

# SAFETY DATA SHEET

According to Regulation (EC) N° 1907/2006 (REACH); 453/2010/EC

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

|                             |   |
|-----------------------------|---|
| <b>Trade Name</b>           | Brine Fluid -20°C   |
| <b>Typical Applications</b> | Coolant/heat transfer fluid in closed systems.  |
| <b>Company</b>              | Sucesores de Carmelo Pérez Martínez<br>Ctra. Castellón Km 3,700<br>Polígono la Unión, nave 3<br>50.013 Zaragoza (Spain)<br>Phone: +34 976 42 18 50<br>e-mail: carpemar@carpemar.com |
| <b>Emergency phone no.</b>  | +34 91 562 04 20  |

---

## **2. Hazard identification**

### 2.1. Classification of the substance or mixture

No particular hazards known.

Classification according to Regulation (EC) No. 1272/2008 [CLP]:  
The product is not subject to classification

### 2.2. Label elements

Label according to Regulation (CE)N° 1272/2008 [CLP]:  
The product is not subject to labeling

---

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

The product contains no substances in such concentrations that they need to be declared.

---

## **4. First aid measures**

|                             |   |
|-----------------------------|---|
| <b>General advice</b>       | If in doubt, seek medical advice.   |
| <b>On contact with eyes</b> | Immediately rinse with water for several minutes. Remove any contact lenses. Hold eyelids apart. Consult a doctor if symptoms should occur. |
| <b>On skin contact</b>      | Wash skin with soap and water. Remove contaminated clothing. Consult a doctor if symptoms should occur.                                     |
| <b>If inhaled</b>           | Fresh air. Consult a doctor if symptoms should occur.   |
| <b>On Ingestion</b>         | Immediately rinse mouth and drink plenty of water (200-300 ml). Get medical attention.  |
| <b>Note to physician</b>    | Treat symptomatically.  |

### **Most important symptoms and effects, both acute and delayed**

Inhalation: no symptoms are known.

Skin contact: may be degreasing after repeated contact, redness and fine cracks in the skin may occur.

Eye contact: temporary eye irritation/redness.

Ingestion: no known adverse health effects.

---

## **5. Fire fighting measures**

|                                     |  |
|-------------------------------------|--|
| <b>Suitable extinguishing media</b> | Use fire-extinguishing media appropriate for surrounding materials.  |
| <b>Specific hazards</b>             | This product is not flammable.<br>Hazardous combustion products can include, but are not limited to: carbon dioxide (CO <sub>2</sub> ) and carbon monoxide (CO). |
| <b>Special protective equipment</b> | Self-contained breathing apparatus may be required by rescue workers. In case of evacuation, use escape mask where possible.                                     |
| <b>Further Information</b>          | Extinguishing water must not be discharged into drains. Extinguishing water must be disposed of in accordance with local regulations                             |

---

## **6. Accidental release measures**

|   |   |
|---|---|
| <b>Personal precautions:</b>              | Ventilate well. Use protective equipment as referred to in section 8.   |
| <b>Environmental precautions:</b>         | Do not allow to enter into sewer, water system or soil.   |
| <b>Methods for cleaning up/taking up:</b> | <u>Small quantities:</u> They can be dissolved/diluted in water and flushed to drain.<br><u>Large Spillages:</u> Absorb spillage with suitable absorbent material. Collect in suitable containers and deliver as waste according to section 13. |

---

## **7. Handling and storage**

|                            |   |
|----------------------------|---|
| <b>Handling</b>            | Avoid contact with eyes and skin. Do not mix with other chemicals.  |
| <b>Protective Measures</b> | Wash hands after contact with the product. Change contaminated clothing and take off protective equipment before the meal. Do not smoke, drink or eat in the workplace.   |
| <b>Storage</b>             | Store in tightly closed container. Store in a dark place. When stored outside, care should be taken to avoid environmental contamination in the event of leakage. Incompatible materials: galvanized steel, zinc and soft solder. |

---

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

|   |   |
|---|---|
| <b>Control parameters</b>                         | Contains no substances with occupational exposure limit values.   |
| <b>Exposure controls</b>                          | Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. Eye wash facilities should be available when handling this product. |
| <b>Respiratory protection</b>                     | Normally not required.  |
| <b>Hands</b>                                      | In case of repeated or prolonged contact, use resistant plastic gloves. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.  |
| <b>Eyes</b>                                       | Use safety goggles or face shield in case of splash risk.   |
| <b>Skin</b>                                       | Ordinary workwear.  |
| <b>Appropriate environmental exposure control</b> | Do not allow to enter into sewer, water system or soil.   |

