



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## HS Eurosept® Plus Thermo Powder **No Change Service!**

Version  
04.02

Revision Date:  
25.01.2017

Date of last issue: 02.08.2016  
Date of first issue: 21.07.2004

P337+P313 present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/  
attention.

Special labelling of certain mixtures : Labelling according to Regulation (EC) No. 648/2004: (>30% Phosphates, < 5 % non-ionic surfactants)

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

No special risks known.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Mixture with the following substances and non dangerous additives.

#### Hazardous components

Chemical name	Index-Number CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
Sodium carbonate	011-005-00-2 497-19-8 207-838-8 01-2119485498-19-XXXX	Eye Irrit. 2; H319	15 - 30
Alkylpolyethylen-glycol-polybutylen-glycoether	- - - 144046-60-6 Polymer	Skin Irrit. 2; H315 Eye Dam. 1; H318	< 5
Alcohols, C13-15-branched and linear, butoxylated ethoxylated	- - - 111905-53-4 Polymer	Acute Tox. 4; H302 Eye Irrit. 2; H319 Aquatic Chronic 3; H412	< 5
Trisodiumorthophosphate	- - - 7601-54-9 231-509-8 01-2119489800-32-XXXX	Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335	5 - 15

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

If inhaled : Move to fresh air. If symptoms persist, call a physician.  
In case of skin contact : Wash with water and soap as a precaution.  
In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
If swallowed : Obtain medical attention.

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

Symptoms                                      : Treat symptomatically.,

### **4.3 Indication of any immediate medical attention and special treatment needed**

Treatment                                      : For specialist advice physicians should contact the Poisons Information Service.

## **SECTION 5: Firefighting measures**

### **5.1 Extinguishing media**

Suitable extinguishing media              : Water, Dry powder, Foam, Carbon dioxide (CO2)

Unsuitable extinguishing media            : No information available.

### **5.2 Special hazards arising from the substance or mixture**

Specific hazards during fire-fighting      : none

Specific risk from the substance or the product itself, its combustion products or evolved gases                      : No special risks to be expected.

### **5.3 Advice for firefighters**

Special protective equipment for firefighters                      : No special precautions required.

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

### **6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions                                      : Avoid dust formation.

### **6.2 Environmental precautions**

Environmental precautions                              : Do not flush into surface water.

### **6.3 Methods and material for containment and cleaning up**

Methods for cleaning up                                      : Use mechanical handling equipment.

### **6.4 Reference to other sections**

see Section 8 + 13

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

### **7.1 Precautions for safe handling**

Advice on safe handling                                      : Prepare the working solution as given on the label(s) and/or the user instructions.

Advice on protection against fire and explosion                      : No special protective measures against fire required.

Hygiene measures    : Keep away from food and drink.

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### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store at room temperature in the original container.  
Further information on storage conditions : Store in a dry place. Keep container tightly closed.  
Advice on common storage : Do not store near acids.

### 7.3 Specific end use(s)

Specific use(s) : none

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

none

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Sodium carbonate	Workers	Inhalation	Long-term exposure	10 mg/m <sup>3</sup>
Trisodium orthophosphate	Workers	Inhalation	Long-term exposure, Systemic effects	4,07 mg/m <sup>3</sup>

### 8.2 Exposure controls

#### Personal protective equipment

Eye protection : Safety glasses with side-shields conforming to EN166  
Hand protection : Prolonged contact: Nitrile rubber gloves e.g. Camatril (>480 Min., layer thickness: 0,40 mm) or butyl rubber gloves e.g. Butoject (>480 Min., layer thickness: 0,70 mm) made by KCL or gloves from other manufacturers offering the same protection.  
Protective measures : Avoid contact with eyes.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : granular  
Colour : white  
Odour : nearly odourless  
Odour Threshold : not determined  
pH : ca. 11, Concentration: 3 g/l, 20 °C, in water  
Melting point/freezing point : No data available  
Decomposition temperature : No data available  
Boiling point/boiling range : Not applicable  
Flash point : Not applicable  
Evaporation rate : No data available  
Flammability (solid, gas) : No data available  
Upper explosion limit : Not applicable  
Lower explosion limit : Not applicable  
Vapour pressure : No data available

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Relative vapour density                      : No data available  
Bulk density                                      : 650 - 770 kg/m<sup>3</sup>  
Solubility(ies)  
    Water solubility                              : > 20 g/l , 20 °C  
Partition coefficient: n-  
octanol/water                                      : Not applicable  
Viscosity  
    Viscosity, dynamic                              : Not applicable  
Explosive properties                              : Not explosive  
Oxidizing properties                              : Not applicable

### **9.2 Other information**

No data available

## **SECTION 10: Stability and reactivity**

### **10.1 Reactivity**

No dangerous reaction known under conditions of normal use.

### **10.2 Chemical stability**

The product is chemically stable.

