



## MATERIAL SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

SDS # : 32024

### COOLELF AUTO SUPRA -37°C

Date of the previous version: 2011-04-22

Revision Date: 2012-04-02

Version 1.01

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

##### 1.1. Product identifier

<b>Product name</b>	<b>COOLELF AUTO SUPRA -37°C</b>
<b>Number</b>	EKJ
<b>Pure substance/mixture</b>	Mixture

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

<b>Identified uses</b>	Antifreeze, Coolant.
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##### 1.3. Details of the supplier of the safety data sheet

<b>Supplier</b>	TOTAL LUBRIFIANTS 562 Avenue du Parc de L'île 92029 Nanterre Cedex Tél: +33 (0)1 41 35 40 00 Fax: +33 (0)1 41 35 84 71
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##### For further information, please contact

<b>Contact Point</b>	HSE
<b>E-mail Address</b>	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 )

#### 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 classified as dangerous in accordance with Directive(s) 67/548/EEC with amendments and/or 1999/45/EC with amendments

**Symbol(s)**

Xn - Harmful

**Classification**

Xn;R22

2.2. Label elements

**Labelled according to:** Directive 1999/45/EC



Xn - Harmful

Contains Monoethyleneglycol

**R-phrases(s)**

R22 - Harmful if swallowed

**S-phrases(s)**

S 2 - Keep out of the reach of children

S46 - If swallowed, seek medical advice immediately and show this container or label

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 No:	CAS-No	Weight %	Classification (Dir. 67/548)	Classification (Reg. 1272/2008)
Monoethyleneglycol	203-473-3	01-2119456816-28	107-21-1	>25	Xn;R22	Acute Tox.4 (H302) STOT RE 2 (H373)
Sodium 2-ethylhexanoate	243-283-8	no data available	19766-89-3	<5	Repr.Cat.3;R63	



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### Additional information

Product with ethylene-glycol base. This product contains an approved repellent (bitter), for the purpose of avoiding the risk of accidental ingestion.

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.

### 4. FIRST AID MEASURES

#### 4.1. Description of first-aid measures

<b>General advice</b>	IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE. Show this material safety data sheet to the doctor in attendance.
<b>Eye contact</b>	Check for and remove any contact lenses. Rinse thoroughly with plenty of water, also under the eyelids.
<b>Skin contact</b>	Remove contaminated clothing and shoes. Wash skin with soap and water. Wash contaminated clothing before reuse.
<b>Inhalation</b>	Move to fresh air. If breathing difficult: Consult a physician.
<b>Ingestion</b>	Do NOT induce vomiting. Call a physician or Poison Control Center immediately. Never give anything by mouth to an unconscious person.

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

<b>Eye contact</b>	Not classified.
<b>Skin contact</b>	Not classified.
<b>Inhalation</b>	Not classified. Vapors inhaled in strong concentration have a narcotic effect on the central nervous system. May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination. Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness, cessation of breathing.
<b>Ingestion</b>	Harmful if swallowed. Ingestion constitutes the main danger because of the toxicity of ethylene glycol. Accidental ingestion may be harmful to the central nervous system. Ingestion is followed first by digestive disorders (nausea, vomiting, abdominal pain), then by loss of muscular coordination, convulsions, headaches, and dizzy spells, preceding serious nervous disorders. This develops into a state of torpor and then coma, at times accompanied by convulsions. Intoxication can lead to a coma with metabolic acidosis that may be fatal.

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



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**Notes to physician** Treat symptomatically

### 5. FIRE-FIGHTING MEASURES

#### 5.1. Extinguishing media

**Suitable Extinguishing Media** Water spray. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>). Foam.

**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. Advice 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.

### 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-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 sections



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**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 vapors or spray mist. Avoid contact with skin, eyes and clothing. Never pierce, drill, grind, cut, saw or weld any empty container.

**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 out of the reach of children. Keep away from food, drink and animal feedingstuffs. Keep in a banded area. Keep container tightly closed. Keep preferably in the original container. Otherwise reproduce all indication of the regulation label on the new container. Do not remove the hazard labels of the containers (even if they are empty). Protect from frost, heat and sunlight. Protect from moisture.

**Materials to Avoid** Strong oxidizing agents. Strong acids.

#### 7.3. Specific end uses

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control parameters

**Exposure limits** Ingredients with workplace control parameters

Chemical Name	European Union
Monoethyleneglycol 107-21-1	TWA 20 ppm TWA 52 mg/m <sup>3</sup> STEL 40 ppm STEL 104 mg/m <sup>3</sup> S*

**Legend** See section 16

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### DNEL Worker (Industrial/Professional)

Chemical Name	Short term, systemic effects	Short term, local effects	Long term, systemic effects	Long term, local effects
Monoethyleneglycol 107-21-1			106 mg/kg bw/day (dermal)	35 mg/m <sup>3</sup> /8h (inhalation)

### DNEL Consumer

Chemical Name	Short term, systemic effects	Short term, local effects	Long term, systemic effects	Long term, local effects
Monoethyleneglycol 107-21-1			53 mg/kg bw/day (dermal)	7 mg/m <sup>3</sup> /24h (inhalation)

### Predicted No Effect Concentration (PNEC)

Chemical Name	Water	Sediment	Soil	Air	STP	Oral
Monoethyleneglycol 107-21-1	10 mg/l (fw) 1mg/l (mw) 10 mg/l (or)	20.9 mg/kg dw (mw)	1.53 mg/kg dw		199.5 mg/l	

## 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

None under normal use conditions. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. 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. Impervious gloves. Protective shoes or boots. Long sleeved clothing.

