

# SAFETY DATA SHEET

According to Regulation (EC) N° 1907/2006 (REACH)

## **1. Substance/preparation and company name.**

**Trade Name** Luzar Aerothermia -5°C

**Typical Applications** Additive for aerothermal circuits.

**Company** Sucesores de Carmelo Pérez Martínez  
Ctra. Castellón Km 3,700  
Polígono la Unión, nave 3  
E-50.013 Zaragoza (Spain)  
Phone: +34 976 42 18 50  
e-mail: carpemar@carpemar.com

**Emergency phone no.** +34 91 562 04 20

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## **2. Hazard identification.**

**Classification of the substance or mixture.**

**Label elements.**

Label according to Regulation (CE)N° 1272/2008 [CLP]

The product is not subject to labeling.

**Other hazards.**

Unknown.

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## **3. Composition/Information on ingredients.**

Corrosion inhibitors in aqueous solution.

<b>Chemical name</b>	<b>CAS-No</b>	<b>EC number</b>	<b>%</b>
1,2-Propanediol	57-55-6	200-338-0	15%

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#### **4. First aid measures.**

<b>General advice</b>	Remove contaminated clothing.
<b>On contact with eyes</b>	Wash affected eyes for at least 15 minutes under running water with eyelids held open.
<b>On skin contact</b>	Wash thoroughly with soap and water.
<b>If inhaled</b>	If difficulties occur after mist/aerosol has been inhaled remove to fresh air and seek medical attention.
<b>On ingestion</b>	Rinse mouth and then drink water (two glasses at the most). Consult doctor if feeling unwell.
<b>Note to physician</b>	Symptomatic treatment (decontamination, vital functions), no known specific antidote.

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#### **5. Fire fighting measures.**

<b>Suitable extinguishing media:</b>	Water spray, alcohol resistant foam, dry extinguishers, carbon dioxide (CO <sub>2</sub> )
<b>Specific hazards</b>	Evolution of fumes/fog. Vapours heavier than air.
<b>Special protective equipment</b>	In case of fire, wear a self contained breathing apparatus.
<b>Further information</b>	Contaminated extinguishing water must be disposed according to official regulations.

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#### **6. Accidental release measures.**

<b>Personal precautions</b>	Use personal protective clothing. Do not inhale vapours/aerosol.
<b>Environmental precautions</b>	Do not discharge into drains, surface waters, ground water.
<b>Methods for cleaning up/taking up</b>	<u>Large amount:</u> Pump off products. <u>Residues/spills:</u> Bind the liquid by using a suitable absorbent material and dispose it according to the regulations

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## **7. Handling and storage.**

<b>Handling</b>	Ensure thorough ventilation of stores and working areas.
<b>Protection against fire and explosion</b>	Take precautionary measures against static discharges. If exposed to fire, keep containers cool by spraying with water.
<b>Storage</b>	Containers should be stored tightly sealed in dry place. Since zinc is not compatible with ethylene glycol, storage in galvanized containers is not recommended.

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## **8. Exposure controls and personal protection**

**General safety and hygiene measures:** Wash hands and forearms after handling. Do not smoke, eat or drink during manipulations.

### **Personal protective equipment:**

**Respiratory protection:** Only in case of release of fumes/fog. Well ventilated areas are recommended for manipulation. Required when vapors/aerosols are generated. Filter A-(P2)

**Hands:** Chemical resistant protective gloves are recommended.  
**Eyes:** Safety glasses with side-shields.

### **DNEL/DMEL values:**

<u>Exposition way</u>	<u>Group of people</u>	<u>Exposition time and /-effect</u>	<u>Value</u>
Skin	Workers	Long / Systematic effects	mg/Kg.day
Inhalation	Workers	Long / Local effects	mg/m <sup>3</sup>
Skin	Consumers	Long / Systematic effects	mg/Kg day
Inhalation	Consumers	Long / Local effects	mg/m <sup>3</sup>

### **PNEC Values**

<u>Fresh water:</u>	mg/l
<u>Sea water:</u>	mg/l
<u>Water (intermittent Releases):</u>	mg/l
<u>Fresh water -Sediment: 4</u>	mg/Kg dry
<u>Sea-Sediment</u>	--,-- mg/kg dry
<u>Soil:</u>	mg/kg dry
<u>Sewage treatment plant:</u>	mg/l

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## **9. Physical and Chemical properties.**

<b>Physical state</b>	Liquid
<b>Color</b>	Blue
<b>Odor</b>	Weak, characteristic
<b>pH</b>	7-8
<b>Boiling point/range</b>	approx. 101°C
<b>Solidification temperature</b>	approx. -5°C
<b>Vapor pressure at 20°C</b>	0.1 mbar at 20°C
<b>Flash point</b>	>100°C
<b>Ignition temperature</b>	>200°C
<b>Density</b>	1.04-1.05 g/cc at 20°C
<b>Solubility in water</b>	Unlimited
<b>Solubility in other solvents</b>	Soluble in polar solvents.

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## **10. Stability and reactivity.**

<b>Hazardous reactions</b>	No hazardous reactions if stored and handle as prescribed.
<b>Substances to avoid</b>	Powerful oxidizing agents and strong acids. Galvanized and zinc containers.
<b>Hazardous decomposition products</b>	No hazardous decomposition products if stored and handle as prescribed.

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## **11. Toxicological data.**

**Acute Toxicity:**  
DL50 (ingestion, rat): mg/Kg. (IUCLID)

**Specific symptoms with animal studies:**

**Chronic toxicity:**

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## **12. Ecological data.**

**Ecological Toxicity**  
Acute Toxicity fishes:

Invertebrates:

Algae:

Microorganisms:

Sedimentary Organisms:

The inhibition of the active sludge is not expected, when the substance is given in small quantities.

**Comments for aquatic toxicity**

The product has not been studied. The results are based on the individual properties of the substances.

**Persistence and degradability**

Biodegradation 95%/14 days (OCDE 302 B): biologically easy degradable.

**Additional Information** Do not release into natural waters.

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### **13. Disposal considerations**

**Contaminated packaging**

Uncontaminated canisters can be re-used. Canisters that cannot be cleaned should be disposed of in the same manner as the contents.

Packaging that cannot be cleaned should be disposed according to the applicable law in the same way that content.

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### **14. Transport information**

Not classified as hazardous under transport regulations.  
(ADR / RID / ADNR / IMDG/GGVSee ICIAO/IATA)

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### **15. Regulatory information**

Regulations of the European Union (labeling) / National legislation / Regulations:

Hazard symbol

H-phrases:

P-phrases:

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## **16. Further information.**

### **H statements:**

Health hazards:

H301: Toxic if swallowed.

H319: Causes serious eye irritation.

H332: Harmful if inhaled.

H412: Harmful to aquatic life with long-lasting effects.

### **Abbreviations and acronyms:**

***PNEC***: Predicted No Effect Concentration.

***Intermittent Release***: Intermittent but only recurring infrequently i.e. less than once per month and for no more than 24 hours.

This safety data sheet is intended to provide information and recommendations as to: 1. how to handle chemical substances and preparations in accordance with the essential requirements of safety precautions and physical, toxicological and ecological data. 2. How to handle, store, use and transport them safely.

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