### **10.3 Possibility of hazardous reactions**

reaction with acids

### **10.4 Conditions to avoid**

Avoid dust formation. Exposure to moisture

### **10.5 Incompatible materials**

Possible incompatibility with alkali sensitive materials.,

### **10.6 Hazardous decomposition products**

None reasonably foreseeable.

## **SECTION 11: Toxicological information**

### **11.1 Information on toxicological effects**

#### **Acute toxicity**

##### **Product:**

Acute oral toxicity                              : Acute toxicity estimate: 4.350 mg/kg

##### **Components:**

###### **Sodium carbonate:**

Acute inhalation toxicity                      : LC50 (Rat): 2,3 mg/l, 2 h, OECD Test Guideline 403

Acute dermal toxicity                              : LD50 (Rabbit): > 2.000 mg/kg

###### **Alkylpolyethylen-glycol-polybutylen-glycolether:**

Acute inhalation toxicity                      : LC50 (Rat): , 8 h, An LC50/ inhalation could not be determined because no mortality of rats was observed at the maximum achievable concentration.

Acute dermal toxicity                              : No data available

###### **Alcohols, C13-15-branched and linear, butoxylated ethoxylated:**

Acute inhalation toxicity                      : not determined

Acute dermal toxicity                              : not determined

###### **Trisodiumorthophosphate:**

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Acute inhalation toxicity                      : LC50 (Rat): > 0,83 mg/l, 4 h, dust/mist, OECD Test Guideline 403, GLP: yes, An LC50/ inhalation could not be determined because no mortality of rats was observed at the maximum achievable concentration.

Acute dermal toxicity                          : LD50 (Rat): > 2.000 mg/kg, OECD Test Guideline 402

### **Skin corrosion/irritation**

#### **Product:**

Causes skin irritation., Calculation method

### **Serious eye damage/eye irritation**

#### **Product:**

Causes serious eye irritation., Calculation method

### **Respiratory or skin sensitisation**

#### **Components:**

##### **Sodium carbonate:**

No data available

##### **Alkylpolyethylen-glycol-polybutylen-glycolether:**

No data available

##### **Alcohols, C13-15-branched and linear, butoxylated ethoxylated:**

No data available

##### **Trisodiumorthophosphate:**

Did not cause sensitisation on laboratory animals.Mouse

### **Germ cell mutagenicity**

#### **Components:**

##### **Sodium carbonate:**

Germ cell mutagenicity- As-                      : Contains no ingredient listed as a mutagen  
sessment

##### **Alkylpolyethylen-glycol-polybutylen-glycolether:**

Germ cell mutagenicity- As-                      : No data available  
sessment

##### **Alcohols, C13-15-branched and linear, butoxylated ethoxylated:**

Germ cell mutagenicity- As-                      : No data available  
sessment

##### **Trisodiumorthophosphate:**

Germ cell mutagenicity- As-                      : No data available  
sessment

### **Carcinogenicity**

#### **Components:**

##### **Sodium carbonate:**

Carcinogenicity - Assess-                      : No evidence of carcinogenicity in animal studies.  
ment

##### **Alkylpolyethylen-glycol-polybutylen-glycolether:**

Carcinogenicity - Assess-                      : No data available  
ment

##### **Alcohols, C13-15-branched and linear, butoxylated ethoxylated:**

Carcinogenicity - Assess-                      : No data available  
ment

##### **Trisodiumorthophosphate:**

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Carcinogenicity - Assessment : No data available

### **Reproductive toxicity**

#### **Components:**

##### **Sodium carbonate:**

Reproductive toxicity - Assessment : Contains no ingredient listed as toxic to reproduction

##### **Alkylpolyethylen-glycol-polybutylen-glycolether:**

Reproductive toxicity - Assessment : No data available

##### **Alcohols, C13-15-branched and linear, butoxylated ethoxylated:**

Reproductive toxicity - Assessment : No data available

##### **Trisodiumorthophosphate:**

Reproductive toxicity - Assessment : No data available

### **STOT - single exposure**

#### **Components:**

##### **Sodium carbonate:**

The substance or mixture is not classified as specific target organ toxicant, single exposure.

##### **Trisodiumorthophosphate:**

Inhalation, Respiratory Tract, May cause respiratory irritation.

### **STOT - repeated exposure**

#### **Components:**

##### **Sodium carbonate:**

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### **Aspiration toxicity**

No data available

### **Further information**

#### **Product:**

No data is available on the product itself.

