# **SAFETY DATA SHEET**



# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name Castrol Transmax DUAL

Product code 466523-DE01 SDS no. 466523 Product type Liquid.

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

Use of the Gear lubricant

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

representative.

# 1.3 Details of the supplier of the safety data sheet

Supplier Castrol (UK) Ltd

Wakefield House Pipers Way Swindon Wiltshire SN3 1RE

E-mail address MSDSadvice@bp.com

#### 1.4 Emergency telephone number

**EMERGENCY** Carechem: +44 (0) 1235 239 670 (24 hours)

**TELEPHONE NUMBER** 

# **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

Product definition Mixture

Classification according to Directive 1999/45/EC [DPD]

The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

See sections 11 and 12 for more detailed information on health effects and symptoms and environmental hazards.

# 2.2 Label elements

Risk phrases This product is not classified according to EU legislation.

Safety phrases Not applicable.
Supplemental label Not applicable.

elements

**Special packaging requirements** 

Containers to be fitted with child-resistant

Not applicable.

fastenings

Tactile warning of danger Not applicable.

# 2.3 Other hazards

# **SECTION 3: Composition/information on ingredients**

Substance/mixture Mixture

Synthetic base stock. Proprietary performance additives.

This product does not contain any hazardous ingredients at or above regulated thresholds.

#### **SECTION 4: First aid measures**

# 4.1 Description of 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 irritation occurs.

**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

irritation develops.

Inhalation If inhaled, remove to fresh air. Get medical attention if symptoms appear. 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.

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#### SECTION 4: First aid measures

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

symptoms occur.

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

#### 4.2 Most important symptoms and effects, both acute and delayed

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

#### 4.3 Indication of any immediate medical attention and special treatment needed

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

# SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing

In case of fire, use foam, dry chemical or carbon dioxide extinguisher or spray.

Unsuitable extinguishing

media

media

Do not use water jet.

#### 5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous combustion** 

products

Combustion products may include the following:

carbon oxides (CO, CO<sub>2</sub>) (carbon monoxide, carbon dioxide)

nitrogen oxides (NO, NO2 etc.)

#### 5.3 Advice for firefighters

Special precautions 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 appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for firefighters (including helmets, protective boots and gloves) conforming to European standard EN

469 will provide a basic level of protection for chemical incidents.

#### SECTION 6: Accidental release measures

#### 6.1 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. Floors may be slippery; use care to avoid falling. Put on appropriate personal protective equipment.

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 nonemergency personnel".

6.2 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).

# 6.3 Methods and materials 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

Immediately contact emergency personnel. 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.

6.4 Reference to other

sections

See Section 1 for emergency contact information.

See Section 5 for firefighting measures.

See Section 8 for information on appropriate personal protective equipment.

See Section 12 for environmental precautions

See Section 13 for additional waste treatment information.

### **SECTION 7: Handling and storage**

# 7.1 Precautions for safe handling

**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.

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# **SECTION 7: Handling and storage**

7.2 Conditions for safe storage, including any incompatibilities

Store and use only in equipment/containers designed for use with this product. Keep away from heat and direct sunlight. 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. Store in accordance with local regulations. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section

Not suitable

Prolonged exposure to elevated temperature.

#### 7.3 Specific end use(s)

Recommendations See section 1.2 and Exposure scenarios in annex, if applicable.

# SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

#### Occupational exposure limits

No exposure limit value known.

Whilst specific OELs for certain components may be shown in this section, other components may be present in any mist, vapour or dust produced. Therefore, the specific OELs may not be applicable to the product as a whole and are provided for guidance only.

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 European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

#### **Derived No Effect Level**

No DELs available.

#### **Predicted No Effect Concentration**

No PNEC available.

#### 8.2 Exposure controls

#### Appropriate engineering controls

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

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

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.

# 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. Ensure that eyewash stations and safety showers are close to the workstation location.

#### **Respiratory protection**

Respiratory protective equipment is not normally required where there is adequate natural or local exhaust ventilation to control exposure.

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.

# Eye/face protection **Skin protection**

Safety glasses with side shields.

**Hand protection** 

Wear protective gloves if prolonged or repeated contact is likely.

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.

Recommended: Nitrile gloves.

#### Skin and body

Use of protective clothing is good industrial practice.

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.

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 8: Exposure controls/personal protection**

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.

# **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

**Appearance** 

Physical state Liquid.
Colour Amber.

Odour Oily.

Odour threshold Not available.

Melting point/freezing point Initial boiling point and boiling

range

рΗ

Not available. Not available.

Not available.

Pour point -72 °C
Flash point Not available.
Evaporation rate Not available.
Flammability (solid, gas) Not available.
Upper/lower flammability or Not available.

explosive limits

Vapour pressure Not available.

Vapour densityNot available.Relative densityNot available.

**Density** 837.6 kg/m³ (0.838 g/cm³) at 15°C

Solubility(ies) insoluble in water.

Partition coefficient: n-

octanol/water

>3

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Kinematic: 35.5 mm²/s (35.5 cSt) at 40°C

Kinematic: 7.2 mm<sup>2</sup>/s (7.2 cSt) at 100°C

**Explosive properties**Not available. **Oxidising properties**Not available.

# 9.2 Other information

No additional information.

