



SAFETY DATA SHEET

According to OSHA Hazard Communication Standard 29 CFR 1910.1200 (GHS)

Product name **Clearcil Chlorine Free P.E.T. Tab**
Product id AS_9020NB_CLC
Revision date 18/03/2015

Revision: 1

1. Identification of the substance & the company

Chemical name Mixture
Type of product and use For use in pools, spas, and hot tubs.
Supplier NAVA Water Products
95 MacCorkle Ave. SW,
South Charleston, WV 25303,
USA
Toll Free Number: 1-800-811-2327
Emergency Telephone Chemtrec: (800) 424-9300
Medical: (800) 420-9236

2. Hazards identification

GHS classification Skin Corr. 1B, H314 Causes severe skin burns and eye damage
STOT SE 3, H335 May cause respiratory irritation

Labels and other form of warning

Symbol(s)



Signal Word DANGER

Hazard statements H314 - Causes severe skin burns and eye damage
H335 - May cause respiratory irritation



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Precautionary statements

P101 - If medical advice is needed, have product container or label at hand
P102 - Keep out of reach of children.
P260 - Do not breathe dust/fume/gas/mist/vapors/spray
P271 - Use only outdoors or in a well-ventilated area
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a POISON CENTER or doctor/physician
P363 - Wash contaminated clothing before reuse
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
P405 - Store locked up
P501 - Dispose of contents/container in accordance with local/ regional/ national/ international regulations.

3. Composition / information on ingredients

Components	CAS No.	Weight %
SODIUM CARBONATE	497-19-8	25-50
DISODIUM METASILICATE	6834-92-0	35
Sulfuric acid, aluminum potassium salt (2:1:1), dodecahydrate	7784-24-9	10-<20
Citric acid	77-92-9	5-<10

4. First-aid measures

Eye contact Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Skin contact Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Inhalation In case of dust inhalation or breathing fumes released from heated material, remove person to fresh air. Keep him quiet and warm. Apply artificial respiration if necessary and get medical attention immediately.



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Ingestion If swallowed, wash mouth thoroughly with plenty of water. Get medical attention immediately.
Do not induce vomiting unless told to do so by the poison control center or doctor.
Do not give anything by mouth to an unconscious person.

Most important symptoms and effects, acute or delayed

- **Eye Contact** Causes severe eye damage.
Symptoms include redness, pain and blurred vision.
- **Skin contact** Causes severe skin burns
Symptoms include redness, pain and serious skin burns
- **Inhalation** Corrosive to mucous membranes and upper respiratory tract.
Symptoms include sore throat, coughing, shortness of breath and nasal irritation.
- **Ingestion** Corrosive by ingestion
Symptoms of overexposure include burning sensation in the mouth and throat, vomiting (occasionally of blood), abdominal pain and diarrhea.

Note to physician No specific antidote.
Treat symptomatically and supportively.

5. Fire - fighting measures

- Suitable extinguishing media** Water, water fog, carbon dioxide (CO₂), dry chemical, foam.
- Extinguishing media not to be used** None known.
- Unusual fire and explosion hazards** None known. Non-combustible.
- Fire fighting procedure** In closed stores, provide fire-fighters with self-contained breathing apparatus in positive pressure mode.

6. Accidental release measures

- Personal precautions** Slipping hazard due to spilled product Avoid breathing dust/fume/gas/mist/vapors/spray Wear protective clothing specified for normal operations (see section 8).
- Methods for cleaning up** Shovel into suitable container for disposal. Ventilate area and wash spill site after material pickup is complete. Observe all federal, state and local environmental regulations.



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Environmental precautions Prevent from entering into soil, ditches, sewers waterways and/or groundwater. Large scale discharge causing a veryhigh pH may impair the biological system in sewage plants. Inform the official bodies if necessary.

7. Handling and storage

Handling Avoid contact with skin and eyes. Keep containers tightly closed.

