



Safety Data Sheet

complying with Regulation 1907/2006/EC (REACH Regulation),
EU2015/830 and Regulation No 1272/2008/EC (CLP)

Printing date 23.06.2016

Version number 1

Revision:: 10.06.2016

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier

Trade name: **CYCLON RADIATOR LONGLIFE (G12+)**

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

Application of the substance / the mixture: Antifreeze/Coolant

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

LPC S.A.

Megaridos Avenue 124

Aspropyrgos - Attica , 19300

Tel.: 210 - 809 3900

Fax: 210 - 809 3999

e-mail: technical@cyclon.gr

1.4 Emergency telephone number: +302107793777

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation EC No 1272/2008 CLP:



H302 Harmful if swallowed.

H373 May cause damage to organs through prolonged or repeated exposure.

2.2 Label elements

Labelling according to Regulation EC No 1272/2008 CLP:

The product is classified and labelled according to the CLP regulation.

Hazard pictograms:



Signal word: WARNING

Hazard statements:

H302 Harmful if swallowed.

H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

P264 Wash thoroughly after handling.

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P314 Get medical advice/attention if you feel unwell.

P330 Rinse mouth.

P102 Keep out of reach of children.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:

Contains 1,2 ethanediol

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.



Safety Data Sheet

complying with Regulation 1907/2006/EC (REACH Regulation),
EU2015/830 and Regulation No 1272/2008/EC (CLP)

Printing date 23.06.2016

Version number 1

Revision:: 10.06.2016

SECTION 3: Composition/information on ingredients

Ingredients	CAS Number	EINECS Number	Registration Number	CLP Classification	%
1,2 ethanediol	107-21-1	203-473-3	01-2119456816-28	Acute Tox. 4/H302; STOT RE 2/H373	60-98% wt.
2-αιθυλοεξανόικό νάτριο	19766-89-3	243-283-8	**	Repr. 2/H361d	1-4.9% wt.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: Take affected persons out into the fresh air.

After inhalation: Seek medical treatment in case of complaints.

After skin contact: Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.

After eye contact: Rinse opened eye for at least 15 minutes under running water. Seek immediate medical advice.

After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.

Seek immediate medical advice.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

Water mist, foam, dry chemical or CO₂. Fight larger fires with water spray.

Use fire extinguishing methods suitable to surrounding conditions.

5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Carbon monoxide (CO), Carbon dioxide (CO₂), unspecified organic compounds

5.3 Advice for firefighters

Protective equipment:

Mouth respiratory protective device.

Wear fully protective suit.

Additional information

Collect contaminated fire-fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Keep away from ignition sources.

Particular danger of slipping on leaked/spilled product.

6.1.1 For non-emergency personnel

Keep away from ignition sources.

Caution for slippery surfaces.

Avoid contact with skin and eyes.

6.1.2 For emergency responders

Use chemicals resistant gloves.

Use antistatic and slip resistant boots.

6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water. Do not allow to penetrate the ground/soil.

6.3 Methods and material for containment and cleaning up:



Safety Data Sheet

complying with Regulation 1907/2006/EC (REACH Regulation),
EU2015/830 and Regulation No 1272/2008/EC (CLP)

Printing date 23.06.2016

Version number 1

Revision:: 10.06.2016

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust, silica gel).

6.4 Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling: No special precautions are necessary if used correctly.

Information about fire - and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: Store in a cool location.

Information about storage in one common storage facility: Not required.

Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

Ingredient	Country/ Body	TWA	STEL	Upper limit	Note
1,2 ethanediol	EU - Indicative	52 mg/m3	104 mg/m3	--	Skin
1,2 ethanediol	Greece	125 mg/m3	125 mg/m3	--	--
2-αιθυλοεξανόϊκό νάτριο	Greece		--	--	--

8.2 Exposure controls

Personal protective equipment

General protective and hygienic measures: Wash hands before breaks and at the end of work.

Respiratory protection: Not required.

Protection of hands:



Protective gloves

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

Eye protection:



Safety glasses

Body protection:



Protective work clothing



Safety Data Sheet

complying with Regulation 1907/2006/EC (REACH Regulation),
EU2015/830 and Regulation No 1272/2008/EC (CLP)

Printing date 23.06.2016

Version number 1

Revision:: 10.06.2016

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties	
General Information	
Appearance:	
Form	Liquid
Color	
Odor	Mild
pH value	Not determined
Flashpoint: °C	>122
Vapour pressure:	Not determined
Density@ 15°C:	1,1
Relative density	Not determined
Evaporation rate	Not determined
Vapour density	Not determined
Solubility in / Miscibility with water:	Not miscible
Boiling point, °C	163
Freezing point, °C	<-18
9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

10.2 Chemical stability

Thermal decomposition / conditions to be avoided

No decomposition if used and stored according to specifications.

