

1. Identification of the substance/preparation and of the company/undertaking

- Details of the product**

Trade name:**Heat Clean S****Use of the substance/preparation:**

Cleaner for the removal of grease and oil residues

Manufacturer/Supplier:UWS Technologie GmbH
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Emergency information:

2. Composition/information on ingredients

- Chemical characterization (preparation):**

Alkaline cleaner

CAS No. Designation:

| CAS No. | EINECS-No. | designation | w/w % | Classification/labeling |
|-------------|------------|-----------------------|-------|-------------------------|
| 1310-73-2 | 251-185-5 | Caustic soda | < 2% | C, R34-37 |
| 160875-66-1 | - | Non-ionic surfactants | < 2% | Xn 22,36/38 |

Other additives : Complexing agent, polyacrylate (Sokalan 30 PA CL)

The full text of the listed R-phrases is given in section 16.

3. Potential hazards

- Hazard designation:**

Xi irritant

Information concerning particular hazards for human and environment:

R36/38 Irritating to eyes and skin.

Additional hazard statements for human and environment:

The concentrate causes burns. Do not allow to enter waterways.

4. First aid measures

- General information:** The toxic properties are due to the alkali content of the product. Remove contaminated, soaked clothing immediately.
- after inhalation:** not relevant
- after skin contact:** Rinse immediately with plenty of water. Remove contaminated clothing, including shoes and underwear.
- after eye contact:** Rinse opened eye for 10 minutes under running water. Consult an ophthalmologist.
- after swallowing:** Rinse out mouth and drink plenty of water. Do not induce vomiting. Consult a doctor immediately.



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5. Fire fighting measures

- **Suitable extinguishing media:** Water, or adapt to surrounding fire. Product does not burn.
- **Special hazards arising from the substance or preparation itself, its combustion products or resulting gases - combustion products or resulting gases:** The concentrate causes burns.
- **Special protective equipment for fire fighting:** None
- **Additional information:** Cool containers immediately with water spray. Wear suitable protective - wear suitable protective clothing.

6. Accidental release measures

- **Personal precautions:** Wear protective equipment. Keep unprotected persons away - keep away. Eliminate leaks. Isolate the source of the spill/leak. Neutralization of the clean up leaked base with vinegar or pick up with sand.
- **Environmental precautions:** Do not allow to enter watercourses.
- **Methods for cleaning up/absorption:** Absorb with liquid-binding material (sand, silica gel, Alkali binder, universal binder, sawdust). Use neutralizing agent.

7. Handling and storage

- **Handling:**
- **Advice on safe handling:** Avoid contact with skin and eyes. The usual protective measures for handling chemicals must be observed.
- **Information on fire and explosion protection:** The product is not flammable.
- **Storage:**
- **Requirements for storage rooms and containers:** Store only in the original container. Keep container tightly closed in a cool place. Protect from heat and direct sunlight.
- **Information about storage in one common storage facility:** Do not store together with acids.

8. Exposure controls and personal protective equipment

To be observed Workplace-related limit values:

| CAS No. | designation | Type | Value | unit | Remark |
|-----------|--------------|---------|-------|-------|--------|
| 1310-73-2 | Caustic soda | MAK, EU | 2 | mg/m3 | - |

- **General protective and hygienic measures:** Avoid contact with eyes and skin. The usual precautionary measures for handling chemicals must be observed. Remove soiled, soaked clothing immediately. Do not smoke, eat or drink while working.
- **Respiratory protection:** not required
- **Hand protection:** Wear protective gloves
- **Eye protection:** Safety goggles and face shield
- **Body protection:** acid-proof protective clothing



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9. Physical and chemical properties

- **General information:**
 - Form: liquid
 - Color: yellowish
 - Odor: product specific, almost odorless
- **Change of state:**
 - Melting point/melting range: -10 °C
 - Boiling point/boiling range: 108,5 °C
- **Flash point:** not applicable
- **Explosion hazard:** The product is not explosive.
- **Vapor pressure:** similar to water
- **Density at 20 °C:** 1,07 g/ml
- **Solubility at 20 °C:** unlimited
- **pH value at 20 °C:** 10 - 10,5
- **Viscosity:** n. b.

