

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

SDS #: 081914

EVOLUTION 900 FT 0W-40

Date of the previous version: 2014-04-03

Revision Date: 2015-04-14

Version 2

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name	EVOLUTION 900 FT 0W-40
Number	BY4
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 BELGIUM Handelsstraat, 93, Rue du Commerce B-1040 BRUSSEL - BRUXELLES België - Belgique Tel : +32 (0)22 889 933 Fax : +32 (0)22 883 260

For further information, please contact:

Contact Point E-mail Address HSE

rm.be-reach-belgium-msds@total.com

1.4. Emergency telephone number

Official National Emergency Number:

Teleserv S.O.S Total Belgium : +32 (0)78 15 51 51 On duty staff in Ertvelde (Lub): +32 (0)475 66 07 77

Burns Centers:

Bruxelles - (NOH) - Brussel : +32 (0)2 264 48 48, Hopital Militaire Reine Astrid - Militair Hospitaal Koningin Astrid Antwerpen - Anvers : +32 (0)3 217 71 11, Algemeen centrum Ziekenhuis Gent - Gand : +32 (0)9 240 34 90 Centre Universitaire UZ Gand-Universitair Ziekenhuis UZ Gent Leuven - Louvain : +32 (0)16 34 87 50 U.Z. Leuven Loverval : +32 (0)71 44 80 00, Hôpital Saint Joseph et Sainte Thérèse, section I.M.T.R Luik - Liège : +32 (0)4 366 72 94, CHU Liège domaine Universitaire du Sart Tilman

Poison center: c/o Hôpital Militaire Reine Astrid Militair Hospitaal Koningin Astrid 1 Rue Bruyn - Bruynstraat 1 B-1120 Bruxelles - Brussel +32 (0)70 245 245***



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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)**

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***

Supplemental Hazard Statements EUH210 - Safety data sheet available on request***

2.3. Other hazards

Environmental properties

Contaminated surfaces will be extremely slippery.***

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS



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3.2. Mixture

Chemical nature

The product is made from refined mineral base oils and synthetic oils.

lazardous components Chemical Name	EC-No	REACH	CAS-No	Weight %	Classification (Dir.	GHS Classification
	EC-NU	Registration Number	CAS-NU	weight /o	67/548)	
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated***	500-183-1	01-2119486452-34** *	68037-01-4	<50	-	Asp. Tox. 1 (H304)***
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based***	276-738-4* **	01-2119474889-13** *	72623-87-1	<8	-	Asp. Tox. 1 (H304)
zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)***	298-577-9	01-2119543726-33	93819-94-4	<1.5	Xi;R38-41 N;R51-53	Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 2 (H411)

Additional information

Product containing mineral oil with less than 3% DMSO extract as measured by IP 346. The product is made from synthetic base oils (Polyalfaolefins).

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 immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately.***
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	Severely irritating to eyes.***
Skin contact	Not classified. May produce an allergic reaction.***
Inhalation	Not classified. Inhalation of vapours in high concentration may cause irritation of respiratory system.



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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.

Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media Carbon dioxide (CO₂). 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.

5.3. Precautions for fire-fighters

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 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.



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6.4. Reference to other sections					
Personal protective equipment	See Section 8 for more detail.				
Waste treatment	Waste treatment See section 13.				
Section 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.

Hygiene measuresEnsure 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)

Specific use(s) No information available.***

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parametres

Exposure limits	Mineral oil mist: USA: OSHA (PEL) TWA 5 mg/m ³ , NIOSH (REL) TWA 5 mg/m ³ , STEL 10 mg/m ³ , ACGIH (TLV) TWA 5 mg/m ³ (highly refined)***
Legend	See section 16

DNEL Worker (Industrial/Professional)



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Chemical Name	Short term, systemic effects	Short term, local effects	Long term, systemic effects	Long term, local effects
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based*** 72623-87-1				5.4 mg/m³/8h (aerosol - inhalation)
zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)*** 93819-94-4			0.58 mg/kg Dermal 8.31 mg/m³ Inhalation	
DNEL Consumer				
Chemical Name	Short term, systemic effects	Short term, local effects	Long term, systemic effects	Long term, local effects
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based*** 72623-87-1				1.2 mg/m³/24h (aerosol - inhalation)
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	

Predicted No Effect Concentration (PNEC)

Chemical Name	Water	Sediment	Soil	Air	STP	Oral
Lubricating oils						9.33 mg/kg
(petroleum),						food***
C20-50,						
hydrotreated neutral						
oil-based***						
72623-87-1						
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

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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



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General Information	If the product is used in mixtures, it is recommended that you contact the protective equipment suppliers. These recommendations apply to the pro-			
Respiratory protection	When workers are facing concentrations above the exposure limit they n appropriate certified respirators. Respirator with combination filter for var 14387). Type A/P2. The use of breathing apparatus must comply strictly manufacturer's instructions and the regulations governing their choices a	oour/particulate (EN with the		
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.			
Hand protection	Hydrocarbon-proof gloves: Fluorinated rubber, Nitrile rubber. Please obs instructions regarding permeability and breakthrough time which are pro- supplier of the gloves. Also take into consideration the specific local con- the product is used, such as the danger of cuts, abrasion, and the conta- solution, or mixed with other substances, and under conditions which dif- contact the supplier of the EC approved gloves.	vided by the ditions under which ct time. If used in		

Environmental exposure controls

General Information

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

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Colour Physical state @20°C Odour		yellow Liquid characteristic	
<u>Property</u> pH Boiling point/boiling range	Values_	Remarks No information available No information available	<u>Method</u>
Flash point	> 200 °C > 392 °F		
Evapouration rate Flammability Limits in Air Vapour pressure Vapour density Density Water solubility Solubility in other solvents logPow Autoignition temperature ***	844 kg/m ³	No information available No information available No information available @ 15 °C Insoluble No information available No information available	*** ***
Viscosity, kinematic	76.4 mm2/s 13.5 mm2/s	@ 40 °C @ 100 °C	ISO 3104 ISO 3104



