

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

IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Supplier

Product name COOLELF AUTO SUPRA -37°C

Number EKJ
Pure substance/mixture Mixture

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

Identified uses Antifreeze, Coolant.

1.3. Details of the supplier of the safety data sheet

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

TOTAL LUBRIFIANTS

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: Hopital 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



Contains Monoethyleneglycol

R-phrase(s)

R22 - Harmful if swallowed

S-phrase(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 repellant (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

General advice 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.

Eye contact Check for and remove any contact lenses. Rinse thoroughly with plenty of water, also

under the eyelids.

Skin contact Remove contaminated clothing and shoes. Wash skin with soap and water. Wash

contaminated clothing before reuse.

Inhalation Move to fresh air. If breathing difficult: Consult a physician.

Ingestion 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

Eye contact

Not classified.

Skin 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.

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



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Treat symptomatically Notes to physician

FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

Water spray. Dry chemical powder. Carbon dioxide (CO₂). 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.

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 bunded 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

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/m³ STEL 40 ppm STEL 104 mg/m³
	S*

Legend

See section 16



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DNEL Worker (Industrial/Professional)

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

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 ³ /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)	20.9 mg/kg dw (mw)	1.53 mg/kg dw		199.5 mg/l	
	10 mg/l (or)					

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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Method

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

Color Physical State @20°C

Odor

Odor

orange

liquid Slight

Property Values Remarks

pH Boiling point/boiling range No information available No information available

Flash point Not applicable

Evaporation rateNo information available

1000 kg/m³

Flammability Limits in Air

Vapor Pressure Vapor density

Density Water solubility

Solubility in other solvents

logPow

Autoignition temperature Viscosity, kinematic

Not applicable
No information

No information available No information available

@ 15 °C soluble

No information available No information available No information available No information available

Explosive propertiesNot explosiveOxidizing PropertiesNot applicablePossibility of hazardous reactionsNot 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 parvage disorders. This develops into a state of terror and then some at times.

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

Che	mical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation



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Monoethyleneglycol	-	-	

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

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

12.4. Mobility in soil

Given its physical and chemical characteristics, the product is generally mobile in the

ground.

Air

Loss by evaporation is limited.

Water

Soil

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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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: 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

ADR/RID Not regulated

IMDG/IMO Not regulated

ICAO/IATA Not regulated

ADN 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

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

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

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

** Hazard Designation

* Skin designationC: 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