



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

### 1.1 Product identifier

**Product name** Castrol TBE  
**Product code** 452741-AT01 DE01  
**SDS no.** 452741  
**Product type** Liquid.

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

**Use of the substance/mixture** Fuel additive.  
 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** BP Europa SE, Oddział w Polsce  
 ul. Jasnogórska 1  
 31-358 Kraków  
  
 Biuro Handlowe:  
 ul. Chłodna 51  
 00-867 Warszawa  
 tel: +48 22 582 65 00  
 fax: +48 22 582 65 02  
  
**E-mail address** MSDSadvise@bp.com

### 1.4 Emergency telephone number

**EMERGENCY TELEPHONE NUMBER** Carechem: +44 (0) 1235 239 670 (24 hours)  
 + 48 22 582 65 80 (toxicology information)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** Mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Eye Dam. 1, H318  
 Asp. Tox. 1, H304  
 Aquatic Chronic 3, H412

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

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

**Classification** Xn; R65  
 Xi; R36  
 R66, R67  
 R52/53

**Human health hazards** Harmful: may cause lung damage if swallowed. Irritating to eyes. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

**Environmental hazards** Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

See Section 16 for the full text of the R phrases or H statements declared above.

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

### 2.2 Label elements

#### Hazard pictograms



**Signal word** Danger

**Product name** Castrol TBE

**Version** 3 **Date of issue** 11 February 2015

**Product code** 452741-AT01 DE01 **Page:** 1/12

**Format** Poland **Language** ENGLISH  
 (Poland)

**SECTION 2: Hazards identification**

<b>Hazard statements</b>	H318 - Causes serious eye damage. H304 - May be fatal if swallowed and enters airways. H412 - Harmful to aquatic life with long lasting effects.
<b>Precautionary statements</b>	
<b>Prevention</b>	P280 - Wear eye or face protection. P273 - Avoid release to the environment. P264 - Wash hands thoroughly after handling.
<b>Response</b>	P301 + P310 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. P305 + P310 - IF IN EYES: Immediately call a POISON CENTER or physician.
<b>Storage</b>	P405 - Store locked up.
<b>Disposal</b>	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
<b>Hazardous ingredients</b>	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) potassium 1,2-bis(2-ethylhexyloxycarbonyl)ethanesulphonate
<b>Supplemental label elements</b>	Not applicable.
<b>Special packaging requirements</b>	
<b>Containers to be fitted with child-resistant fastenings</b>	Yes, applicable.
<b>Tactile warning of danger</b>	Yes, applicable.

**2.3 Other hazards**

<b>Other hazards which do not result in classification</b>	Defatting to the skin.
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**SECTION 3: Composition/information on ingredients**

<b>Substance/mixture</b>	Mixture
Hydrocarbon solvent. Proprietary performance additives.	

				<b>Classification</b>	
<b>Product/ingredient name</b>	<b>Identifiers</b>	<b>%</b>	<b>67/548/EEC</b>	<b>Regulation (EC) No. 1272/2008 [CLP]</b>	<b>Type</b>
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	REACH# 01-2119473977-17	≥25 - <50	Xn; R65 R66 R52/53	Asp. Tox. 1, H304 Aquatic Chronic 3, H412	[1] [2]
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	REACH #: 01-2119456620-43 EC: - CAS: - Index: 649-422-00-2	≥10 - <25	Xn; R65 R66	Asp. Tox. 1, H304	[1]
Solvent naphtha (petroleum), heavy aromatic	EC: 265-198-5 CAS: 64742-94-5 Index: 649-424-00-3	≥5 - <10	Xn; R65 R66, R67 N; R51/53	STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	[1]
potassium 1,2-bis(2-ethylhexyloxycarbonyl)ethanesulphonate	EC: 231-308-5 CAS: 7491-09-0	≥5 - <8	Xi; R41, R38	Skin Irrit. 2, H315 Eye Dam. 1, H318	[1]
Distillates (petroleum), hydrotreated light	EC: 265-149-8 CAS: 64742-47-8 Index: 649-422-00-2	≥3 - <5	Xn; R65	Flam. Liq. 3, H226 Asp. Tox. 1, H304	[1] [2]
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, (2-25%) aromatics	REACH #: 01-2119458049-33 EC: - CAS: - Index: 649-330-00-2	≥1 - <3	R10 Xn; R65 R66, R67 N; R51/53	Flam. Liq. 3, H226 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	[1] [2]
1,2,4-Trimethylbenzene	EC: 202-436-9 CAS: 95-63-6 Index: 601-043-00-3	≥1 - <1.2	R10 Xn; R20 Xi; R36/37/38	Flam. Liq. 3, H226 Acute Tox. 4, H332 Skin Irrit. 2, H315	[1] [2]

