



SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

SDS # : 081999

EVOLUTION 700 ST 10W-40

Date of the previous version: not applicable

Revision Date: 2013-10-25

Version 1

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|---|
| 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING |
|---|

1.1. Product identifier

| | |
|-------------------------------|--------------------------------|
| Product name | EVOLUTION 700 ST 10W-40 |
| Number | BV4 |
| Pure substance/mixture | Mixture |

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

| | |
|------------------------|------------|
| Identified uses | Motor oil. |
|------------------------|------------|

1.3. Details of the supplier of the safety data sheet

| | |
|-----------------|--|
| Supplier | TOTAL UK LIMITED One Euston Square 40 Melton Street. London. NW1 2FD UNITED KINGDOM Tel: +44 (0)20 7339 8000 Fax: +44 (0)20 7339 8033 |
|-----------------|--|

For further information, please contact:

| | |
|-----------------------|--|
| Contact Point | Specific Product Related Info : 01977 636200 |
| E-mail Address | rm.gb-msds@total.co.uk |

1.4. Emergency telephone number

+33 1 49 00 00 49 (24h/24, 7d/7)
Total UK - + 44 (0) 20 7339 8000
For bitumen only : Total Bitumen --+44 (0) 17 7272 9302

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| 2. HAZARDS IDENTIFICATION |
|----------------------------------|

2.1. Classification of the substance or mixture**REGULATION (EC) No 1272/2008***For the full text of the H-Statements mentioned in this Section, see Section 2.2.***DIRECTIVE 67/548/EEC or 1999/45/EC***For the full text of the R-phrases mentioned in this Section, see Section 16.*



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The substance/mixture is non-dangerous in accordance with Directive(s) 67/548/EEC with amendments and/or 1999/45/EC with amendments

Symbol(s)
Not classified

2.2. Label elements

Labelled according to Directive 1999/45/EC

R-phrase(s)
None

S-phrase(s)
None
Contains Calcium long chain alkarylsulphonate. May produce an allergic reaction.

Safety data sheet available on request.

2.3. Other hazards

Physical-Chemical Properties Contaminated surfaces will be extremely slippery.

Environmental properties Should not be released into the environment.

| |
|--|
| 3. COMPOSITION/INFORMATION ON INGREDIENTS |
|--|

3.2. Mixture

| Chemical Name | EC-No | REACH Registration Number | CAS-No | Weight % | Classification (Dir. 67/548) | GHS Classification |
|--|-----------|---------------------------------|-------------|----------|---------------------------------|---|
| Polyolefin polyamine succinimide, polyol | - | no data available | ^ | < 3 | R53 | Aquatic Chronic 4 (H413) |
| Zinc alkyldithiophosphate | 272-028-3 | no data available | 68649-42-3 | < 1.5 | Xi;R41 N;R51-53 | Eye Dam. 1 (H318) Aquatic Chronic 2 (H411) |
| Calcium long chain alkarylsulphonate | - | - | 722503-69-7 | < 1.5 | R53 | Aquatic Chronic 4 (H413) |

Additional information Product containing mineral oil with less than 3% DMSO extract as measured by IP 346

For the full text of the R-phrases mentioned in this Section, see Section 16.
For the full text of the H-Statements mentioned in this Section, see Section 16.



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4. FIRST AID MEASURES

4.1. Description of first aid measures

| | |
|-----------------------|---|
| General advice | IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE. |
| Eye contact | Rinse thoroughly with plenty of water, also under the eyelids. |
| Skin contact | Remove contaminated clothing and shoes. Wash off with soap and water. Wash contaminated clothing before reuse. |
| Inhalation | Move to fresh air. |
| Ingestion | Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or poison control centre immediately. |

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

| | |
|---------------------|---|
| Eye contact | Not classified. |
| Skin contact | Not classified. May produce an allergic reaction. |
| Inhalation | Not classified. Inhalation of vapours in high concentration may cause irritation of respiratory system. |
| Ingestion | Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. |

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

| | |
|---------------------------|------------------------|
| Notes to physician | Treat symptomatically. |
|---------------------------|------------------------|

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

| | |
|---------------------------------------|--|
| Suitable extinguishing media | Carbon dioxide (CO ₂). ABC powder. Foam. Water spray or fog. |
| Unsuitable Extinguishing Media | Do not use a solid water stream as it may scatter and spread fire. |

5.2. Special hazards arising from the substance or mixture

| | |
|-----------------------|--|
| Special hazard | Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration. |
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5.3. Precautions for fire-fighters



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Special protective equipment for fire-fighters Wear self-contained breathing apparatus and protective suit.

Other information Cool containers / tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

General Information Do not touch or walk through spilled material. Contaminated surfaces will be extremely slippery. Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition.

