

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

HS Eurosept® Plus Thermo Cleanser *No Change Service!*

Version
02.02

Revision Date:
25.01.2017

Date of last issue: 02.08.2016
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P337+P313

several minutes. Remove contact lenses, if 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: (< 5 % anionic surfactants, < 5 % non-ionic surfactants, < 5% Polycarboxylates, < 5 % NTA (nitrilotriacetic acid) and salts thereof,, enzymes)

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 : Solution of the following substances with harmless additives.

Hazardous components

Chemical name	Index-Number CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
Sodim-etasulfate	- - - 126-92-1 204-812-8 01-2119971586-23-XXXX	Skin Irrit. 2; H315 Eye Dam. 1; H318	< 5
Trisodiumnitrilotriacetate	607-620-00-6 5064-31-3 225-768-6 01-2119519239-36-XXXX	Acute Tox. 4; H302 Eye Irrit. 2; H319 Carc. 2; H351	< 5
Sodium cumenesulfonate	- - - 15763-76-5 239-854-6 01-2119489411-37-XXXX	Eye Irrit. 2; H319	< 5
Silic acid, potassium salt	- - - 1312-76-1 215-199-1 01-2119456888-17-XXXX	Skin Irrit. 2; H315 Eye Irrit. 2; H319	< 5

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Potassium hydroxide	019-002-00-8 1310-58-3 215-181-3 01-2119487136-33-XXXX	Met. Corr. 1; H290 Acute Tox. 4; H302 Skin Corr. 1A; H314	< 2
Alcohols, C13-15-branched and linear, butoxylated ethoxylated	- - - 111905-53-4 Polymer	Acute Tox. 4; H302 Eye Irrit. 2; H319 Aquatic Chronic 3; H412	< 1

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Take off all contaminated clothing immediately.
In case of skin contact : Wash off immediately with plenty of water.
In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. If eye irritation persists, consult a specialist.
If swallowed : Do NOT induce vomiting. Drink water as a precaution. If symptoms persist, call a physician.

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 : Dry powder, Carbon dioxide (CO₂), Foam, Water spray jet
Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

- Specific hazards during fire-fighting : No information available.
Specific risk from the substance or the product itself, its combustion products or evolved gases : Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x)

5.3 Advice for firefighters

- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

6.2 Environmental precautions

Environmental precautions : Avoid subsoil penetration.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

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 : Never mix concentrates directly.
Advice on protection against fire and explosion : No special protective measures against fire required.
Hygiene measures : Keep away from food and drink.

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 : Keep away from heat. Keep away from direct sunlight. 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
Sodim-etasulfate	Workers	Skin contact	Long-term systemic effects	4060 mg/kg
	Workers	Inhalation	Long-term systemic effects	285 mg/m3
Trisodiumnitrilotriacetate	Workers	Inhalation	Short-term exposure, Systemic effects, Local effects	5,25 mg/m3
	Workers	Inhalation	Long-term exposure, Systemic effects,	3,5 mg/m3

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			Local effects	
Sodium cumenesulfonate	Workers	Skin contact	Long-term systemic effects	7,6 mg/kg
	Workers	Inhalation	Long-term systemic effects	53,6 mg/m ³

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Sodim-etasulfate	Fresh water	0,1357 mg/l
	Marine water	0,0136 mg/l
	Fresh water sediment	1,5 mg/kg
	Marine sediment	0,15 mg/kg
	Soil	0,22 mg/kg
	Effects on waste water treatment plants	1,35 mg/l
Trisodiumnitrilotriacetate	Fresh water	0,93 mg/l
	Marine water	0,093 mg/l
	Fresh water sediment	3,64 mg/kg
	Marine sediment	0,364 mg/kg
	Sewage treatment plant	540 mg/l
	Intermittent use/release	0,915 mg/l
Sodium cumenesulfonate	Soil	0,182 mg/kg
	Fresh water	0,23 mg/l
	Intermittent use/release	2,3 mg/l
	Sewage treatment plant	100 mg/l

8.2 Exposure controls

Personal protective equipment

Eye protection : Safety glasses with side-shields conforming to EN166

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

Remarks : Splash protection: disposable nitrile rubber gloves e.g. Dermatril (layer thickness: 0.11 mm) made by KCL or gloves from other manufacturers offering the same 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.