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Explosive properties Oxidising properties Possibility of hazardous reactions	Not explosive No information available No information available
9.2. Other information	
No information available***	
Section 10: STABILITY AND	REACTIVITY
10.1. Reactivity	
General Information	No information available.
10.2. Chemical stability	
Stability	Stable under recommended storage conditions.
10.3. Possibility of hazardo	us 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 materia	ls
Materials to avoid	Strong oxidising agents.
10.6. Hazardous Decompos	ition Products
Hazardous Decomposition Product	s Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot.***
Section 11: TOXICOLOGICA	

11.1. Information on toxicological effects

Acute toxicity Local effects Product Information

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Skin contact	. Not classified. May produce an allergic reaction.***
Eye contact	. Severely irritating to eyes.***
Inhalation	. Not classified. Inhalation of vapours in high concentration may cause irritation of respiratory system.



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Ingestion

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

Acute toxicity - Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation	
Dec-1-ene, homopolymer, hydrogenated	LD50 > 5000 mg/kg (Rat)	LD50 > 2000 mg/kg (Rat)	LC50 (4h) > 5.2 mg/l (Rat)	
Dec-1-ene, oligomers, hydrogenated***				
Lubricating oils (petroleum), C20-50,	LD50 > 5000 mg/kg bw (rat -	LD50 > 5000 mg/kg bw (rabbit -	LC50 (4h) > 5 mg/l (aerosol) (rat -	
hydrotreated neutral oil-based***	OECD 401)***	OECD 402)	OECD 403)	
zinc bis[O-(6-methylheptyl)]	LD50 2600 mg/kg (Rat)	LD50 > 3160 mg/kg (Rabbit -		
bis[O-(sec-butyl)] bis(dithiophosphate)***		OECD 402)		
<u>Sensitisation</u>				
Sensitisation	Not classified as a sensitizer			
Specific effects				
Carcinogenicity	This product is not classified	carcinogenic. During use in eng	ines, contamination of oil with	
	•	ducts occurs. Used motor oils ha	-	
	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 wa			
Chemical Name European Union			Union	
Lubricating oils (petroleum), C20-50, hydr		Europouri		
72623-87-1				
Mutagenicity	This product is not classified	as mutagenic.		
Reproductive toxicity	This product does not present any known or suspected reproductive hazards.			
hopfoddollvo loxiolty				
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 (o exposures (contact with cont	il blisters) may develop following aminated clothing).	prolonged and repeated	

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Not classified.

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Acute aquatic toxicity - Product Information

No information available.



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Acute aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates.	Toxicity to fish	Toxicity to microorganisms
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated*** 68037-01-4 Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based*** 72623-87-1	EL50 (72h) > 1000 mg/l (Scenedesmus capricornutum - OECD 201)*** EL50 (48h) > 100 mg (Pseudokirchnerella subcapitata - OECD 201)***	EC50 (48h) 190 mg/l (Daphnia magna) LE50(48h) > 1000 mg/l (Daphnia magna)*** EL50 (48h) > 10000 mg/l (Daphnia magna - OECD 202) LL50 (24h) > 10000 mg/l (Gammarus pulex - OECD 202) LL50 (48h) > 10000 mg/l (Gammarus pulex - OECD 202) LL50 (72h) > 10000 mg/l (Gammarus pulex - OECD 202) LL50 (96h) > 10000 mg/l (Gammarus pulex - OECD 202) LL50 (96h) > 10000 mg/l	LC50(96h) > 750 mg/l (Pimephales promelas) LL50(96h) > 1000 mg/l (Pimephales promelas)*** LL50 (96h) > 100 mg/l (Oncorhynchus mykiss - OECD 203)***	
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

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates.	Toxicity to fish	Toxicity to microorganisms
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated*** 68037-01-4	NOELR (72h) 1000 mg/l (Scenedesmus capricornutum - OECD 201)***	NOELR (21d) 125 mg/l (Daphnia magna - OECD 211)***		
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based*** 72623-87-1		NOEL (21d) 10 mg/l (Daphnia magna - OECD 211)	NOEL (14/28d) > 1000 mg/l (Oncorhynchus mykiss - QSAR Petrotox) NOEL (96h) > 100 mg/l (Pimephales promelas - OECD 203)***	

Effects on terrestrial organisms

No information available.

12.2. Persistence and Degradability

General Information

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No information available.



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12.3. Bioaccumulative potential

Product Information No information available.

logPow No information available

Component Information

Chemical Name	log Pow
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based*** - 72623-87-1	4.1
zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)*** - 93819-94-4	0.9

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.

Section 13: DISPOSAL CONSIDERATIONS

13.1. 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.
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.

Section 14: TRANSPORT INFORMATION



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ADR/RIDnot regulatedIMDG/IMOnot regulatedICAO/IATAnot regulatedADNnot regulated

Section 15: REGULATORY INFORMATION

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

European Union

International Inventories	No information available**
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Further information

No information available***

15.2. Chemical Safety Assessment

Chemical Safety Assessment No information available

15.3. National regulatory information

Belgium

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

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***

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

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H318 - Causes serious eye damage

H411 - Toxic to aquatic life with long lasting effects***



Revision Note

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Abbreviations, acronyms

Legend Section & TWA: Time Weigh STEL: Short Time	nt Average		
+	Sensitiser	*	Skin designation
**	Hazard Designation	C:	Carcinogen
M:	Mutagen	R:	Toxic to reproduction
Revision Date:	2015-04-14		

*** 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 Safety Data Sheet