**Product name** Castrol TBE**Product code** 452741-AT01 DE01 **Page:** 2/12**Version** 3 **Date of issue** 11 February 2015**Format** Poland **Language** ENGLISH  
(Poland)

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

			N; R51/53	Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 2, H411	
Low boiling point naphtha - unspecified	EC: 265-199-0 CAS: 64742-95-6 Index: 649-356-00-4	≥1 - <1.7	R10 Xn; R65 Xi; R37 R66, R67 N; R51/53	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	[1]
naphthalene	EC: 202-049-5 CAS: 91-20-3 Index: 601-052-00-2	≥0.3 - <0.6	Carc. Cat. 3; R40 Xn; R22 N; R50/53	Acute Tox. 4, H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	[1] [2]

See Section 16 for the full text of the R-phrases declared above.

See Section 16 for the full text of the H statements declared above.

Type

- [1] Substance classified with a health or environmental hazard  
 [2] Substance with a workplace exposure limit  
 [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII  
 [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII  
 [5] Substance of equivalent concern

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

**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. Chemical burns must be treated promptly by a physician. Get medical attention immediately.

**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 irritation develops.

**Inhalation**

Inhaled, remove to fresh air. Get medical attention if symptoms appear.

**Ingestion**

Do not induce vomiting. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Aspiration hazard if swallowed. Aspiration hazard Can enter lungs and cause damage. Get medical attention immediately.

**Protection of first-aiders**

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

**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**

Treatment should in general be symptomatic and directed to relieving any effects. Product can be aspirated on swallowing or following regurgitation of stomach contents, and can cause severe and potentially fatal chemical pneumonitis, which will require urgent treatment. Because of the risk of aspiration, induction of vomiting and gastric lavage should be avoided. Gastric lavage should be undertaken only after endotracheal intubation. Monitor for cardiac dysrhythmias.

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing media**

Use foam or all-purpose dry chemical to extinguish.

**Unsuitable extinguishing media**

Do not use water jet.

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

**Product name** Castrol TBE

**Product code** 452741-AT01 DE01 **Page:** 3/12

**Version** 3 **Date of issue** 11 February 2015

**Format** Poland  
(Poland)

**Language** ENGLISH

## SECTION 5: Firefighting measures

### Hazards from the substance or mixture

☒ In a fire or if heated, a pressure increase will occur and the container may burst. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

### Hazardous combustion products

☒ Combustion products may include the following:  
carbon oxides (CO, CO<sub>2</sub>) (carbon monoxide, carbon dioxide)  
metal oxide/oxides  
sulphur oxides (SO, SO<sub>2</sub>, etc.)

### 5.3 Advice for firefighters

#### 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. This material is harmful to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

#### 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 fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. Fire-fighters' protective clothing will only provide limited protection. Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

## 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. Do not breathe vapour or mist. Provide adequate ventilation. Put on appropriate personal protective equipment. Contact emergency personnel.

#### 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".

### 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). Water polluting material. May be harmful to the environment if released in large quantities.

### 6.3 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.

### 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. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not swallow. Never siphon by mouth. Avoid contact of spilt material and runoff with soil and surface waterways. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Do not reuse container. Empty containers retain product residue and can be hazardous. Use only with adequate ventilation. Avoid prolonged or repeated contact with skin. During metal working, solid particles from workpieces or tools will contaminate the fluid and may cause abrasions of

**SECTION 7: Handling and storage**

the skin. Where such abrasions result in a penetration of the skin, first aid treatment should be applied as soon as reasonably possible. The presence of certain metals in the workpiece or tool, such as chromium, cobalt and nickel, can contaminate the metalworking fluid and as a result may induce allergic skin reactions. Aspiration hazard if swallowed. Can enter lungs and cause damage. Keep away from ignition sources such as heat/sparks/open flame. - No smoking. Concentrations of mist, fumes and vapours in enclosed spaces may result in the formation of explosive atmospheres. Excessive splashing, agitation or heating must be avoided.