Respiratory protection : No personal respiratory protective equipment normally required.

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Protective measures : Avoid contact with skin and eyes.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid
Colour : nearly colourless
Odour : characteristic
Odour Threshold : not determined
pH : 12 - 12,8, 20 °C, concentrate
Melting point/freezing point : < -5 °C
Decomposition temperature : Not applicable
Boiling point/boiling range : ca. 100 °C
Flash point : > 70 °C, DIN 51755 Part 1
 Other information: Does not sustain combustion.
Evaporation rate : No data available
Flammability (solid, gas) : Not applicable
Upper explosion limit : No data available
Lower explosion limit : No data available
Relative vapour density : No data available
Density : 1,1 g/cm³, 20 °C
Solubility(ies)
 Water solubility : in all proportions , 20 °C
Partition coefficient: n-
octanol/water : Not applicable
Viscosity
 Viscosity, dynamic : ca. 3 mPa*s, ISO 3219
Explosive properties : Not applicable
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

Protect from frost, heat and sunlight.

10.5 Incompatible materials

Possible incompatibility with alkali sensitive materials.,

10.6 Hazardous decomposition products

None reasonably foreseeable.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate: > 5.000 mg/kg
Acute inhalation toxicity : Acute toxicity estimate: > 50 mg/l
Acute dermal toxicity : Acute toxicity estimate: > 15.000 mg/kg

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:

Sodim-etasulfate:

Did not cause sensitisation on laboratory animals.OECD Test Guideline 429

Trisodiumnitrilotriacetate:

Did not cause sensitisation on laboratory animals.Guinea pig, OECD Test Guideline 406

Sodium cumenesulfonate:

Did not cause sensitisation on laboratory animals.Buehler Test, Guinea pig, OECD Test Guideline 406

Silic acid, potassium salt:

No data available

Potassium hydroxide:

Did not cause sensitisation on laboratory animals.Guinea pig

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

No data available

Germ cell mutagenicity

Components:

Sodim-etasulfate:

Germ cell mutagenicity- Assessment : No data available

Trisodiumnitrilotriacetate:

Germ cell mutagenicity- Assessment : Animal testing did not show any mutagenic effects.

Sodium cumenesulfonate:

Genotoxicity in vitro : Mutagenicity (Salmonella typhimurium - reverse mutation assay), with and without metabolic activation, OECD Test Guideline 471, Not mutagenic in Ames Test

Genotoxicity in vivo : In vivo micronucleus test, Mouse, Oral, not mutagenic

Germ cell mutagenicity- Assessment : Not mutagenic in Ames Test

assessment

Silic acid, potassium salt:

Germ cell mutagenicity- Assessment : No data available

assessment

Potassium hydroxide:

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Genotoxicity in vitro : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Germ cell mutagenicity- Assessment : Animal testing did not show any mutagenic effects.

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

Germ cell mutagenicity- Assessment : No data available

Carcinogenicity

Components:

Sodim-etasulfate:

Carcinogenicity - Assessment : No data available

Trisodiumnitrilotriacetate:

Carcinogenicity - Assessment : Limited evidence of a carcinogenic effect.

Sodium cumenesulfonate:

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

Silic acid, potassium salt:

Carcinogenicity - Assessment : No data available

Potassium hydroxide:

Carcinogenicity - Assessment : No data available

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

Carcinogenicity - Assessment : No data available

Reproductive toxicity

Components:

Sodim-etasulfate:

Reproductive toxicity - Assessment : No data available

Trisodiumnitrilotriacetate:

Reproductive toxicity - Assessment : Animal testing did not show any effects on fertility.

Sodium cumenesulfonate:

Effects on foetal development : Rat, Oral, NOAEL: 3.000 mg/kg, NOAEL: 3.000 mg/kg

Reproductive toxicity - Assessment : study scientifically unjustified

Silic acid, potassium salt:

Reproductive toxicity - Assessment : No data available

Potassium hydroxide:

Reproductive toxicity - Assessment : No data available

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

Reproductive toxicity - Assessment : No data available

STOT - single exposure

Components:

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Trisodiumnitrilotriacetate:

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

STOT - repeated exposure

Components:

Trisodiumnitrilotriacetate:

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

Repeated dose toxicity

Components:

Sodium cumenesulfonate:

Mouse, NOAEL: 440 mg/kg, LOAEL: 1.300 mg/kg, Dermal, Target Organs: Skin, Subchronic toxicity

Aspiration toxicity

No data available

Further information

Product:

No data is available on the product itself.