6.2. Environmental precautions

General Information Do not allow material to contaminate ground water system. Try to prevent the material from entering drains or water courses. Local authorities should be advised if significant spillages cannot be contained.

6.3. Methods and materials for containment and cleaning up

Methods for cleaning up Dam up. Contain spillage, and then collect with non-combustable absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.

6.4. Reference to other sections

Personal protective equipment See Section 8 for more detail.

Waste treatment See section 13.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling When using, do not eat, drink or smoke. For personal protection see section 8. Use only in well-ventilated areas. Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing.

Prevention of fire and explosion Take precautionary measures against static discharges: Ground/bond containers, tanks and transfer/receiving equipment.



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Hygiene measures

Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions

Keep away from food, drink and animal feedingstuffs. Keep in a bunded area. Keep container tightly closed. Preferably keep in the original container. Otherwise, reproduce all the statutory information from the labels onto the new container. Do not remove the hazard labels of the containers (even if they are empty). Design the installations in order to avoid accidental emissions of product (due to seal breakage, for example) onto hot casings or electrical contacts. Protect from frost, heat and sunlight. Protect from moisture.

Materials to avoid

Strong oxidising agents.

7.3. Specific use(s)

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parametres

Exposure limits

oil mist : 10mg/m³, for 15 minutes oil mist : 5mg/m³, for 8 hours

Legend

See section 16

8.2. Exposure controls

Occupational Exposure Controls

Engineering measures

Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

Personal protective equipment

General Information

If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers. These recommendations apply to the product as supplied.

Respiratory protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Respirator with combination filter for vapour/particulate (EN 14387). The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their choices and uses.

Eye protection

If splashes are likely to occur, wear: Safety glasses with side-shields.

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| Skin and body protection | Wear suitable protective clothing. Protective shoes or boots. Long sleeved clothing. |
| Hand protection | Hydrocarbon-proof gloves: Fluorinated rubber, Nitrile rubber. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves. |

Environmental exposure controls

General Information The product should not be allowed to enter drains, water courses or the soil.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| | |
|-----------------------------|--------------------------|
| Appearance | Clear |
| Colour | yellow |
| Physical state @20°C | Liquid |
| Odour | No information available |

| <u>Property</u> | <u>Values</u> | <u>Remarks</u> | <u>Method</u> |
|------------------------------------|---|--------------------------|-----------------------|
| pH | | not applicable | |
| Boiling point/boiling range | | not applicable | |
| Flash point | 234 °C 453 °F | | Open cup Open cup. |
| Evaporation rate | | No information available | |
| Flammability Limits in Air | | No information available | |
| Vapour pressure | | No information available | |
| Vapour density | | No information available | |
| Density | 863 kg/m ³ | @ 15 °C | |
| Water solubility | | Insoluble | |
| Solubility in other solvents | | No information available | |
| logPow | | No information available | |
| Autoignition Temperature | | not applicable | |
| Viscosity, kinematic | 100.9 mm ² /s 15 mm ² /s | @ 40 °C @ 100 °C | ISO 3104 ISO 3104 |
| Explosive properties | Not explosive | | |
| Oxidising Properties | not applicable | | |
| Possibility of hazardous reactions | not applicable | | |

9.2. Other information

10. STABILITY AND REACTIVITY



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10.1. Reactivity

General Information No information available.

10.2. Chemical stability

Stability Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions None under normal processing.

10.4. Conditions to Avoid

Conditions to Avoid Heat (temperatures above flash point), sparks, ignition points, flames, static electricity.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents.

10.6. Hazardous Decomposition Products

Hazardous Decomposition Products None under normal use.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity Local effects Product Information

Skin contact . Not classified. May produce an allergic reaction.

Eye contact . Not classified.

Inhalation . Not classified. Inhalation of vapours in high concentration may cause irritation of respiratory system.

Ingestion . Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Acute toxicity - Component Information

| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|---------------------------|-----------------------|----------------------------|-----------------|
| Zinc alkyldithiophosphate | LD50 2900 mg/kg (Rat) | LD50 > 2000 mg/kg (Rabbit) | |

Sensitisation



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Sensitisation Not classified as a sensitizer. Contains sensitizer(s). May produce an allergic reaction.

Specific effects

Carcinogenicity This product is not classified carcinogenic. During use in engines, contamination of oil with low levels of combustion products occurs. Used motor oils have been shown to cause skin cancer in mice following repeated application and continuous exposure. Brief or intermittent skin contact with used motor oil is not expected to have serious effects in humans if the oil is thoroughly removed by washing with soap and water.