**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.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in accordance with local regulations. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Store locked up. 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. Store and use only in equipment/containers designed for use with this product. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

**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**

Product/ingredient name	Exposure limit values
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	<b>Rozporządzenie Ministra Pracy i Polityki Społecznej (Dz.U. 2014 poz. 817) (Poland).</b> TWA: 300 mg/m <sup>3</sup> 8 hours. Issued/Revised: 9/2014 STEL: 900 mg/m <sup>3</sup> 15 minutes. Issued/Revised: 9/2014
Distillates (petroleum), hydrotreated light	<b>ACGIH TLV (United States). Absorbed through skin.</b> TWA: 200 mg/m <sup>3</sup> , (as total hydrocarbon vapor) 8 hours. Issued/Revised: 1/2003
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, (2-25%) aromatics	<b>Rozporządzenie Ministra Pracy i Polityki Społecznej (Dz.U. 2014 poz. 817) (Poland).</b> STEL: 900 mg/m <sup>3</sup> 15 minutes. Issued/Revised: 9/2014 TWA: 300 mg/m <sup>3</sup> 8 hours. Issued/Revised: 9/2014
1,2,4-Trimethylbenzene	<b>Rozporządzenie Ministra Pracy i Polityki Społecznej (Dz.U. 2014 poz. 817) (Poland).</b> STEL: 170 mg/m <sup>3</sup> 15 minutes. Issued/Revised: 9/2014 TWA: 100 mg/m <sup>3</sup> 8 hours. Issued/Revised: 9/2014
naphthalene	<b>Rozporządzenie Ministra Pracy i Polityki Społecznej (Dz.U. 2014 poz. 817) (Poland).</b> STEL: 50 mg/m <sup>3</sup> 15 minutes. Issued/Revised: 9/2014 TWA: 20 mg/m <sup>3</sup> 8 hours. Issued/Revised: 9/2014

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 monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

**Derived No Effect Level**

**Product name** Castrol TBE

**Product code** 452741-AT01 DE01 **Page:** 5/12

**Version** 3 **Date of issue** 11 February 2015

**Format** Poland  
(Poland)

**Language** ENGLISH

## SECTION 8: Exposure controls/personal protection

No DNELs/DMELs available.

### Predicted No Effect Concentration

No PNECs available

## 8.2 Exposure controls

### Appropriate engineering controls

Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations 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

Use with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Recommended: half-face mask - organic vapor filter (Type A). 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

Chemical splash goggles.

#### Skin protection

##### Hand protection

#### General Information:

Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. The correct choice of protective gloves depends upon the chemicals being handled, and the conditions of work and use. Most gloves provide protection for only a limited time before they must be discarded and replaced (even the best chemically resistant gloves will break down after repeated chemical exposures).

Gloves should be chosen in consultation with the supplier / manufacturer and taking account of a full assessment of the working conditions.

Recommended: Nitrile gloves.

#### Breakthrough time:

Breakthrough time data are generated by glove manufacturers under laboratory test conditions and represent how long a glove can be expected to provide effective permeation resistance. It is important when following breakthrough time recommendations that actual workplace conditions are taken into account. Always consult with your glove supplier for up-to-date technical information on breakthrough times for the recommended glove type. Our recommendations on the selection of gloves are as follows:

Continuous contact:

Gloves with a minimum breakthrough time of 240 minutes, or >480 minutes if suitable gloves can be obtained.

If suitable gloves are not available to offer that level of protection, gloves with shorter breakthrough times may be acceptable as long as appropriate glove maintenance and replacement regimes are determined and adhered to.

Short-term / splash protection:

Recommended breakthrough times as above.

It is recognised that for short-term, transient exposures, gloves with shorter breakthrough times may commonly be used. Therefore, appropriate maintenance and replacement regimes must be determined and rigorously followed.

#### Glove Thickness:

**Product name** Castrol TBE

**Product code** 452741-AT01 DE01 **Page:** 6/12

**Version** 3 **Date of issue** 11 February 2015

**Format** Poland **Language** ENGLISH  
(Poland)



**SECTION 8: Exposure controls/personal protection**

For general applications, we recommend gloves with a thickness typically greater than 0.35 mm.

It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times.

Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers' technical data should always be taken into account to ensure selection of the most appropriate glove for the task.

Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example:

- Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of.

- Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential.

**Skin and body**

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.

Wear clothing and footwear that cannot be penetrated by chemicals or oil.

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.

**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	Yellow. [Light]
Odour	Characteristic.
Odour threshold	Not available.
pH	Not available.
Melting point/freezing point	-20°C (<-4°F)
Initial boiling point and boiling range	150°C (>302°F)
Flash point	Closed cup: 66°C (150.8°F) [Estimated.]
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	Not available.
Density	830 kg/m³ (0.83 g/cm³) at 20°C
Solubility(ies)	Insoluble in water.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Kinematic: <7 mm²/s (<7 cSt) at 40°C
Explosive properties	Not available.