---

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

|   |  |
|---|--|
| <b>Physical state</b>                           | Clear liquid                                 |
| <b>Color</b>                                    | Colorless to pale yellowish.                 |
| <b>Odour</b>                                    | Characteristic.                              |
| <b>pH</b>                                       | 8-9  |
| <b>Melting point/range</b>                      | -20°C  |
| <b>Boiling point</b>                            | 109°C  |
| <b>Flash point</b>                              | Not applicable. Not combustible.             |
| <b>Evaporation rate</b>                         | Not determined.                              |
| <b>Explosion limit</b>                          | Not explosive.                               |
| <b>Vapour pressure</b>                          | Not determined.                              |
| <b>Vapour density</b>                           | Not determined.                              |
| <b>Specific gravity</b>                         | 1086-1260 kg/m <sup>3</sup>                  |
| <b>Solubility description</b>                   | Completely soluble in water.                 |
| <b>Partition coefficient: n-octanol / water</b> | Not relevant for a mixture.                  |
| <b>Spontaneous combustability</b>               | Not applicable. Not spontaneously flammable. |
| <b>Decomposition temperature</b>                | Not determined.                              |
| <b>Dynamic viscosity</b>                        | 1-5 mPas.                                    |
| <b>Explosive properties</b>                     | No explosive properties.                     |
| <b>Oxidizing properties</b>                     | Not determined.                              |

---

## **10. Stability and reactivity**

|   |   |
|---|---|
| <b>Reactivity</b>                         | Stable under normal temperature conditions and recommended use. |
| <b>Chemical stability</b>                 | Stable under normal temperature conditions and recommended use. |
| <b>Possibility of hazardous reactions</b> | No hazardous reactions known.                                   |
| <b>Conditions to avoid</b>                | No special conditions to avoid.                                 |
| <b>Incompatible materials</b>             | Galvanized steel, zinc and soft solder.                         |
| <b>Hazardous decomposition products</b>   | None under normal conditions.<br>See also section 5.2.          |

---

## **11. Toxicological data**

### **Toxicological Information**

LD50 (oral, rat) > 5000 mg/kg

Toxicological information about the ingredients: Potassium acetate, CAS-nr 127-08-2:

LD50 (oral, rat) = 3250 mg/kg

Source: Prevent data base "Kemiska ämnen"

Potassium formate, CAS-nr 590-29-4:

LD50 (oral, mouse) = 5500 mg/kg

Source: Prevent data base "Kemiska ämnen"

**Potential acute effects**

Inhalation: No symptoms are known.

Skin contact: May be degreasing after frequent contact. Redness and fine cracks in the skin may occur.

Eye contact: May cause temporary eye irritation.

Ingestion: Low acute toxicity. No harmful effects expected in amounts likely to be ingested by accident. The bitter taste of the product makes accidental ingestion unlikely.

**Delayed effects / repeated exposure**

Sensitisation: Based on available data, the classification criteria are not met.

Repeated dose toxicity: Based on available data, the classification criteria are not met.

**Carcinogenic, mutagenic or reprotoxic effects**

Carcinogenicity: Based on available data, the classification criteria are not met.

Mutagenicity: Based on available data, the classification criteria are not met.

Teratogenic properties: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

---

**12. Ecological data****Ecotoxicity**

LC50 (fish, 96h): 13900 mg/l [species: *Oncorhynchus mykiss*] OECD TG203

The product is not classified as dangerous for the environment.

**Persistence and degradability**

DOC 99% after 28 days (OECD 301A).

The components contained in the product are readily biodegradable.

**Bioaccumulative potential**

Will not bio-accumulate.

**Mobility in soil**

Soluble in water.

**Results of PBT and vPvB assessment**

The mixture does not meet current criteria for PBT (Persistent, bioaccumulative and toxic) or vPvB (very persistent and very bioaccumulative).

**Other adverse effects**

Do not allow to enter into sewer, water system or soil. Most of the components in the product act as fertilizers.

---

## **13. Disposal considerations**

### **Waste treatment methods**

Confirm disposal procedures with environmental engineer and local regulations.

Waste code (EWC)

16 05 09 discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08

Other Information

The waste code is intended as a guide. The user must select a code if the use differs from the one mentioned above.

---

## **14. Transport information**

Not classified as hazardous under transport regulations.

(ADR / RID / ADNR / IMDG/GGVSee ICIAO/IATA)

---

## **15. Regulatory information**

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

Hazard symbol

H-phrases:

P-phrases:

---

## **16. Further information**

### **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.

No liability for damage occurred in connection with the use of this information or with the use, application, adaptation or processing the products here described will be accepted. No liability will be accepted for damage indirectly incurred.

We provide this information data according to our present level of knowledge and experience. No assurances concerning the characteristics of our product are hereby furnished.