

REVISION DATE 29th April 2015 – Revision No 7

Supercedes 14th March 2014



SAFETY DATA SHEET

CLEENOL HI-POWER EFFERVESCENT CHLORINE TABLETS

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY

| | |
|------------------------------|---|
| Product Name | CLEENOL HI-POWER EFFERVESCENT CHLORINE TABLETS |
| Part No and Pack Size | 0625CHL (x200) |
| Supplier | CLEENOL GROUP LIMITED Neville House, Beaumont Road, Banbury, Oxon OX16 1RB Tel: 01295 251721 FAX: 01295 269561 E Mail: sales@cleenol.co.uk |
| Emergency Telephone | Poisons Information Specialist National Poisons Information Service Birmingham B18 7QH Tel: 0121 507 5122 |

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008) **Physical and Chemical Hazards** Not classified.
Human health Acute Tox. 4 - H302; Eye Irrit. 2 - H319; STOT SE 3 - H335
Environment Aquatic Acute 1 - H400; Aquatic Chronic 1 - H410

Classification (1999/45/EEC) Xn; R22. Xi; R36/37. N; R50/53.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

2.2. Label elements

Contains TROCLOSENE SODIUM
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.

| | |
|--|---|
| Precautionary Statements | P501 Dispose of contents/container in accordance with local regulations. |
| Supplementary Precautionary Statements | <p>P270 Do not eat, drink or smoke when using this product.</p> <p>P271 Use only outdoors or in a well-ventilated area.</p> <p>P273 Avoid release to the environment.</p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P261 Avoid breathing vapour/spray.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P301+312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.</p> <p>P304+340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</p> <p>P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P312 Call a POISON CENTER or doctor/physician if you feel unwell.</p> <p>P313 Get medical advice/attention.</p> <p>P330 Rinse mouth.</p> <p>P337 If eye irritation persists:</p> <p>P391 Collect spillage.</p> <p>P403+233 Store in a well-ventilated place. Keep container tightly closed.</p> <p>P405 Store locked up.</p> |

2.3. Other hazards

3. COMPOSITION / INFORMATION ON INGREDIENTS

| INGREDIENT | EC No | CAS No | CLASSIFICATION | CONTENTS |
|-------------------|-----------|-----------|---|----------|
| ADIPIC ACID | 204-673-3 | 124-04-9 | Xi;R36 (67/548/EEC) Eye Irrit. 2 - H319 (EC 1272/2008) | 10-30% |
| SODIUM CARBONATE | 207-838-8 | 497-19-8 | Xi;R36 (67/548/EEC) Eye Irrit. 2 - H319 (EC 1272/2008) | 1-5% |
| TROCLOSENE SODIUM | 220-767-7 | 2893-78-9 | E;R2, O;R8, Xn;R22, Xi; R36/37, R31, N;R50/53 (67/548/EEC) Ox. Sol. 2 - H272 EUH031 Acute T Eye Irrit. 2 - H319 STOT SE 3 - H335 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 (EC 1272/2008) | 30-60% |

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Composition Comments

Note T for troclocene sodium as per Commission Directive 20008/58/EC applies

4. FIRST AID MEASURES

4.1. Description of first aid measures

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|-------------------|--|
| EYES | Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash out eyes with plenty of cold water whilst lifting the eyelids. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing. |
| SKIN | Skin irritation is not anticipated when used normally. In the event of irritation, remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing. |
| INGESTION | DO NOT INDUCE VOMITING. NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS. Remove victim immediately from source of exposure Drink plenty of water. Seek immediate medical attention. Provide rest, warmth and fresh air. |
| INHALATION | Remove to fresh air at once. Get medical attention. Provide rest, warmth and fresh air. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. |

In all cases, if symptoms persist, seek medical advice and show this information sheet.

Note for Medical Practitioners : This information is registered with the National Poisons Information Service.