Product name Castrol TBE

Product code 452741-AT01 DE01 Page: 7/12

Version 3 Date of issue 11 February 2015

Format Poland  
(Poland)

Language ENGLISH

**SECTION 9: Physical and chemical properties**

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

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

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

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

**SECTION 11: Toxicological information****11.1 Information on toxicological effects**Acute toxicity estimates

Route	ATE value
<input checked="" type="checkbox"/> Inhalation (dusts and mists)	133.3 mg/l

**Information on the likely routes of exposure** ☒ Routes of entry anticipated: Dermal, Inhalation.

Potential acute health effects

**Inhalation** ☒ May give off gas, vapour or dust that is very irritating or corrosive to the respiratory system.

**Ingestion** ☒ Aspiration hazard if swallowed -- harmful or fatal if liquid is aspirated into lungs. Ingestion of large quantities may cause nausea and diarrhoea.

**Skin contact** ☒ Defatting to the skin. May cause skin dryness and irritation.

**Eye contact** ☒ Causes serious eye damage.

Symptoms related to the physical, chemical and toxicological characteristics

**Inhalation** ☒ Exposure to high concentrations can cause dizziness, lightheadedness, headache, nausea and blurred vision. Higher levels may cause unconsciousness.  
May be harmful by inhalation if exposure to vapour, mists or fumes resulting from thermal decomposition products occurs.

**Ingestion** ☒ Adverse symptoms may include the following:  
stomach pains  
nausea or vomiting

**Skin contact** ☒ Adverse symptoms may include the following:  
pain or irritation  
redness  
dryness  
cracking  
blistering may occur

**Eye contact** ☒ Adverse symptoms may include the following:  
pain  
watering  
redness

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

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

**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

**Product name** Castrol TBE

**Product code** 452741-AT01 DE01 **Page:** 8/12

**Version** 3 **Date of issue** 11 February 2015

**Format** Poland  
(Poland)

**Language** ENGLISH



**SECTION 11: Toxicological information**

<b>General</b>	<input checked="" type="checkbox"/> No known significant effects or critical hazards.
<b>Carcinogenicity</b>	<input checked="" type="checkbox"/> This material may contain greater than 0.1% naphthalene. Naphthalene has been evaluated for carcinogenicity in laboratory rodents in studies sponsored by the National Toxicology Program (NTP). Results of these studies show some evidence of carcinogenic activity in female mice, and clear evidence of carcinogenic activity in male and female rats. Tumors were observed in the lung for female mice in the nose for rats. Nonneoplastic lesions of the nose and respiratory tract were also observed in these studies. Naphthalene has been reported to cause developmental toxicity in mice, but developmental toxicity was not observed in NTP sponsored studies in rats and rabbits. Ingestion or inhalation of naphthalene can result in hemolysis and other blood abnormalities, and individuals (and infants) deficient in glucose-6-phosphatase dehydrogenase may be especially susceptible to these effects. Inhalation of naphthalene may cause headache and nausea. Airborne exposure can result in eye irritation. Naphthalene exposure has been associated with cataracts in animals and humans.
<b>Mutagenicity</b>	<input checked="" type="checkbox"/> No known significant effects or critical hazards.
<b>Developmental effects</b>	<input checked="" type="checkbox"/> No known significant effects or critical hazards.
<b>Fertility effects</b>	<input checked="" type="checkbox"/> No known significant effects or critical hazards.

**SECTION 12: Ecological information****12.1 Toxicity**

**Environmental hazards** ☒ Harmful to aquatic life with long lasting effects.

**12.2 Persistence and degradability**

☒ Expected to be 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 coefficient ( $K_{oc}$ )** ☒ Not available.

**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 information** ☒ Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Product**

**Methods of disposal** ☒ Where possible, arrange for product to be recycled. Dispose of via an authorised person/ licensed waste disposal contractor in accordance with local regulations.

**Hazardous waste** ☒ Yes.

**European waste catalogue (EWC)**

Waste code	Waste designation
07 01 04*	other organic solvents, washing liquids and mother liquors

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** ☒ Where possible, arrange for product to be recycled. Dispose of via an authorised person/ licensed waste disposal contractor in accordance with local regulations.

**SECTION 13: Disposal considerations****Special precautions**

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. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. 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.

**SECTION 14: Transport information**

	ADR/RID	ADN	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.
Additional information				The environmentally hazardous substance mark may appear if required by other transportation regulations.