10. Stability and reactivity

- **Thermal decomposition / Conditions to avoid:** No decomposition if used as intended.
- **Substances to avoid:** strong acids. Corrodes aluminum and zinc. May alter dyes.
- **Hazardous decomposition products:** not known

11. Toxicological information

- **Acute toxicity (LD/LC50 values relevant for classification):**
 - Sodium hydroxide, caustic soda LD50, Oral, Rat: 325 mg/kg (calculated)
 - Non-ionic surfactants (polyethoxylates fatty alcohol) LC50, Oral, Rabbit: > 500 mg/kg (calculated)
- **Primary irritant effect:** Corrosive to eyes and skin/mucous membranes
- **Sensitization:** No sensitizing effect known.

12. Ecological information

- **Ecotoxicity:** The alkalinity of the product changes the pH value of the water to high values. Potentially harmful to aquatic organisms due to pH shift.
 - Fish toxicity:** 96 h LC50 *Oncorhynchus mykiss* (rainbow trout) >1200 mg/l (calculated)
 - Non-ionic surfactants (polyethoxylates fatty alcohol)
- **Daphnia magna:** EC50 (48h) 10-100 mg/L
- **Green algae:** EC50 (72h) 10-100 mg/L
- **Bioaccumulative potential:** Do not allow to enter water bodies or drains.
- **Persistence and degradability:** Behavior in sewage treatment plants: The product contains biodegradable surfactants according to WRMG and the corresponding surfactant regulation.
- **Water hazard class:** WGK 1 - slightly hazardous to water
 - Do not allow undiluted product or large quantities of it to enter groundwater, bodies of water or drains into the sewage system. Must not be allowed to enter waste water or receiving waters undiluted or unneutralized. If not neutralized, the pH value must be observed.
 - The toxic effect for fish and bacteria begins below pH 6 or above pH 9.



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13. Notes on disposal

- **Product recommendation:** Concentrated product must be handed over to an authorized disposal company. Waste number: 200129. Working solutions that have been diluted with water can be - into the sewage system after use.
- **Uncleaned packaging:** Dispose of in accordance with local regulations.
Recommended cleaning agents: Water with the addition of cleaning and/or neutralizing agents if necessary.

14. Transport regulations

- **Land transport ADR/RID and GGVS/GGVE (cross-border/inland):**
No dangerous goods in the sense of the transport regulations

15. Regulations

- **Labeling according to EEC directives:**
The product is classified and labeled according to EC Directives/GefStoffV.
- **Code letter and hazard designation of the product:** Xi Irritant
- **R-phrases:** R36/38 Irritating to eyes and skin
- **S-phrases:** S2 Keep out of the reach of children
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice consult a doctor.
S37/39 Wear suitable protective clothing, gloves and eye/face protection
S46 If swallowed, seek medical advice immediately and show the packaging or label.
- **RoHS Conformity:** We hereby declare that RoHS restricted substances are not intentionally transferred to other products we hereby declare that RoHS restricted substances are not intentionally added to other products and that unintended quantities of restricted - substances are within those restrictions of the RoHS Directive, 0.1% of lead of mercury, of chromium (VI), of polybrominated biphenyl (PBB), of polybrominated diphenyl ether (PBDE) and of 0.01% of cadmium.
- **National regulations:**
Water hazard class: WGK1 (list classification) - slightly hazardous to water
The surfactants contained in this preparation fulfil the conditions of biodegradability as laid down in Regulation (EC) No 648/2004 on detergents. Documents confirming this will be kept at the disposal of the competent authorities of the Member States and made available only to them, either directly or at the request of a detergent manufacturer.

16. Other information

- **Relevant R-phrases**
R36/38 Irritating to eyes and skin.
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