



## SAFETY DATA SHEET

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

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

Product identifiers

Product name           Thermosol Concentrated

Product Number

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

Identified uses       Coolant - Antifreze.

#### Details of the supplier of the safety data sheet

Company                Sucesores de Carmelo Pérez Martínez S.L.  
Ctra. Castellón Km 3,7 Pol. Ind. La Unión, 3  
ES-50.013 Zaragoza (Spain)

Telephone             +34 976 42 18 50

Fax

E-mail address        carpemar@carpemar.com

Emergency telephone number

Emergency Phone     :       +34 91 562 04 20

---

### SECTION 2: Hazards identification

#### Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008 (CLP).

This product is not classified as dangerous according to Directive 67/548/EEC.

#### Label elements

The product does not need to be labelled in accordance with EC directives or respective national laws.

#### Other hazards:

None



---

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Triethylene glycol with additives.

Nombre químico	CAS-No	Nº CEE	%
Triethylene glycol	112-27-6	203-953-2	>90

---

## SECTION 4: First aid measures

### Description of first aid measures General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of any immediate medical attention and special treatment needed no data available

---

## SECTION 5: Firefighting measures

### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture

Carbon oxides

### Advice for firefighters

Wear self contained breathing apparatus for fire-fighting if necessary.

### Further information

No data available



---

## **SECTION 6: Accidental release measures**

### Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. For personal protection see section 8.

### Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

### Reference to other sections

For disposal see section 13.

---

## **SECTION 7: Handling and storage**

### Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. For precautions see section 2.2.

### Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Hygroscopic.

### Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

---

## **SECTION 8: Exposure controls/personal protection**

### Control parameters

### Components with workplace control parameters

### Exposure controls

### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### Personal protective equipment Eye/face protection



Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

#### Full contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact Material: Nitrile rubber

Minimum layer thickness: 0,11 mm Break through time: 480 min

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

#### Body Protection

impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Control of environmental exposure

Do not let product enter drains.

---

## **SECTION 9: Physical and chemical properties**

Information on basic physical and chemical properties

**Appearance**

Form: clear, viscous liquid

**Colour:**

Red



<b>Odour</b>	no data available
<b>Odour Threshold</b>	no data available
<b>pH</b>	7-9.5
<b>Melting point/freezing point</b>	Aprox -22°C
<b>Boiling point</b>	>180°C
<b>Melting point/range:</b>	-22 °C
<b>Flash point</b>	>166 °C - closed cup
<b>Evaporation rate</b>	no data available
<b>Flammability (solid, gas)</b>	no data available
<b>Upper/lower flammability or explosive limits</b>	
<b>Upper explosion limit:</b>	9,2 % (V)
<b>Lower explosion limit:</b>	0,9 % (V)
<b>Vapour pressure</b>	< 1 hPa at 20 °C
<b>Vapour density</b>	5,18 - (Air = 1.0)
<b>Relative density</b>	1,11 – 1,13 g/cm <sup>3</sup> at 20 °C
<b>Water solubility</b>	completely miscible
<b>Partition coefficient:</b>	n- octanol/water
<b>Auto-ignition temperature</b>	
<b>Decomposition temperature</b>	347 °C
<b>Viscosity:</b>	no data available
<b>Explosive properties</b>	no data available
<b>Oxidizing properties</b>	no data available
<b>Other safety information</b>	
<b>Relative vapour density</b>	5,18 - (Air = 1.0)

---

## SECTION 10: Stability and reactivity

### Reactivity

no data available

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

no data available

### Conditions to avoid

no data available

### Incompatible materials

Strong oxidizing agents, Acids and bases

### Hazardous decomposition products

Other decomposition products – no data available In the event of fire: see section 5

---



## **SECTION 11: Toxicological information**

### **Data for Triethylene glycol**

#### 11.1 Information on toxicological effects Acute toxicity

LD50 Oral - rat - 17.000 mg/kg

LD50 Dermal - rabbit - > 22.500 mg/kg

#### Inhalation:

Respiratory disorder

#### Skin corrosion/irritation

Skin - Human

Result: Mild skin irritation (Patch Test 24 Hrs.)

Skin - rabbit

Result: Mild skin irritation - 24 h

#### Serious eye damage/eye irritation

Eyes - rabbit

Result: Mild eye irritation

#### Respiratory or skin sensitisation

No data available

#### Germ cell mutagenicity

No data available

#### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

#### Reproductive toxicity

Reproductive toxicity - mouse - Oral

Effects on Newborn: Growth statistics (e.g., reduced weight gain).

Reproductive toxicity - mouse - Oral Effects on Newborn: Physical.

Developmental Toxicity - rat - Oral

#### Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).

no data available

#### Specific target organ toxicity - single exposure

No data available

#### Specific target organ toxicity - repeated exposure

no data available



Aspiration hazard

No data available

Additional Information

---

**SECTION 12: Ecological information**

**Data for Triethylene glycol**

Toxicity

**Toxicity to fish** LC50 - Leuciscus idus (Golden orfe) - > 100 mg/l - 96 h

**Toxicity to daphnia and other aquatic invertebrates**

EC50 - Daphnia magna (Water flea) - 46.500 mg/l - 48 h

**Toxicity to algae**

Remarks: no data available

**Persistence and degradability**

Biodegradability Result: > 70 % - Readily biodegradable.

Bioaccumulative potential

No bioaccumulation is to be expected (log Pow <= 4).

**Mobility in soil**

No data available

**Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**Other adverse effects**

no data available

---

**SECTION 13: Disposal considerations**

13.1 Wastreatment methods Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.



---

## **SECTION 14: Transport information**

UN number

ADR/RID:

Not dangerous goods

IATA: -

Not dangerous goods

IMDG:

Not dangerous goods

---

## **SECTION 15: Regulatory information**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

---

## **SECTION 16: Other information further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product