14.6 Special precautions for user Not available.

**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 Not applicable.

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)**

At least one component is not listed.

**Australia inventory (AICS)**

At least one component is not listed.

**Canada inventory**

At least one component is not listed.

**China inventory (IECSC)**

At least one component is not listed.

**Japan inventory (ENCS)**

At least one component is not listed.

**Korea inventory (KECI)**

At least one component is not listed.

**Philippines inventory (PICCS)**

At least one component is not listed.

**Taiwan inventory (CSNN)**

Not determined.

Product name Castrol TBE

Product code 452741-AT01 DE01 Page: 10/12

Version 3 Date of issue 11 February 2015

Format Poland  
(Poland)

Language ENGLISH

**SECTION 15: Regulatory information****References**


Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006. concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency (OJ. EU L 396 of 30 December 2006. and correcting Acts. Office. EU L 136 of 29 May 2007. with later. amended).

Commission Regulation (EU) No 453/2010 of 20 May 2010. amending Regulation (EC) No 1907/2006 of the Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Act of 25 February 2011. chemical substances and mixtures (OJ U.11.63.322)

Regulation of the Minister of Health of 10 August 2012 on the criteria and classification of chemical substances and their mixtures (Journal of Laws 2012, item 1018)


**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 = 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  
 EWC = European Waste Catalogue  
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 IATA = International Air Transport Association  
 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**

 226 Flammable liquid and vapour.  
 H302 Harmful if swallowed.  
 H304 May be fatal if swallowed and enters airways.  
 H315 Causes skin irritation.  
 H318 Causes serious eye damage.  
 H319 Causes serious eye irritation.  
 H332 (inhalation) Harmful if inhaled.  
 H335 May cause respiratory irritation.  
 H336 May cause drowsiness or dizziness.  
 H351 Suspected of causing cancer.  
 H400 Very toxic to aquatic life.  
 H410 Very toxic to aquatic life with long lasting effects.  
 H411 Toxic to aquatic life with long lasting effects.

**Product name** Castrol TBE

**Product code** 452741-AT01 DE01 **Page:** 11/12


**Version** 3 **Date of issue** 11 February 2015

**Format** Poland  
(Poland)

**Language** ENGLISH

**SECTION 16: Other information****Full text of classifications  
[CLP/GHS]**

H412


 Acute Tox. 4, H302  
 Acute Tox. 4, H332  
 Aquatic Acute 1, H400  
 Aquatic Chronic 1, H410  
 Aquatic Chronic 2, H411  
 Aquatic Chronic 3, H412  
 Asp. Tox. 1, H304  
 Carc. 2, H351  
 Eye Dam. 1, H318  
 Eye Irrit. 2, H319  
 Flam. Liq. 3, H226  
 Skin Irrit. 2, H315  
 STOT SE 3, H335

STOT SE 3, H336


Harmful to aquatic life with long lasting effects.

ACUTE TOXICITY (oral) - Category 4  
 ACUTE TOXICITY (inhalation) - Category 4  
 ACUTE AQUATIC HAZARD - Category 1  
 LONG-TERM AQUATIC HAZARD - Category 1  
 LONG-TERM AQUATIC HAZARD - Category 2  
 LONG-TERM AQUATIC HAZARD - Category 3  
 ASPIRATION HAZARD - Category 1  
 CARCINOGENICITY - Category 2  
 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1  
 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2  
 FLAMMABLE LIQUIDS - Category 3  
 SKIN CORROSION/IRRITATION - Category 2  
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)  
 (Respiratory tract irritation) - Category 3  
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)  
 (Narcotic effects) - Category 3

**Full text of abbreviated R  
phrases**

 R10- Flammable.  
 R40- Limited evidence of a carcinogenic effect.  
 R20- Harmful by inhalation.  
 R22- Harmful if swallowed.  
 R65- Harmful: may cause lung damage if swallowed.  
 R41- Risk of serious damage to eyes.  
 R36- Irritating to eyes.  
 R37- Irritating to respiratory system.  
 R38- Irritating to skin.  
 R36/37/38- Irritating to eyes, respiratory system and skin.  
 R66- Repeated exposure may cause skin dryness or cracking.  
 R67- Vapours may cause drowsiness and dizziness.  
 R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
 R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
 R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Full text of classifications  
[DSD/DPD]**

 Carc. Cat. 3 - Carcinogen category 3  
 Xn - Harmful  
 Xi - Irritant  
 N - Dangerous for the environment

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**Prepared by**

Product Stewardship Group

 Indicates information that has changed from previously issued version.**Notice to reader**

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