1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

CAS-NO.: 51580-86-0
EU INDEX NO.: 613-030-01-7
EC (EINECS) NO.: 220-767-7
Synonyms, Trade Names: BRISWIM PLUS CHLORINE GRANULES, BRICHLOR PLUS GRANULES, DCCNa, 55 Grain, FI-CLOR GRANULES, CHLORINE GRANULES, CLEARON PLUS, ACLOR 56, BRISWIM CHLOR GR, SODIUM DICHLOROISOCYANURATE DIHYDRATE.
Application: Biocides for water treatment
Company name: Nexchem Ltd
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2. HAZARDS IDENTIFICATION

Classification (67/548) Xn;R22 Xi;R36/37 R31 N;R50/53
Hazard
Human health EUH031; Acute Tox. 4 - H302;
Eye Irrit. 2 - H319;
STOT Single 3 - H335
Environment Aquatic Acute 1 - H400;
Aquatic Chronic 1 - H410

Label in accordance with (EC) No. 1272/2008

Signal word: Warning
Hazard statements: H302 Harmful if swallowed.
H319 Causes serious eye irritation
H335 May cause respiratory irritation.
H410 Very toxic to aquatic life with long lasting effects.
[cont...]
Precautionary statements:

P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.

Supplemental Label Information (EU): EUH031 Contact with acids liberates toxic gas.

Environment: The product contains a substance which is very toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

Human health: Harmful if swallowed. Irritating to eyes and skin.

3. COMPOSITION / INFORMATION ON INGREDIENTS

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CAS-NO.: 51580-86-0

4. FIRST AID MEASURES (SYMPTOMS)

Notes to the physician: No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

Inhalation: Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

Ingestion: Immediately rinse mouth and drink plenty of water or milk. Keep person under observation. Do not induce vomiting. If vomiting occurs, keep head low. Transport immediately to hospital and bring along these instructions.

Skin contact: Remove contaminated clothing immediately and wash skin with soap and water.

Eye contact: Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention immediately. Continue to rinse.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

Specific Hazards: Chlorine.

Protective measures in fire: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Follow precautions for safe handling described in this safety data sheet.

Environmental precautions: Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

Spill clean-up methods: Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like. Wash thoroughly after dealing with a spillage. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

7. HANDLING AND STORAGE

Usage precautions: Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.

Storage precautions: Keep containers tightly closed. Keep in original container.

Storage class: Chemical storage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>Name</th>
<th>STD</th>
<th>TWA - 8 Hrs</th>
<th>STEL - 15 Min</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>TROCLOSENE SODIUM, DIHYDRATE</td>
<td>MEL</td>
<td>0.02 mg/m³</td>
<td>0.07 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

Protective equipment:

Respiratory equipment: Wear mask supplied with: Gas cartridge suitable for organic substances.

Hand protection: Neoprene gloves are recommended.

Eye protection: Wear splash-proof eye goggles to prevent any possibility of eye contact.

Other protection: Wear rubber apron. Wear rubber footwear.
9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Granular or Pellets
Colour: White / off-white
Odour: Chlorine.
Solubility: Soluble in water.
Melting point (°C): 240 - 250
Bulk density: 900 - 1000 kg/m³
pH-value, diluted solution: 6.0 - 6.4 @ 1%
Flash point (°C): >250
Solubility value (g/100g H₂O@20°C): 25

10. STABILITY AND REACTIVITY

Stability: Will decompose at temperatures exceeding 200°C.
Conditions to avoid: Oxidising, avoid contact with reducing agents. Generates very toxic gas in contact with acid.
Materials to avoid: Strong acids. Strong reducing agents.
Hazardous decomposition products: Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

11. TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50 1173 mg/kg (oral rat)
Inhalation: In high concentrations, vapours may irritate throat and respiratory system and cause coughing.
Ingestion: Harmful if swallowed.
Skin contact: Acts as a defatting agent on skin. May cause cracking of skin and eczema. Irritating to skin.
Eye contact: Irritating and may cause redness and pain.

12. ECOLOGICAL INFORMATION

Ecotoxicity: The product contains a substance which is very toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.
LC 50, 96 Hrs, FISH mg/l 0.22
EC 50, 48 Hrs, DAPHNIA, mg/l 0.55
Mobility: The product is soluble in water.

13. DISPOSAL CONSIDERATIONS

General information: Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.
Disposal methods: Dispose of waste and residues in accordance with local authority requirements.

14. TRANSPORT INFORMATION

General: The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).
15. REGULATORY INFORMATION


Guidance notes: CHIP for everyone HSG(108).


Note: The regulatory information given above only indicates the principal regulations specifically Applicable to the product described in the safety data sheet. The user’s attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Legal disclaimer: The information contained in this SDS does not constitute a risk assessment, and should not replace the user’s own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.