

Material Safety Data Sheet

According to 2001/58/EC

Printing date: 28.07.2006

Reviewed on: 28.07.2006

1 Identification of substance:

* Product details:

* Trade name: **Cool Treat NCLT**

* Application of the substance / the preparation

Water conditioner

Additive

* Manufacturer/Supplier:

Vecom BV

Mozartlaan 3

NL-3144 NA Maassluis

The Netherlands

Website: www.vecom-group.com

* Informing department:

Laboratory

Industrial Safety Department

* Emergency information:



VECOM

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2 Composition/Data on components:

* Chemical characterization

* Description: Mixture of the substances listed below with harmless additions.

* Dangerous components:

CAS: 7632-00-0 EINECS: 231-555-9	sodium nitrite	 T, O, N; R 8-25-50	10-25%
CAS: 1310-58-3 EINECS: 215-181-3	potassium hydroxide	 C; R 22-35	< 2.0%

* Additional information For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

* Hazard designation:



T Toxic

* Information pertaining to particular dangers for man and environment

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 25 Toxic if swallowed.

R 36/38 Irritating to eyes and skin.

* Classification system

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

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4 First aid measures

*** General information**

Take affected persons out of danger area and instruct to lie down.

Instantly remove any clothing soiled by the product.

In case of irregular breathing or respiratory arrest provide artificial respiration.

*** After inhalation** In case of unconsciousness bring patient into stable side position for transport.*** After skin contact**

Instantly wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

*** After eye contact**

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

*** After swallowing** Do NOT induce vomiting; instantly call for medical help.

5 Fire fighting measures

*** Suitable extinguishing agents**

CO₂, extinguishing powder or water jet. Fight larger fires with water jet.

Use fire fighting measures that suit the environment.

*** Protective equipment:** No special measures required.*** Additional information** Cool endangered containers with water spray jet.

6 Accidental release measures

*** Person-related safety precautions:** Not required.*** Measures for environmental protection:**

Dilute with much water.

Do not allow to enter drainage system, surface or ground water.

*** Measures for cleaning/collecting:**

Absorb with liquid-binding material (Oil Adsorbent, sand, diatomite, acid binders, universal binders).

Dispose of contaminated material as waste according to item 13.

Clean the accident area carefully; suitable cleaners are:

warm water

warm water and cleaning agent

7 Handling and storage

*** Handling***** Information for safe handling:** When diluting, always stir the product into standing water.*** Information about protection against explosions and fires:** No special measures required.*** Storage***** Requirements to be met by storerooms and containers:** No special requirements.*** Information about storage in one common storage facility:** Not required.*** Further information about storage conditions:**

Protect from frost.

Keep container tightly sealed.

Protect from heat and direct sunlight.

8 Exposure controls and personal protection

*** Additional information about design of technical systems:** No further data; see item 7.*** Components with limit values that require monitoring at the workplace:****1310-58-3 potassium hydroxide**WEL () Short-term value: 2 mg/m³

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* **Additional information:** The lists that were valid during the compilation were used as basis.

* **Personal protective equipment**

* **General protective and hygienic measures**

The usual precautionary measures should be adhered to general rules for handling chemicals.

Keep away from foodstuffs, beverages and food.

Take off immediately all contaminated clothing

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

* **Breathing equipment:** Not required.

* **Protection of hands:**



Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

* **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

* **Penetration time of glove material**

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

* **Eye protection:**



Tightly sealed safety glasses.

9 Physical and chemical properties:

* **General Information**

* Form:	Fluid
* Colour:	Yellow
* Odour:	Characteristic

* **Change in condition**

* Melting point/Melting range:	- 5°C
* Boiling point/Boiling range:	100°C

* **Flash point:** None

* **Self-inflammability:** Product is not selfigniting.

* **Danger of explosion:** Product is not explosive.