Storage Store in a dry, cool, well-ventilated area in the original container. Store away from incompatible materials (see "materials to avoid"). Maximum recommended storage temperature of 35°C. Do not store near food, drink, animal feeding stuffs, pharmaceuticals, cosmetics or fertilisers.

8. Exposure controls / personal protection

Exposure Limits :

Components	ACGIH-TLV Data	OSHA (PEL) Data
SODIUM CARBONATE 497-19-8	Not determined	Not determined
DISODIUM METASILICATE 6834-92-0	Not determined	Not determined
Sulfuric acid, aluminum potassium salt (2:1:1), dodecahydrate 7784-24-9	Not determined	Not determined
Citric acid 77-92-9	Not determined	Not determined

Ventilation requirements Use local exhaust as necessary, especially under dusty conditions.

Personal protective equipment:

- **Respiratory protection** Wear appropriate respiratory protection in case of large scale exposure. Suitable: dust mask type FFP1 or higher, in accordance with EN 149.
- **Hand protection** Wear appropriate safety gloves in accordance with EN 374. Suitable material: PVC. \pm 0,5 mm Indication of permeation breakthrough time: not known.
- **Eye protection** Wear appropriate safety glasses with side shields, in accordance with EN 166.
- **Skin and body protection** Wear appropriate protective clothing, overalls or suit, and similar boots in accordance with EN 365/367 resp.345. Suitable material: PVC. Indication of permeation breakthrough time: not known.



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Hygiene measures Do not eat, smoke or drink where material is handled, processed or stored. Wash hands thoroughly after handling and before eating or smoking. Safety shower and eye bath should be provided.

9. Physical and chemical properties

Appearance Blue solid with characteristic odor
pH 10.7 (10%)
Melting point/range >850°C
Boiling point/range >850°C
Flash point Not applicable
Evaporation rate (ether=1) Very low
Flammability (solid, gas) Not flammable
Vapor pressure Negligible
Vapor density Not applicable
Density 1 g/mL
Solubility:
- Solubility in water Soluble
Partition coefficient (n-octanol/water) Not available
Auto-ignition temperature >1010°C
Decomposition temperature Not applicable
Viscosity Not applicable
Explosive properties Not available
Oxidising properties Not applicable,

10. Stability and reactivity

Reactivity See sub-sections below.
Stability Stable under normal conditions
Possibility of hazardous reactions None known
Conditions to avoid Heating above 35 °C.
Materials to avoid Acids.
Hazardous decomposition products None known

11. Toxicological information

Note: *Toxicological data have not been determined specifically for this product. The classification of the mixture is based on the available data for the components*



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Likely Routes of Exposure	Skin Eye contact Inhalation Ingestion
Acute toxicity:	No data available
Chronic toxicity	No data available
Mutagenicity	Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.
Carcinogenicity	Does not contain carcinogenic substances. Not classified - based on available data, the classification criteria are not met.

12. Ecological information

Note:	To the best of our knowledge, the toxicological properties of this material have not been thoroughly investigated.
Aquatic toxicity :	No data available
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	If product enters soil, it will be highly mobile and may contaminate groundwater

13. Disposal considerations

Waste disposal	Observe all federal, state and local environmental regulations when disposing of this material.
Disposal of Packaging	Empty packaging may contain product residues and due consideration should be given prior to disposal



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14. Transportation information

UN No. 1759
DOT Proper Shipping Name: CORROSIVE SOLID, N.O.S. (contain DISODIUM TRIOXOSILICATE)
Class: 8 - Corrosives
Label: CORROSIVE (8)
Packing Group: III

Note: Certain shipping modes or package sizes may have exceptions from the transport regulations and may be classified as Consumer Commodity and Limited Quantity. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

15. Regulatory information

USA All the components of this substance are listed on or are exempt from the TSCA inventory.

16. Other information

Although the information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof, NAVA Water Products makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its safety and suitability for their purposes prior to use. In no event will NAVA Water Products be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE, ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH THE INFORMATION REFERS.

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End of safety data sheet