##### Hand Protection

Rubber gloves, Nitrile rubber. Neoprene gloves, Polyvinylchloride. 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.



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**Environmental exposure controls****General Information** Do not allow material to contaminate ground water system.**9. PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties**

<b>Color</b>	orange
<b>Physical State @20°C</b>	liquid
<b>Odor</b>	Slight

<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks</u></b>	<b><u>Method</u></b>
<b>pH</b>		No information available	
<b>Boiling point/boiling range</b>		No information available	
<b>Flash point</b>		Not applicable	
<b>Evaporation rate</b>		No information available	
<b>Flammability Limits in Air</b>		Not applicable	
<b>Vapor Pressure</b>		No information available	
<b>Vapor density</b>		No information available	
<b>Density</b>	1000 kg/m <sup>3</sup>	@ 15 °C	
<b>Water solubility</b>		soluble	
<b>Solubility in other solvents</b>		No information available	
<b>logPow</b>		No information available	
<b>Autoignition temperature</b>		No information available	
<b>Viscosity, kinematic</b>		No information available	

<b>Explosive properties</b>	Not explosive
<b>Oxidizing Properties</b>	Not applicable
<b>Possibility of hazardous reactions</b>	Not applicable

**9.2. Other information****10. STABILITY AND REACTIVITY****10.1. Reactivity****10.2. Chemical stability**



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**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 oxidizing agents. Strong acids.

10.6. Hazardous Decomposition Products

**Hazardous Decomposition Products** Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot, Ketones.

**11. TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects**Acute toxicity Local effects Product Information**

**Skin contact** Not classified.

**Eye contact** Not classified.

**Inhalation** Not classified. Vapors inhaled in strong concentration have a narcotic effect on the central nervous system. May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination. Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness, cessation of breathing.

**Ingestion** Harmful if swallowed. Ingestion constitutes the main danger because of the toxicity of ethylene glycol. Accidental ingestion may be harmful to the central nervous system. Ingestion is followed first by digestive disorders (nausea, vomiting, abdominal pain), then by loss of muscular coordination, convulsions, headaches, and dizzy spells, preceding serious nervous disorders. This develops into a state of torpor and then coma, at times accompanied by convulsions. Intoxication can lead to a coma with metabolic acidosis that may be fatal.

**Acute toxicity Component Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
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Monoethyleneglycol	-	-	
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**Sensitization****Sensitization** Not classified as a sensitizer.**Specific effects****Carcinogenicity** This product is not classified carcinogenic.**Mutagenicity** This product is not classified as mutagenic.**Reproductive toxicity** This product does not meet the EU criteria for classification. Contains a known or suspected reproductive toxin.**Repeated Dose Toxicity****Subchronic toxicity** No information available.**Target Organ Effects (STOT)****Target Organ Effects (STOT)** No information available.**Other information****12. ECOLOGICAL INFORMATION****12.1. Toxicity**

Not classified.

**Acute aquatic toxicity Product Information**

No experimental data available .

**Acute aquatic toxicity Component Information**

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Toxicity to microorganisms
Monoethyleneglycol 107-21-1	-	-	LC50 (24h): >5000 mg/l (Carassius auratus)	

**Chronic aquatic toxicity Product Information**

No information available.



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**Chronic aquatic toxicity Component Information**

No information available.

**Effects on terrestrial organisms**

No information available.

12.2. Persistence and degradability**General Information**

Not readily biodegradable.

12.3. Bioaccumulative potential**Product Information** No information available**logPow** No information available**Component Information**

Chemical Name	log Pow
Monoethyleneglycol - 107-21-1	-1.2

12.4. Mobility in soil**Soil** Given its physical and chemical characteristics, the product is generally mobile in the ground.**Air** Loss by evaporation is limited.**Water** soluble.12.5. Results of PBT and vPvB assessment**PBT and vPvB assessment** No information available.12.6. Other adverse effects**13. DISPOSAL CONSIDERATIONS**13.1. Waste treatment methods**Waste from Residues / Unused Products** Should not be released into the environment. Do not empty into drains. Dispose of in accordance with the European Directives on waste and hazardous waste.



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<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal.
<b>EWC Waste Disposal No.</b>	The following Waste Codes are only suggestions: 16 01 14. 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

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

International Inventories

<b>EINECS/ELINCS</b>	Complies
<b>TSCA</b>	Complies
<b>DSL</b>	Complies
<b>ENCS</b>	Complies
<b>IECSC</b>	Complies
<b>KECL</b>	Complies
<b>PICCS</b>	Complies
<b>AICS</b>	Complies
<b>NZIoC</b>	Complies

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### 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/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**ENCS** - Japan Existing and New Chemical Substances

**IECS** - 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

**NZIoC** - New Zealand Inventory of Chemicals

Further information

### 15.2. Chemical Safety Assessment

**Chemical Safety Assessment** No information available

### 16. OTHER INFORMATION

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

R22 - Harmful if swallowed

R63 - Possible risk of harm to the unborn child

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

H302 - Harmful if swallowed

H373 - May cause damage to organs through prolonged or repeated exposure if swallowed

#### Abbreviations, acronyms

Legend Section 8

+	Sensitizer	*	Skin designation
**	Hazard Designation	C:	Carcinogen
M:	Mutagen	R:	Toxic to reproduction

**Revision Date:** 2012-04-02

**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.



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End of the safety data sheet