* **Critical values for explosion:**

* Lower:	- Vol %
* Upper:	- Vol %

* **Vapour pressure at 20°C:** 23 hPa

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* Density at 20°C	1.205 g/cm ³
* Solubility in / Miscibility with * Water:	Fully miscible
* pH-value at 20°C:	10.5
* Segregation coefficient (n-octanol/water):	Not applicable.
* Solvent content:	
* Organic solvents:	0.0 %
* Water:	70.0 %
* Solids content:	26.5 %

10 Stability and reactivity

- * **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- * **Dangerous reactions** Reacts with acids
- * **Dangerous products of decomposition:** No dangerous decomposition products known

11 Toxicological information

* Acute toxicity:

* LD/LC50 values that are relevant for classification:

1310-58-3 potassium hydroxide

Oral LD50 365 mg/kg (Rat)

* Primary irritant effect:

* **on the skin:** Irritant to skin and mucous membranes.* **on the eye:** Irritant effect.* **Sensitization:** No sensitizing effect known.

* Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

Toxic
Irritant

12 Ecological information:

* General notes:

In accordance with the requirements of the RVO on the Act on Detergents and Cleansing Agents, tensides are biodegradable up to at least 90 %.

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.

Do not allow product to reach ground water, water bodies or sewage system.

Danger to drinking water if even small quantities leak into soil.

The surfactant(s) contained in this preparation 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.

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

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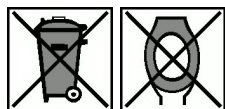
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13 Disposal considerations

*** Product:***** Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Contact manufacturer for recycling information.

Removal of cooling water treated with the product must be disposed in a separate tank with sulfamic acid. Therefor you need 40 ltr of a 5 % sulfamic acid solution for 1000 ltr cooling water containing 1000 mg/

ltr NO₂. The reaction will give nitrogen, so ventilate and mix properly.

*** Uncleaned packagings:**

*** Recommendation:** Packaging can be reused or recycled after cleaning.

*** Recommended cleaning agent:** Water.

14 Transport information

*** Land transport ADR/RID (cross-border)**

*** ADR/RID-GGVS/E Class:** 6.1 Toxic substances.

*** Kemler Number:** 60

*** UN-Number:** 3287

*** Packaging group:** III

*** Label:** 6.1

*** Designation of goods:** 3287 TOXIC LIQUID, INORGANIC, N.O.S. (SODIUM NITRITE)

*** Maritime transport IMDG:**

*** IMDG Class:** 6.1

*** UN Number:** 3287

*** Label:** 6.1

*** Packaging group:** III

*** Correct technical name:** TOXIC LIQUID, INORGANIC, N.O.S. (SODIUM NITRITE)

*** Air transport ICAO-TI and IATA-DGR:**

*** ICAO/IATA Class:** 6.1

*** UN/ID Number:** 3287

*** Label:** 6.1

*** Packaging group:** III

*** Correct technical name:** TOXIC LIQUID, INORGANIC, N.O.S. (SODIUM NITRITE)

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15 Regulatory information

*** Designation according to EC guidelines:**

The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)

*** Code letter and hazard designation of product:**

T Toxic

*** Hazard-determining components of labelling:**

sodium nitrite

*** Risk phrases:**

25 Toxic if swallowed.
36/38 Irritating to eyes and skin.

*** Safety phrases:**

20 When using do not eat or drink.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
60 This material and its container must be disposed of as hazardous waste.
61 Avoid release to the environment. Refer to special instructions/safety data sheets.

*** National regulations**

*** Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

16 Other information:

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. The chapters that have been updated are marked with an asterix (*).

*** Relevant R-phrases**

22 Harmful if swallowed.
25 Toxic if swallowed.
35 Causes severe burns.
50 Very toxic to aquatic organisms.
8 Contact with combustible material may cause fire.

*** Department issuing data specification sheet:** Quality, Environment and Safety Department

*** Contact:** Q/E/S Manager

**** Data compared to the previous version altered.**