

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

SDS # : 081984

EVOLUTION FULLTECH LSX 5W-40

Date of the previous version: 201	3-06-13 Revisi	on Date: 2015-04-20	Version 2		
Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING					
1.1. Product identifier					
Product name Number Substance/mixture	EVOLUTION FULLTECH L BUO Mixture	SX 5W-40			
1.2. Relevant identified us	es of the substance or	mixture and uses advised against			
Identified uses	Motor oil.				
1.3. Details of the supplie	of the safety data she	eet			
Supplier	TOTAL LUBRIFIANTS 562 Avenue du Parc de L'ile 92029 Nanterre Cedex Tél: +33 (0)1 41 35 40 00 Fax: +33 (0)1 41 35 84 71***				

For further information, please contact:

Contact Point	HSE***
E-mail Address	rm.msds-lubs@total.com***

1.4. Emergency telephone number

+33 1 49 00 00 49 (24h/24, 7d/7)***

France - ORFILA (INRS) Tél : +33 (0)1 45 42 59 59*** In France : - PARIS : Hôpital Fernand Widal 200, rue du Faubourg Saint-Denis 75475 Paris Cédex 10 , Tel : 01.40.05.48.48. -MARSEILLE : Hopital Salvator, 249 bd Ste Marguerite 13274 Marseille cedex 5, Tel : 04.91.75.25.25. - LYON : Hopital Edouard Herriot, 5 place d'Arsonvol, 69437 Lyon cedex 3, Tel : 04.72.11.69.11. - NANCY : Hopital central, 29 Av du Mal De Lattre de Tassigny, 54000 Nancy, Tel : 03.83.32.36.36 ou le SAMU : Tel (15)***

Section 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.***

Classification***

The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008*** Serious eye damage/eye irritation - Category 2*** - (H319)***



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DIRECTIVE 67/548/EEC or 1999/45/EC

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

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

REGULATION (EC) No 1272/2008***



Signal Word WARNING***

Hazard Statements *** H319 - Causes serious eye irritation***

Precautionary Statements P280 - Wear eye protection/ face protection***

2.3. Other hazards

Physical-Chemical Properties

Contaminated surfaces will be extremely slippery.***

Environmental properties

Should not be released into the environment.***

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixture***

Hazardous ingredients		***				
Chemical Name	EC-No	REACH registration No	CAS-No	Weight %	Classification (Dir. 67/548)	Classification (Reg. 1272/2008)
zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)***	298-577-9	01-2119543726-33	93819-94-4	<2.4	Xi;R38-41 N;R51-53	Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 2 (H411)



Additional information

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Revision Date: 2015-04-20 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.

Section 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. Rinse immediately with plenty of water and seek medical advice. Keep eye wide open while rinsing.***	
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 Center immediately.	
4.2. Most important sympto	oms and effects, both acute and delayed	
Eye contact	Causes serious eye irritation.***	
Skin contact	Not classified.	
Inhalation	Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system.***	
Ingestion	Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.***	
4.3. Indication of immediat	e medical attention and special treatment needed, if necessary	

Treat symptomatically.*** Notes to physician

Section 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

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Special Hazard	Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These mabe highly dangerous if inhaled in confined spaces or at high concentration.***		
5.3. Advice for fire-fighter	<u>s</u>		
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.***		
Section 6: ACCIDENTAL RE	ELEASE 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 precau	utions		
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 materia	Is for containment and cleaning up		
Methods for cleaning up	Dam up. Contain spillage, and then collect with non-combustible 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 se	ections		
Personal Protective Equipment	See Section 8 for more detail.		
Waste treatment	See section 13.		
Section 7: HANDLING AND	STORAGE		
7.1. Precautions for safe h	nandling		
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 vapors or spray mist. Avoid contact with skin, eyes and clothing.***		