## **SECTION 12: Ecological information**

### **12.1 Toxicity**

#### **Components:**

##### **Sodium carbonate:**

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 300 mg/l, 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna): 200 - 227 mg/l, 48 h

Toxicity to algae : No data available

##### **Alkylpolyethylen-glycol-polybutylen-glycolether:**

Toxicity to fish : LC50 (Leuciscus idus): 1 - 10 mg/l, 96 h

Toxicity to daphnia and other aquatic invertebrates : No data available

Toxicity to algae : No data available

##### **Alcohols, C13-15-branched and linear, butoxylated ethoxylated:**

Toxicity to fish : LC50 (Leuciscus idus): 1 - 10 mg/l, 48 h

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Toxicity to daphnia and other aquatic invertebrates : EC50 : 0,1 - 1 mg/l, 48 h  
Toxicity to algae : EC50 : 0,1 - 1 mg/l, 72 h  
Toxicity to fish (Chronic toxicity) : No data available  
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: > 0,1 - 1 mg/l  
**Trisodiumorthophosphate:**  
Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l, OECD Test Guideline 203  
Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l, 48 h, OECD Test Guideline 202  
Toxicity to algae : EC50 (Desmodesmus subspicatus (Scenedesmus subspicatus)): > 100 mg/l, 72 h, OECD Test Guideline 201

### 12.2 Persistence and degradability

#### **Product:**

Biodegradability : Readily biodegradable., OECD 301D / EEC 84/449 C6

#### **Components:**

##### **Sodium carbonate:**

Biodegradability : The methods for determining the biological degradability are not applicable to inorganic substances.

##### **Alkylpolyethylen-glycol-polybutylen-glycolether:**

Biodegradability : Readily biodegradable, according to appropriate OECD test., OECD 302B/ ISO 9888/ EEC 88/302C

##### **Alcohols, C13-15-branched and linear, butoxylated ethoxylated:**

Biodegradability : Readily biodegradable., Biodegradation: > 60 %, Exposure time: 28 d, OECD 301B/ ISO 9439/ EEC 84/449 C5

##### **Trisodiumorthophosphate:**

Biodegradability : No data available

### 12.3 Bioaccumulative potential

#### **Components:**

##### **Sodium carbonate:**

Bioaccumulation : Does not bioaccumulate.

##### **Alkylpolyethylen-glycol-polybutylen-glycolether:**

Bioaccumulation : No data available

##### **Alcohols, C13-15-branched and linear, butoxylated ethoxylated:**

Bioaccumulation : Does not significantly accumulate in organisms.

##### **Trisodiumorthophosphate:**

Bioaccumulation : No data available

### 12.4 Mobility in soil

#### **Components:**

##### **Sodium carbonate:**

Mobility : No data available

##### **Alkylpolyethylen-glycol-polybutylen-glycolether:**

Mobility : No data available

##### **Alcohols, C13-15-branched and linear, butoxylated ethoxylated:**

Mobility : Substance does not evaporate from water surface into the atmosphere., Adsorption to solid soil phase is possible.

##### **Trisodiumorthophosphate:**



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Mobility                      : No data available

### **12.5 Results of PBT and vPvB assessment**

#### **Product:**

Assessment                      : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### **12.6 Other adverse effects**

No data available

## **SECTION 13: Disposal considerations**

### **13.1 Waste treatment methods**

Product                      : Can be incinerated or landfilled together with household waste in compliance with the regulations, and after consultation with the waste disposal services.  
Contaminated packaging                      : Take empty packaging to the recycling plant.

## **SECTION 14: Transport information**

### **14.1 UN number**

Not regulated as a dangerous good

### **14.2 UN proper shipping name**

Not regulated as a dangerous good

### **14.3 Transport hazard class(es)**

Not regulated as a dangerous good

### **14.4 Packing group**

Not regulated as a dangerous good

### **14.5 Environmental hazards**

Not regulated as a dangerous good

### **14.6 Special precautions for user**

For personal protection see section 8.

### **14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

## **SECTION 15: Regulatory information**

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59)                      : Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants                      : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accidents                      : Not applicable

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accident hazards involving dangerous substances.

Volatile organic compounds : none, Directive 1999/13/EC on the limitation of emissions of volatile organic compounds

Other regulations : The surfactant(s) contained in this mixture complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer. 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. Take note of Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values.

### 15.2 Chemical safety assessment

Exempt

### SECTION 16: Other information

#### Full text of H-Statements

H302 : Harmful if swallowed.  
H315 : Causes skin irritation.  
H318 : Causes serious eye damage.  
H319 : Causes serious eye irritation.  
H335 : May cause respiratory irritation.  
H412 : Harmful to aquatic life with long lasting effects.

#### Full text of other abbreviations

Acute Tox. : Acute toxicity  
Aquatic Chronic : Chronic aquatic toxicity  
Eye Dam. : Serious eye damage  
Eye Irrit. : Eye irritation  
Skin Irrit. : Skin irritation  
STOT SE : Specific target organ toxicity - single exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration

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to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### **Further information**

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) No. 1272/2008

Skin Irrit. 2, H315	: Calculation method
Eye Irrit. 2, H319	: Calculation method

|| Changes compared with the previous edition!!!

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