# **SECTION 10: Stability and reactivity**

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

materials for additional information

**10.2 Chemical stability** The product is stable.

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

10.4 Conditions to avoid No specific data.

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

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

#### SECTION 11: Toxicological information

# 11.1 Information on toxicological effects

Information on the likely Routes of entry anticipated:Dermal, Inhalation

routes of exposure

Potential acute health effects

Inhalation Exposure to decomposition products may cause a health hazard. Serious effects may be

delayed following exposure.

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.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation No specific data.

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# Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - United Kingdom (UK)

# **SECTION 11: Toxicological information**

IngestionNo specific data.Skin contactNo specific data.Eye contactNo specific data.

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

**Ingestion** Ingestion of large quantities may cause nausea and diarrhoea.

**Skin contact** Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis.

Eye contact Potential risk of transient stinging or redness if accidental eye contact occurs.

Potential chronic health effects

GeneralNo known significant effects or critical hazards.CarcinogenicityNo known significant effects or critical hazards.MutagenicityNo known significant effects or critical hazards.Developmental effectsNo known significant effects or critical hazards.Fertility effectsNo known significant effects or critical hazards.

## SECTION 12: Ecological information

#### 12.1 Toxicity

Environmental hazards Not classified as dangerous

#### 12.2 Persistence and degradability

Inherently biodegradable

#### 12.3 Bioaccumulative potential

This product is not expected to bioaccumulate through food chains in the environment.

12.4 Mobility in soil

Soil/water partition

Not available.

coefficient (Koc)

**Mobility** 

Spillages may penetrate the soil causing ground water contamination.

# 12.5 Results of PBT and vPvB assessment

PBT Not applicable.
vPvB Not applicable.

#### 12.6 Other adverse effects

Other ecological Spills may form a film on water surfaces causing physical damage to organisms. Oxygen

**information** transfer could also be impaired.

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### **Product**

Methods of disposal

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.

# Hazardous waste Yes. European waste catalogue (EWC)

Waste code	Waste designation	
13 02 06*	synthetic engine, gear and lubricating oils	

However, deviation from the intended use and/or the presence of any potential contaminants may require an alternative waste disposal code to be assigned by the end user.

# Packaging

**Methods of disposal** 

Dispose of via an authorised person/ licensed waste disposal contractor in accordance with local regulations. Recycle, if possible.

**Special precautions** 

This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Empty containers represent a fire hazard as they may contain flammable product residues and vapour. Never weld, solder or braze empty containers. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

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## **SECTION 14: Transport information**

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	ADR/RID	ADN/ADNR	IMDG	IATA	
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	
14.2 UN proper shipping name	-	-	-	-	
14.3 Transport hazard class(es)	-	-	-	-	
14.4 Packing group	-	-	-	-	
14.5 Environmental hazards	No.	No.	No.	No.	
14.6 Special precautions for user	Not available.	Not available.	Not available.	Not available.	
Additional information	-	-	-	-	

# **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Substances of very high concern

None of the components are listed.

**Annex XVII - Restrictions** on the manufacture, placing on the market and use of certain dangerous

substances, mixtures and articles

**Other regulations** 

**REACH Status** The company, as identified in Section 1, sells this product in the EU in compliance with the

current requirements of REACH.

**United States inventory** 

(TSCA 8b)

All components are listed or exempted.

**Australia inventory (AICS)** 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 (ENCS) All components are listed or exempted.

Not applicable.

Korea inventory (KECI) Not determined.

**Philippines inventory** 

(PICCS)

All components are listed or exempted.

15.2 Chemical Safety

Assessment

This product contains substances for which Chemical Safety Assessments are still required.

### **SECTION 16: Other information**

**Abbreviations and** acronyms

ADN/ADNR = European Provisions concerning the International Carriage of Dangerous Goods

by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by

Road

ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor CAS = Chemical Abstracts Service

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CSA = Chemical Safety Assessment CSR = Chemical Safety Report DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level

DPD = Dangerous Preparations Directive [1999/45/EC]

DSD = Dangerous Substances Directive [67/548/EEC]

EINECS = European Inventory of Existing Commercial chemical Substances

ES = Exposure Scenario

EUH statement = CLP-specific Hazard statement

FWC = Furopean Waste Catalogue

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

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#### **SECTION 16: Other information**

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

OECD = Organisation for Economic Co-operation and Development

PBT = Persistent, Bioaccumulative and Toxic

PNEC = Predicted No Effect Concentration

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN = REACH Registration Number

SADT = Self-Accelerating Decomposition Temperature

SVHC = Substances of Very High Concern STOT-RE = Specific Target Organ Toxicity - Repeated Exposure STOT-SE = Specific Target Organ Toxicity - Single Exposure

TWA = Time weighted average

UN = United Nations

UVCB = Complex hydrocarbon substance VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

Full text of abbreviated H

statements

Not applicable.

Full text of classifications

[CLP/GHS]

Not applicable.

Full text of abbreviated R

phrases

Not applicable.

Full text of classifications

**IDSD/DPD1** 

Not applicable.

History

Date of issue/ Date of

22/02/2011.

revision

No previous validation. Date of previous issue

Prepared by Product Stewardship

Indicates information that has changed from previously issued version.

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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