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Prevention of fire and explosion	Take precautionary measures against static discharges. Ground/bond contain and transfer/receiving equipment.	iers, tanks	
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 st	orage, including any incompatibilities		
Technical measures/Storage conditions	Keep away from food, drink and animal feedingstuffs. Keep in a bunded area. container tightly closed. Keep preferably in the original container. Otherwise reindication of the regulation label on the new container. Do not remove the haze the containers (even if they are empty). Design the installations in order to ave emissions of product (due to seal breakage, for example) onto hot casings or contacts. Protect from frost, heat and sunlight. Protect from moisture.***	eproduce all ard labels of bid accidental	
Materials to Avoid	Strong oxidizing agents.***		
7.3. Specific end uses			
Specific use(s)	No information available.***		
Section 8: EXPOSURE CON	TROLS/PERSONAL PROTECTION		
8.1. Control parameters			
Exposure limits	Mineral oil mist: USA: OSHA (PEL) TWA 5 mg/m³, NIOSH (REL) TWA 5 mg/m³, STEL 10 mg/r (TLV) TWA 5 mg/m³ (highly refined)***	n³, ACGIH	

Legend

See section 16

DNEL Worker (Industrial/Professional)

Chemical Name	Short term, systemic effects	Short term, local effects	Long term, systemic effects	Long term, local effects
zinc			0.58 mg/kg Dermal	
bis[O-(6-methylheptyl)]			8.31 mg/m ³ Inhalation	
bis[O-(sec-butyl)]				
bis(dithiophosphate)***				
93819-94-4				
DNEL Consumer				
Chemical Name	Short term, systemic	Short term, local effects	Long term, systemic	Long term, local effects
	effects		effects	



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zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)*** 93819-94-4	0.29 mg/kg Dermal 2.11 mg/m³ Inhalation 0.24 mg/kg Oral
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Predicted No Effect Concentration (PNEC)

Chemical Name	Water	Sediment	Soil	Air	STP	Oral
zinc	0.004 mg/l fw	0.0116 mg/kg dw	0.00528 mg/kg		100 mg/l	10.67 mg/kg food
bis[O-(6-methylhept	0.0046 mg/l mw	fw	soil dw		-	
yl)]	0.021 mg/l or	0.00116 mg/kg				
bis[O-(sec-butyl)]		dw mw				
bis(dithiophosphate)						

93819-94-4						

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). Type A/P2. 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.***
Skin and body protection	Wear suitable protective clothing. Protective shoes or boots. Long sleeved clothing. Do not wear rings, watches or anything similar which can retain the product and may give rise to skin conditions. Extended and repeated contacts with skin can cause skin ailments which may be aggravated by minor injuries or contact with soiled clothing.***
Hand Protection	Hydrocarbon-proof gloves. Nitrile rubber, Fluorinated 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, and the contact time. 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.***



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Environmental exposure contro	ls					
General Information	The product should not	The product should not be allowed to enter drains, water courses or the soil.				
Section 9: PHYSICAL AN	D CHEMICAL PROPER	RTIES				
9.1. Information on basi	c physical and chemi	cal properties				
Appearance Color Physical State @20°C Odor		limpid yellow To brown liquid Characteristic				
<u>Property</u> pH Boiling point/boiling range	<u>Values</u>	<u>Remarks_</u> Not applicable*** Not applicable***	<u>Method</u>			
Flash point ***	> 200*** °C*** > 392*** °F***		Cleveland Open Cup (COC) Cleveland Open Cup (COC)			
Evaporation rate Flammability Limits in Air Vapor Pressure Vapor density		No information available*** No information available No information available*** No information available***				
Density Water solubility Solubility in other solvents	837 - *** 857 kg/m ³	@ 20 °C No information available*** No information available***	ASTM D 4052			
logPow *** Autoignition temperature	***	No information available *** Not applicable***	***			
Viscosity, kinematic *** Explosive properties Oxidizing Properties	*** 83.9*** mm2/s Not explosive Not applicable	@ 40 ^{°°} C ***	ISO 3104 ***			

9.2. Other information

No information available***

Section 10: STABILITY AND REACTIVITY

Possibility of hazardous reactions Not applicable

10.1. Reactivity

General Information

No information available.***

10.2. Chemical stability

Stability

Stable under recommended storage conditions.***

10.3. Possibility of hazardous reactions



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Hazardous Reactions	None under normal processing.***	
10.4. Conditions to Avoid		
Conditions to Avoid	Heat (temperatures above flash point), sparks, ignition points, flames, Heat, flames and sparks. Take precautionary measures against static oxidizing agents.***	
10.5. Incompatible Materia	als	
Materials to Avoid	Strong oxidizing agents.***	
10.6. Hazardous Decompo	sition Products	
Hazardous Decomposition Product	s Incomplete combustion and thermolysis may produce gases of varying carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes a	• •
Section 11: TOXICOLOGICA	L INFORMATION	
11.1. Information on toxico	ological effects	

