

*Safety data sheet
according to 1907/2006/EC, Article 31*

Printing date 10.09.2012


Version number 17

Revision: 10.09.2012

1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
- **Trade name:** *Curatech TN 133*
- **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the preparation** Cleaner
- **Details of the supplier of the safety data sheet** Email adress: Ralf.Giebmanns@peerenergy.de
- **Manufacturer/Supplier:**
PEER Energy GmbH
An der Niers 27
D - 47608 Geldern (Germany) Fon: 02831-39 59 50 50
- **Further information obtainable from:**
Department of laboratory.
Data-leaf for med. Serves available under: Phone s. address
- **Emergency telephone number:** Department of laboratory.

2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
 Xi; Irritant
R38-41: Irritating to skin. Risk of serious damage to eyes.
- **Information concerning particular hazards for human 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.
- **Classification system:**
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

Label elements

- **Labelling according to EU guidelines:**
Observe the general safety regulations when handling chemicals.
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
- **Code letter and hazard designation of product:**



Xi Irritant

- **Risk phrases:**
38 Irritating to skin.
41 Risk of serious damage to eyes.
- **Safety phrases:**
24/25 Avoid contact with skin and eyes.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
35 This material and its container must be disposed of in a safe way.
37/39 Wear suitable gloves and eye/face protection.
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.

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· **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 7722-88-5 EINECS: 231-767-1	tetrasodium pyrophosphate substance with a Community workplace exposure limit	50-100%
	nonionic surfactants Xn R22; Xi R41	2.5-10%
CAS: 10101-89-0 EINECS: 231-509-8	Trinatriumphosphat Xi R36/37/38	2.5-10%
CAS: 1310-73-2 EINECS: 215-185-5	sodium hydroxide C R35	< 2.5%

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

4 First aid measures

- **Description of first aid measures**
- **General information:** Remove any clothing soiled by the product.
- **After inhalation:**
Applies for dust-forming process.
Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
Immediately rinse with water.
If skin irritation continues, consult a doctor.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:**
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; call for medical help immediately.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.
Adjust to environment-fire
- **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Cool endangered receptacles with water spray.

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Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.
Avoid formation of dust.

· Environmental precautions:

Do not allow product to reach sewage system or any water course.
Damp down dust with water spray.
If larger amounts are released: Inform competent authority.

· Methods and material for containment and cleaning up:

Pick up mechanically.
clean up with water
Send for recovery or disposal in suitable receptacles.

· Reference to other sections

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

· Handling:

· Precautions for safe handling

Prevent formation of dust.
keep away from eyes and skin

· Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by storerooms and receptacles:

Observe regulation.
Store well closed in a cool location.

· Information about storage in one common storage facility: Not required.

· Further information about storage conditions: Protect from humidity and water.

· Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Additional information about design of technical facilities: In case of dust-formation vacuuming is necessary.

· Control parameters

· Ingredients with limit values that require monitoring at the workplace:

7722-88-5 tetrasodium pyrophosphate

WEL | Long-term value: 5 mg/m³

1310-73-2 sodium hydroxide

WEL | Short-term value: 2 mg/m³

· Additional information: The lists valid during the making were used as basis.

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- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
Do not eat or drink while working.
Avoid contact with the eyes and skin.
Do not inhale dust / smoke / mist.
- **Respiratory protection:** Use suitable respiratory protective device when powder is in the air.
- **Protection of hands:** Protective gloves
- **Material of gloves**
Butyl rubber, BR
Nitrile rubber, NBR
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.
- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Tightly sealed goggles
- **Body protection:** Protective work clothing

9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	Solid
Colour:	White
- **Odour:** Characteristic
- **Odour threshold:** Not determined.
- **pH-value (10 g/l) at 20°C:** 11.7
- **Change in condition**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
- **Flash point:** Not applicable.
- **Flammability (solid, gaseous):** Not determined.
- **Ignition temperature:**

Decomposition temperature:	Not determined.
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- **Self-igniting:** Product is not selfigniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Vapour pressure:** Not applicable.
- **Density:** Not determined.
- **Relative density** Not determined.
- **Vapour density** No further information available.
- **Evaporation rate** Not applicable.
- **Solubility in / Miscibility with water:** Soluble.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**

Dynamic:	Not determined.
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- | | |
|----------------------------|--|
| Kinematic: | Not applicable. |
| · Solvent content: | |
| Organic solvents: | 0.0 % |
| · Other information | No further relevant information available. |

10 Stability and reactivity

- **Reactivity**
- **Chemical stability** Stable under recommended storage conditions
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
Loss of constitutional water on heating.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** Acids
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Strong caustic-effect with danger of serious eye-damages
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Irritant
- **Repeated dose toxicity** No further relevant information available.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Other information:**
The product contains tensids, which are able to meet the demands of the tensid-regulation from 04.06.1986 to the cleaner-law, measured upon the OECD-methods. They are over 90 % biodegradable.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Other information:** Phosphates contribute to eutrophication in stagnant water.
- **Additional ecological information:**
- **General notes:**
Water hazard class 2 (German Regulation): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
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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- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
The following advice relates to the product that has been left and not to any processed Products. When mixed with other products: other disposal methods may become necessary. In doubt, please consult the product supplier or local authority for advice.
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system. Must be specially treated adhering to official regulations.
- **Waste disposal key:** -
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **UN-Number**
- **ADR, ADN, IMDG, IATA** Void
- **UN proper shipping name**
- **ADR, ADN, IMDG, IATA** Void
- **Transport hazard class(es)**
- **ADR, ADN, IMDG, IATA**
- **Class** Void
- **Packing group**
- **ADR, IMDG, IATA** Void
- **Environmental hazards:**
- **Marine pollutant:** No
- **Special precautions for user** Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
- **Transport/Additional information:** Not dangerous according to the above specifications.

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to EU guidelines:**
Observe the general safety regulations when handling chemicals.
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
- **Code letter and hazard designation of product:**



Xi Irritant

- **Risk phrases:**
38 Irritating to skin.

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41 Risk of serious damage to eyes.

· Safety phrases:

24/25 Avoid contact with skin and eyes.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

35 This material and its container must be disposed of in a safe way.

37/39 Wear suitable gloves and eye/face protection.

· National regulations:**· Waterhazard class:** Water hazard class 2: hazardous for water.**· Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

R22 Harmful if swallowed.

R35 Causes severe burns.

R36/37/38 Irritating to eyes, respiratory system and skin.

R41 Risk of serious damage to eyes.

· Department issuing MSDS: see Section 1: Manufacturer / Supplier**· Contact:** Herr Ralf Giebmanns