SECTION 12: Ecological information

12.1 Toxicity

Components:

Sodim-etasulfate:

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 100 mg/l, 96 h

Toxicity to daphnia and other : EC50 (Daphnia (water flea)): > 100 mg/l, 48 h

aquatic invertebrates

Toxicity to algae : EC50 (Desmodesmus subspicatus (Scenedesmus subspicatus)): > 100 mg/l, 72 h

Trisodiumnitrilotriacetate:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l, 96 h

Toxicity to daphnia and other : EC50 (Gammarus salinus (seawater shrimp)): 98 mg/l, 96 h

aquatic invertebrates

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 91,5

mg/l, 72 h, Directive 67/548/EEC, Annex V, C.3.

Sodium cumenesulfonate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l, 96 h, literature value

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 100 mg/l, 48 h

aquatic invertebrates

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l, 72 h

Silic acid, potassium salt:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 301 - 478 mg/l, 96 h

Toxicity to daphnia and other : EC0 (Daphnia magna (Water flea)): > 500 mg/l, 24 h

aquatic invertebrates

Toxicity to algae : No data available

Potassium hydroxide:

Toxicity to fish : LC50 (Gambusia affinis (Mosquito fish)): 80 mg/l, 96 h

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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
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

12.2 Persistence and degradability

Product:

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

Components:

Sodim-etasulfate:

Biodegradability : Readily biodegradable, according to appropriate OECD test., OECD 301D / EEC 84/449 C6

Trisodiumnitrilotriacetate:

Biodegradability : Readily biodegradable.

Sodium cumenesulfonate:

Biodegradability : Readily biodegradable.

Silic acid, potassium salt:

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

Potassium hydroxide:

Biodegradability : The methods for determining biodegradability are not applicable to inorganic substances.

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

12.3 Bioaccumulative potential

Components:

Sodim-etasulfate:

Bioaccumulation : No data available

Trisodiumnitrilotriacetate:

Bioaccumulation : Brachidanio rerio, 96 d, Bioconcentration factor (BCF): < 3, No bioaccumulation is to be expected (log Pow <= 4)., Does not significantly accumulate in organisms.

Sodium cumenesulfonate:

Bioaccumulation : Bioaccumulation is unlikely.

Silic acid, potassium salt:

Bioaccumulation : completely soluble

Potassium hydroxide:

Bioaccumulation : Does not bioaccumulate.

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

Bioaccumulation : Does not significantly accumulate in organisms.

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12.4 Mobility in soil

Components:

Sodim-etasulfate:

Mobility : No data available

Trisodiumnitrilotriacetate:

Mobility : Substance does not evaporate from water surface into the atmosphere., Not expected to adsorb on soil.

Sodium cumenesulfonate:

Mobility : Not expected to adsorb on soil.

Silic acid, potassium salt:

Mobility : No data available

Potassium hydroxide:

Mobility : Mobile in soils

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.

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

Product:

Additional ecological information : none

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Dispose of the product according to the defined EWC (European Waste Code) No.
Contaminated packaging : Take empty packaging to the recycling plant.
Waste key for the unused product : European waste catalog (EWC) 070601
Waste key for the unused product(Group) : Waste material of HZVA from fats, lubricants, soaps, detergents, disinfectants and personal protection products.

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

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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-accident hazards involving dangerous substances. : Not applicable

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

H290 : May be corrosive to metals.
H302 : Harmful if swallowed.
H314 : Causes severe skin burns and eye damage.
H315 : Causes skin irritation.
H318 : Causes serious eye damage.
H319 : Causes serious eye irritation.
H351 : Suspected of causing cancer.
H412 : Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. : Acute toxicity
Aquatic Chronic : Chronic aquatic toxicity

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material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.