Acute toxicity Local effects Product Information

Skin contact	. Not classified.
Eye contact	. Causes serious eye irritation.***
Inhalation	. Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system.***
Ingestion	. Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.***

Acute toxicity - Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
zinc bis[O-(6-methylheptyl)]	LD50 2600 mg/kg (Rat)	LD50 > 3160 mg/kg (Rabbit -	
bis[O-(sec-butyl)] bis(dithiophosphate)***		OECD 402)	

Sensitization

Sensitization

Not classified as a sensitizer.

Specific effects



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Revision Date: 2015-04-20 Version 2 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) No information available. Target Organ Effects (STOT) Other information Other adverse effects Characteristic skin lesions (pimples) may develop following prolonged and repeated exposures (contact with contaminated clothing).***

Section 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 bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)*** 93819-94-4	EbC50 (96h) 2.1 mg/l Selenastrum capricornutum (OECD 201)	EL50 (48h) 5.4 mg/l Daphnia magna (OECD 202)	LC50 (96h) 4.5 mg/l Oncorhynchus mykiss (OECD 203)	

Chronic aquatic toxicity - Product Information

No information available.

Chronic aquatic toxicity - Component Information No information available.

Effects on terrestrial organisms

No information available.



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12.2. Persistence and de	egradability		
General Information No information available.			
12.3. Bioaccumulative p	otential		
Product Information	No information available.		
logPow Component Information	*** No information availab	ole ***	
Chemical	Name	log Pow	
zinc bis[O-(6-methylheptyl)] bis[O-(se 93819-9		0.9	
12.4. Mobility in soil			
Soil	Given its physical and che mobility.	mical characteristics, the product generally show	vs low soil
Air	Loss by evaporation is lim	ited.	
Water	Insoluble. The product spr	eads 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 effe	<u>cts</u>		
General Information	No information available.		
Section 13: DISPOSAL CO	NSIDERATIONS		
13.1. Waste treatment n	nethods		
Waste from Residues / Unused		with the European Directives on waste and haza	

Waste from Residues / Unused Products	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. If recycling is not practicable, dispose of in compliance with local regulations.***
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.



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EWC Waste Disposal No.	The following Waste Codes are only suggestions:. 13 02 05. Accordi Waste Catalogue, Waste Codes are not product specific, but applica codes should be assigned by the user based on the application for w used.***	tion specific. Waste
Other information	According to the European Waste Catalogue, Waste Codes are not p application specific. Waste codes should be assigned by the user ba- for which the product was used.***	
Section 14: TRANSPOR	T INFORMATION	
ADR/RID	Not regulated	
IMDG/IMO_	Not regulated	
ICAO/IATA_	Not regulated	
ADN	Not regulated	
Section 15: REGULATO	RY INFORMATION	
15.1. Safety, health an	d environmental regulations/legislation specific for the	substance or

<u>mixture</u>

European Union

International Inventories No information available***

Further information

No information available***

15.2. Chemical Safety Assessment

Chemical Safety Assessment No information available

Section 16: OTHER INFORMATION

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

R38 - Irritating to skin R41 - Risk of serious damage to eyes***

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



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Full text of H-Statements referred to under sections 2 and 3	
H315 - Causes skin irritation	
H318 - Causes serious eye damage	
H411 - Toxic to aquatic life with long lasting effects***	
Abbreviations, acronyms	

Legend Section 8	3		
TWA: Time Weigl	nt Average		
STEL: Short Time	e Exposure Limit		
+	Sensitizer	*	Skin designation
**	Hazard Designation	C:	Carcinogen
M:	Mutagen	R:	Toxic to reproduction
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Revision Date: Revision Note

*** Indicates updated section.

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

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 the safety data sheet