Mutagenicity This product is not classified as mutagenic.
Reproductive toxicity This product does not present any known or suspected reproductive hazards.
Repeated Dose Toxicity

Subchronic Toxicity No information available.

Target Organ Effects (STOT)

Target Organ Effects (STOT) No information available.

Other information

Other adverse effects Characteristic skin lesions (oil blisters) may develop following prolonged and repeated exposures (contact with contaminated clothing).

12. ECOLOGICAL INFORMATION**12.1. Toxicity**

Not classified.

Acute aquatic toxicity - Product Information

No information available.

Acute aquatic toxicity - Component Information

| Chemical Name | Toxicity to algae | Toxicity to daphnia and other aquatic invertebrates. | Toxicity to fish | Toxicity to microorganisms |
|---|---------------------|--|---------------------|----------------------------|
| Zinc alkyldithiophosphate 68649-42-3 | EC50 (72h) 2.2 mg/l | EC50 (48h) 1.2 mg/l (Daphnia magna) | LC50 (96h) 4.5 mg/l | |

Chronic aquatic toxicity - Product Information

No information available.

Chronic aquatic toxicity - Component Information

No information available.

| Chemical Name | Toxicity to algae | Toxicity to daphnia and other aquatic invertebrates. | Toxicity to fish | Toxicity to microorganisms |
|---|-------------------|--|--------------------|----------------------------|
| Zinc alkyldithiophosphate 68649-42-3 | NOEC 1.0 mg/l | NOEC (21d) 0.4 mg/l (Daphnia magna) | NOEC(28d) 1.8 mg/l | |



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Effects on terrestrial organisms

No information available.

12.2. Persistence and Degradability**General Information**

No information available.

12.3. Bioaccumulative potential**Product Information**

No information available.

logPow

No information available

Component Information

| Chemical Name | log Pow |
|--|---------|
| Zinc alkyldithiophosphate - 68649-42-3 | 0.56 |

12.4. Mobility in soil**Soil**

Given its physical and chemical characteristics, the product generally shows low soil mobility.

Air

Loss by evaporation is limited.

Water

Insoluble. The product spreads on the surface of the water.

12.5. Results of PBT and vPvB assessment**PBT and vPvB assessment**

No information available.

12.6. Other adverse effects**General Information**

No information available.

13. DISPOSAL CONSIDERATIONS13.1. Waste treatment methods**Waste from residues / unused products**

Should not be released into the environment. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations. Where possible recycling is preferred to disposal or incineration. After use, this oil must be sent to a licensed waste oil facility. Incorrect disposal of used oil poses a risk to the environment. Mixture with other waste types such as solvents, brake- and cooling liquids is forbidden.



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| Contaminated packaging | Empty containers should be taken to an approved waste handling site for recycling or disposal. |
| EWC Waste Disposal No | The following Waste Codes are only suggestions: 13 02 05. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used. |

14. TRANSPORT INFORMATION

| | |
|------------------|---------------|
| <u>ADR/RID</u> | not regulated |
| <u>IMDG/IMO</u> | not regulated |
| <u>ICAO/IATA</u> | not regulated |
| <u>ADN</u> | not regulated |

15. REGULATORY INFORMATION

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

European Union

International Inventories

| | |
|----------------------|---|
| EINECS/ELINCS | - |
| TSCA | - |
| DSL | - |
| ENCS | - |
| IECSC | - |
| KECL | - |
| PICCS | - |
| AICS | - |
| NZIoC | - |
| Legend | |

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List**ENCS** - Japan Existing and New Chemical Substances**IECSC** - China Inventory of Existing Chemical Substances**KECL** - Korean Existing and Evaluated Chemical Substances**PICCS** - Philippines Inventory of Chemicals and Chemical Substances**AICS** - Australian Inventory of Chemical Substances



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NZIoC - New Zealand Inventory of Chemicals

Further information

15.2. Chemical Safety Assessment

Chemical Safety Assessment No information available

15.3. National regulatory information

The United Kingdom

- Avoid exceeding occupational exposure limits (see section 8).

Ireland

- Avoid exceeding occupational exposure limits (see section 8).

16. OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3

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

R41 - Risk of serious damage to eyes

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Full text of H-Statements referred to under sections 2 and 3

H318 - Causes serious eye damage

H411 - Toxic to aquatic life with long lasting effects

H413 - May cause long lasting harmful effects to aquatic life

Abbreviations, acronyms

Legend Section 8

| | | | |
|----|--------------------|----|-----------------------|
| + | Sensitiser | * | Skin designation |
| ** | Hazard Designation | C: | Carcinogen |
| M: | Mutagen | R: | Toxic to reproduction |

Revision Date: 2013-10-25

Revision Note *** Indicates updated section.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006



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This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.

End of Safety Data Sheet