mg/m³ 8 hour(s). Form: Mineral oil, mist
Distillates (petroleum) hydrotreated middle	ACGIH (United States). TWA: 5 mg/m³ 8 hour(s). Form: Oil mist, mineral

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.

Appropriate engineering controls

No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

**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.

### **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** 

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**Hand protection** 

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Eye protection Skin protection** 

Safety glasses with side shields.

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.

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## Section 9. Physical and chemical properties

#### **General information**

**Appearance** 

**Physical state** Liquid. Colour Red. Odour Oily.

#### Important health, safety and environmental information

Flash point Open cup: 217°C (422.6°F) [Cleveland.]

**Auto-ignition temperature** Not available. **Explosive properties** Not available. **Explosion limits** Not available. Flammability (solid, gas) Not available. **Decomposition temperature** Not available. Vapour pressure Not available. Vapour density Not available. Volatility Not available. **Evaporation rate** Not available. Not available. Critical temperature Not available. Oxidising properties **Odour threshold** Not available.

Kinematic: 39 mm<sup>2</sup>/s (39 cSt) at 40°C **Viscosity** 

Kinematic: 7.9 mm<sup>2</sup>/s (7.9 cSt) at 100°C

pH Not available. Boiling point / range Not available. Not available. Melting point / range **Drop Point** Not available. **Relative Density** Not available.

**Density** 870 kg/m3 (0.87 g/cm3) at 20°C

insoluble in water. Solubility Solubility at room Not available.

temperature (g/l)

**Dispersibility properties** Not available.

**Partition coefficient** >3

(LogKow)

## Section 10. Stability and reactivity

**Chemical stability** The product is stable.

Possibility of hazardous

reactions

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

Conditions to avoid No specific data. Incompatible materials No specific data.

**Hazardous decomposition** Under normal conditions of storage and use, hazardous decomposition products

products should not be produced.

## Section 11. Toxicological information

### Information on the likely routes of exposure

Inhalation No known significant effects or critical hazards. Ingestion No known significant effects or critical hazards. **Skin contact** No known significant effects or critical hazards. No known significant effects or critical hazards. Eye contact

Symptoms related to the physical, chemical and toxicological characteristics

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## Section 11. Toxicological information

InhalationNo specific data.IngestionNo specific data.

Skin No specific data.

Eyes No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Other information Unlikely to cause more than transient stinging or redness if accidental eye contact

occurs.

Unlikely to cause harm to the skin on brief or occasional contact but prolonged or

repeated exposure may lead to dermatitis.

Unlikely to cause harm if accidentally swallowed in small doses, though larger

quantities may cause nausea and diarrhoea.

At normal ambient temperatures this product will be unlikely to present an inhalation hazard because of its low volatility. May be harmful by inhalation if exposure to vapour, mists or fumes resulting from thermal decomposition products occurs.

#### Potential chronic health effects

**General** No known significant effects or critical hazards. Inhalation No known significant effects or critical hazards. Ingestion No known significant effects or critical hazards. Skin contact No known significant effects or critical hazards. **Eye contact** 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.

### **Aspiration hazard**

Name	Result
· ·	ASPIRATION HAZARD - Category 1
Gas oil - unspecified	ASPIRATION HAZARD - Category 1

Other information Not available.

## Section 12. Ecological information

Environmental effects This product shows a low bioaccumulation potential.

Persistence/degradability Inherently biodegradable

**Mobility** Spillages may penetrate the soil causing ground water contamination.

Bioaccumulative potential This product is not expected to bioaccumulate through food chains in the

environment.

Other adverse effects No known significant effects or critical hazards.

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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## Section 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.

## **Section 14. Transport information**

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
IATA Class	Not regulated.	-	-	-		-
IMDG Class	Not regulated.	-	-	-		-

PG\*: Packing group

**China Transportation Information** 

Dangerous goods code Not applicable. **UN number** Not regulated. Package mark Not applicable. **Packaging** Not applicable.

Matters needing attention for

transportation

Ensure that any additional local government transport conditions are met

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC

Code

: Not available.

## Section 15. Regulatory information

Regulation according to other foreign laws

**REACH Status** For the REACH status of this product please consult your company contact, as identified in

Section 1.

**United States inventory** 

(TSCA 8b)

All components are listed or exempted.

Australia inventory (AICS) All components are listed or exempted. Canada inventory status All components are listed or exempted. All components are listed or exempted. China inventory (IECSC) At least one component is not listed. Japan inventory (ENCS) Korea inventory (KECI) All components are listed or exempted.

Philippines inventory

(PICCS)

All components are listed or exempted.

Label requirements

Rules of Safety Management Concerning Chemical Dangerous Goods Classification and Labeling of Commonly-used Dangerous **Chemical Goods** 

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### Section 16. Other information

#### **History**

Date of issue/Date of 3/2/2011.

revision

Date of previous issue 3/1/2011.

Prepared by Product Stewardship

▼ 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 us.

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.

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