Stable at environment temperature.

10.3 Possibility of hazardous reactions

No dangerous reactions known.

10.4 Conditions to avoid

Oxidizing agents

10.5 Incompatible materials

No further relevant information available.

10.6 Hazardous decomposition products

No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Primary irritant effect:

Skin corrosion/irritation No irritating effect.

Serious eye damage/irritation Irritating effect.

Respiratory or skin sensitization No sensitizing effects known.

Additional toxicological information:

This product contains ethylene glycol (EG). The toxicity of EG via inhalation or skin contact is expected to be slight at room temperature. The estimated oral lethal dose is about 100 cc (3.3 oz.) for an adult human. Ethylene glycol is oxidized to oxalic acid which results in the deposition of calcium oxalate crystals mainly in the brain and kidneys. Early signs and symptoms of EG poisoning may resemble those of alcohol intoxication. Later, the victim may experience nausea, vomiting, weakness, abdominal and muscle pain, difficulty in breathing and decreased urine output. When EG was heated above the boiling point of water, vapors formed which reportedly caused unconsciousness, increased lymphocyte count, and a rapid, jerky movement of the eyes in persons chronically exposed. When EG was administered orally to pregnant rats and mice, there was an increase in fetal deaths and birth defects. Some of these effects occurred at doses that had no toxic effects on the mothers. We are not aware of any reports that EG causes reproductive toxicity in human beings. 2-Ethylhexanoic acid (2-EXA) caused an increase in liver size and enzyme levels when repeatedly administered to rats via the diet. When administered to pregnant rats by gavage or in drinking water, 2-EXA caused teratogenicity (birth defects) and delayed postnatal development of the pups. Additionally, 2-EXA impaired female fertility in rats. Birth defects were



Safety Data Sheet

complying with Regulation 1907/2006/EC (REACH Regulation),
EU2015/830 and Regulation No 1272/2008/EC (CLP)

Printing date 23.06.2016

Version number 1

Revision:: 10.06.2016

seen in the offspring of mice who were administered sodium 2-ethylhexanoate via intraperitoneal injection during pregnancy.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability No further relevant information available.

12.3 Bio accumulative potential expected to bioaccumulate rapidly.

12.4 Mobility in soil No further relevant information available.

Ecotoxicological effects:

Remark: Harmful to fish

Additional ecological information: No further info.

12.5 Results of PBT and vPvB assessment

PBT: No further info.

vPvB: No further info.

12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

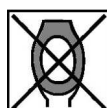
13.1 Waste treatment methods

Recommendation

In case of discarding waste oil, according European Directive 75/439/EEC, recycling of the product is recommended. Disposal of large amounts must be carried out from qualified, authorized body.



Dispose according to National Regulations



Must not be disposed together with household garbage. Do not allow product to reach sewage system

Uncleaned packaging:

Recommendation:

Disposal must be made according to official regulations. Packaging may be reused or recycled after cleaning

SECTION 14: Transport information

14.1 UN-Number ADR, ADN, IMDG, IATA	Void Void
14.2 UN proper shipping name ADR, ADN, IMDG, IATA	Void Void
14.3 Transport hazard class(es) ADR, ADN, IMDG, IATA	Void Void
14.4 Packing group ADR, IMDG, IATA	Void Void
14.5 Environmental hazards: Marine pollutant:	No
14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.
"Règlement type" de l'ONU:	-----

SECTION 15: Regulatory information



Safety Data Sheet

complying with Regulation 1907/2006/EC (REACH Regulation),
EU2015/830 and Regulation No 1272/2008/EC (CLP)

Printing date 23.06.2016

Version number 1

Revision:: 10.06.2016

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

REACH Regulation 1907/2006/EC

Regulation (EU) 2015/830

CLP Regulation 1272/2008/EC

Constituents of the mixture that fall within the scope of REACH Regulation 1907/2006/EC, have been (pre)-registered from their suppliers.

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

National regulations:

Other regulations, limitations and prohibitive regulations

Substances of very high concern (SVHC) according to REACH, Article 57

It doesn't contain substances of very high concern (SVHC).

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

Hazard statements:

H302 Harmful if swallowed.

H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

P264 Wash thoroughly after handling.

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P314 Get medical advice/attention if you feel unwell.

P330 Rinse mouth.

P102 Keep out of reach of children.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:

Contains 1,2 ethanediol

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

Skin Sens. 1B: Sensitisation - Skin, Hazard Category 1B

Repr. 2: Reproductive toxicity, Hazard Category 2

Asp.Tox. 1: Aspiration hazard, Hazard Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3