



# MATERIAL SAFETY DATA SHEET

according to regulation (EC) No. 1907/2006 (REACH)

**Product Name:** Formula E High Performance Fuel Economy Motor Oil 5W-3 **Page:** 1/6  
**Ford Internal Ref.:** 161452 **Last Revised Date:** 10.03.08  
**Version:** GB/EN-F-05 **Print Date:** 10.03.08

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

**Product Name:** Formula E High Performance Fuel Economy Motor Oil 5W-30  
**Application:** Semi synthetic oil for vehicle engines.  
**Container Size:** 1 l, 1000 l, 20 l, 208 l, 5 l, Bulk  
**Supplier:** Ford Motor Company Ltd., Parts Distribution Centre, Royal Oak Way South, Daventry, Northants, NN 11 5NT, U.K., Tel. 01327 305 305

Responsible for safety data sheet authoring: Ford\_SDS\_info@dhigroup.com

## 2. HAZARDS IDENTIFICATION

The product is not classified.

**Man:** Prolonged or repeated contact with skin may cause redness, itching, irritation, eczema, skin cracking and oil acne. Degreasing to skin. The harmful effects may increase in used oil. The product contains a small amount of a sensitising substance, which may provoke an allergic reaction among sensitive individuals.

**Environment:** Oil spills are generally hazardous to the environment. The product contains a substance, which may cause long term adverse effects in the aquatic environment.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

The product contains: mineral oil and additives.

<u>Chemical name</u>	<u>CAS-number</u>	<u>EINECS No./ ELINCS No.</u>	<u>%</u>	<u>Hazard classification</u>
Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, C7-9-branched alkyl esters	125643-61-0	406-040-9	1-5	R53
Calcium long chain alkaryl sulphonate	-		0,1-<1,0	R43

## 4. FIRST-AID MEASURES

**Inhalation:** Move into fresh air and keep at rest. In case of persistent throat irritation or coughing or after inhalation of oil mist: Seek medical attention and bring along these instructions.

**Skin contact:** Remove contaminated clothing immediately and wash skin with soap and water. In case of rashes, wounds or other skin disorders: Seek medical attention and bring along these instructions.

**Eye contact:** Flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Seek medical attention and bring along these instructions.

**Ingestion:** Immediately rinse mouth and drink plenty of water. Keep person under observation. If uncomfortable: Seek hospital and bring along these instructions.



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## 5. FIRE-FIGHTING MEASURES

Extinguishing media: Small fires: Extinguish with carbon dioxide or dry powder.  
Larger fires: Extinguish with foam, carbon dioxide or dry powder. Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards: During fire, gases hazardous to health may be formed (CO, CO<sub>2</sub>).

Protective equipment for fire-fighters: Besides general fire fighting equipment no special equipment is required for this product.

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## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid inhalation of oil mist and contact with skin and eyes. In case of spills, beware of slippery floors and surfaces. For personal protection, see point 8.

Environmental precautions: Do not discharge into drains, water courses or onto the ground.

Methods for cleaning up: Absorb spillage with oil-absorbing material. (vermiculite, dry sand) Clean contaminated area with oil-removing material. For waste disposal, see point 13.

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## 7. HANDLING AND STORAGE

Safe handling advice: Observe good industrial hygiene practices. Avoid contact with skin and eyes. Avoid prolonged and repeated contact with oil, particularly used oil. Always remove oil with soap and water or skin cleaning agent, never use organic solvents. Do not use oil-contaminated clothing or shoes, and do not put rags moistened with oil into pockets.

Technical measures: Use work methods which minimise oil mist production. Avoid exposure to temperatures above the flash point.

Technical precautions: When working with heated oil, mechanical ventilation may be required.

Technical measures for safe storage: No special precautions.

Storage conditions: Store in closed original container at temperatures between 5°C and 30°C. Store separate from oxidising agents (eg. peroxides).

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical name	Exposure limits		Notes	References
	mg/m <sup>3</sup>	ppm		
Oil mist, mineral	5 (8 hours)			WEL 2007

Engineering measures: Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours and oil mist. Provide access to washing facilities incl. soap, skin cleanser and fatty cream.

Personal protection: Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment (EN 166, EN 374, EN 14387).

Respiratory equipment: In case of inadequate ventilation or risk of inhalation of oil mist, suitable respiratory equipment with combination filter (type A2/P3) can be used.

Hand protection: Full contact:  
Glove material: Nitrile  
Layer thickness: 0,4 mm  
Breakthrough time: >= 480 min  
Glove recommendation: Camatril Velours® 730 (Kächele-Cama GmbH, source of supply see [www.kcl.de](http://www.kcl.de)) or comparable product.

Splash contact:  
Glove material: Nitrile  
Layer thickness: 0,4 mm  
Breakthrough time: >= 480 min  
Glove recommendation: Camatril Velours® 730 (Kächele-Cama GmbH, source of supply see [www.kcl.de](http://www.kcl.de)) or comparable product.

The protective gloves to be used must comply with the specification of EU directive 89/686/EC and the resultant standard EN374. The above given information is based on laboratory test in line with EN374.

The recommendation is only valid for the supplied product and the stated application. Special working conditions, like heat or mechanical strain, which deviate from the test conditions, can reduce the protective effect provided by the recommended glove.

Eye protection: Risk of contact: Wear goggles/face shield.

Skin protection: Wear apron or protective clothing in case of splashes.

Hygiene measures: Wash hands after contact. Wash contaminated clothing before reuse.



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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	liquid
Colour:	amber
Odour:	oil smell
pH:	**
Boiling point:	**
Flash point:	226°C
Explosion limits:	**
Density:	0,852 g/cm <sup>3</sup>
Solubility:	insoluble in water
Viscosity:	Kinematic viscosity at 40°C: >7 mm <sup>2</sup> /s

\* = Not relevant    \*\* = not available

## 10. STABILITY AND REACTIVITY

Stability: Stable at a temperature below 50°C.

Conditions/ materials to avoid: Oxidising agents (eg. peroxides).

Hazardous decomposition products: None in particular.

## 11. TOXICOLOGICAL INFORMATION

The harmful effects may increase in used oil.

Inhalation: Inhalation of oil mist or vapours formed during heating of the product will irritate the respiratory system and provoke coughing.

Skin contact: Degreasing. Prolonged or frequent contact may cause redness, itching, irritation, eczema, skin cracking and oil acne. The product contains a small amount of a sensitising substance, which may provoke an allergic reaction among sensitive individuals.

Eye contact: Splashes may irritate.

Ingestion: May irritate and cause malaise.

Specific effects: Prolonged or repeated contact with used oil may cause serious skin diseases, such as dermatitis and skin cancer.



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## 12. ECOLOGICAL INFORMATION

**Mobility:** The product is not miscible with water and will spread on the water surface. The product is non-volatile.

**Persistence/Degradability:** The product is expected to be slowly biodegradable.

**Ecotoxicity:** Oil spills are generally hazardous to the environment. The product contains a substance, which may cause long term adverse effects in the aquatic environment.

**Bioaccumulative potential:** No data available on bioaccumulation.

**Other adverse effects:** None known.

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## 13. DISPOSAL CONSIDERATIONS

National and regional procedures for disposal of waste may vary. Dispose of spillages and waste according to agreement with local authorities.

**Spillage/Used Product:** EWC-code: 130205\*  
EWC-code: 200126\*

\* = hazardous waste

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## 14. TRANSPORT INFORMATION

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

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## 15. REGULATORY INFORMATION

Based on information from the manufacturer regarding the chemical composition, the product is not liable to classification, but the following labelling must be applied:

Safety data sheet available for professional user on request.

Contains: Calcium long chain alkaryl sulphonate. May produce an allergic reaction.

### National regulations:

- 1) 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, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.
  - 2) The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002 (S.I 2002 No. 1689), with amendments.
  - 3) The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677).
  - 4) Workplace Exposure Limits (WEL) EH40/2005, with amendments (2007).
  - 5) The List of Wastes (England) Regulations 2005 (S.I 2005 No. 895), (Amendment S.I 2005 No. 1673).
  - 6) Directives 67/548/EEC on dangerous substances (up to and inclusive of the 29th adaptation) and 1999/45/EC on dangerous preparations.
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## 16. OTHER INFORMATION

The user must be instructed in the proper work procedure and be familiar with the contents of these instructions.

Caution! Handling of used oils:

Protect health - avoid prolonged and repeated skin contact. Wash with soap and water. Protect the environment - do not pollute drains, water courses or the soil. Contact your local authority for any used oil disposal instructions.

Wording of the risk phrases:

R43 May cause sensitisation by skin contact.

R53 May cause long-term adverse effects in the aquatic environment.

The following sections contain revisions or new statements: 1, 2, 3, 7, 8, 9, 11, 15, 16

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The information on this data sheet represents our current data and is accurate to the best of our knowledge as to the proper handling of this product under normal conditions and in accordance with the application specified on the packaging and/or technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.

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# ATTACHMENT TO THE MATERIAL SAFETY DATA SHEET

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**Involved Products:**

1	1 343 791	4U7J M2C913 A8AA	1 l
2	1 343 795	4U7J M2C913 D8AA	5 l
3	1 343 798	4U7J M2C913 E8AA	20 l
4	1 343 800	4U7J M2C913 J8AA	Bulk
5	1 343 801	4U7J M2C913 K8AA	1000 l
6	1 343 802	4U7J M2C913 M8AA	208 l

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