5. FIRE FIGHTING MEASURES

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|---|---|
| <u>5.1 Extinguishing Media</u> | This product is not flammable. Use water spray, dry powder or carbon dioxide. |
| <u>5.2 Special Hazards Arising From The Substance Or Mixture</u> | <p>Unusual Fire & Explosion Hazards Fire causes formation of Toxic Gases. Decomposes above 250°C with release of chlorine and other toxic fumes.</p> <p>Specific Hazards In case of fire, toxic gases may be formed (CO_x, NO_x). Fire or high temperatures create very corrosive gases/vapours/fumes of chlorine. Hydrogen chloride (HCl).</p> <p>Special Fire Fighting Procedures NOTE! Use air-supplied respirators to protect against gases/fumes. Dike and collect extinguishing water.</p> <p>Protective Equipment for Fire Fighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.</p> |
| <u>5.3 Advice For Fire Fighters</u> | |

6. ACCIDENTAL RELEASE MEASURES

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| <u>6.1 Personal Precautions</u> | Wear protective clothing as described in Section 8 of this safety data sheet. |
| <u>Protective Equipment And Emergency Procedures</u> | Follow precautions for safe handling described in this safety data sheet. Use protective gloves, goggles and suitable protective clothing. Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area. |
| <u>6.2 Environmental Precautions</u> | Not relevant considering the small amounts used. The product should not be dumped in nature but collected and delivered according to agreement with the local authorities. |
| <u>6.3 Methods And Material For Containment & Cleaning Up</u> | Collect in containers and seal securely. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container. Avoid generation and spreading of dust. Flush with plenty of water to clean spillage area. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Do not close drums containing wet or damp material |

7. HANDLING AND STORAGE

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|---|--|
| <u>7.1 Precautions For Safe Handling</u> | Avoid spilling, skin and eye contact. Do not handle broken packages without protective equipment. Keep away from heat, sparks and open flame. Do not eat, drink or smoke when using this product. Observe good chemical hygiene practices. Avoid inhalation of vapours/spray and contact with skin and eyes. Provide good ventilation. Container must be tightly closed. Protect against direct sunlight. Follow instructions and ensure correct dilution of this product before use. |
|---|--|

7.2 Conditions For Safe Storage Including Any Compatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

Ingredient Comments

WEL = Workplace Exposure Limits No exposure limits noted for ingredient(s).

ADIPIIC ACID (CAS: 124-04-9)

DNEL

Industry Inhalation. Short Term 5 mg/m3

PNEC

Freshwater Short Term 0.126 mg/l

Marinewater Short Term 0.0126 mg/l

Sediment Short Term 0.484 mg/l

Soil Short Term 0.0228 mg/l

8.2. Exposure controls

Protective equipment



ENGINEERING MEASURES

No specific ventilation requirements noted, except this product must not be used in a confined space without good ventilation.

VENTILATION

No specific ventilation requirements noted, except this product must not be used in a confined space without good ventilation.

RESPIRATORY EQUIPMENT

No specific recommendation made but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

PROTECTIVE GLOVES

For prolonged or repeated skin contact, wear suitable protective gloves

EYE PROTECTION

If risk of splashing, wear safety goggles or face shield.

OTHER PROTECTION

Wear appropriate clothing to prevent any possibility of liquid contact or prolonged vapour contact.

ENVIRONMENTAL EXPOSURE CONTROLS

Do not allow undiluted product to enter drains.

DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly with soap & water if skin becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

APPEARANCE

White flat tablet

| | |
|-----------------------------------|------------------|
| ODOUR | Characteristic |
| SOLUBILITY IN WATER | Soluble in water |
| pH-VALUE, DILUTED SOLUTION | 1 4-6 approx |
| DECOMPOSITION TEMPERATURE | 240°C |
| MELTING POINT | N/A |

10. STABILITY AND REACTIVITY

10.1 Reactivity

10.2 Chemical Stability Stable under normal temperature conditions.

10.3 Possibility Of Hazardous Reactions

10.4 Conditions To Avoid Avoid contact with acids and oxidising substances. Avoid exposure to high temperatures or direct sunlight. Avoid contact with strong reducing agents.

10.5 Incompatible Materials

MATERIALS TO AVOID

Flammable / combustible material. Organic materials, oils, grease, sawdust, reducing agents, nitrogen-containing compounds, oxidizing substances, acids and alkalis, damp or slightly wet conditions (NaDCC may generate nitrogen trichloride which is explosive).

10.6 Hazardous Decomposition Products

Fire Creates Hydrogen Chloride (HCl). Hydrogen Cyanide (HCN). In case of fire, toxic gases (CO, CO₂, NO_x) may be formed.

11. TOXICOLOGICAL INFORMATION

11.1. Information On Toxicological Effects

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|----------------------------------|---|
| TOXIC DOSE | 1 – LD 50 992 mg/kg (oral-mouse) |
| TOXICOLOGICAL INFORMATION | Toxicological information of the active ingredient troclosene sodium |
| EYE CONTACT | Irritating to eyes. |
| SKIN CONTACT | Skin irritation is not anticipated when used normally. |
| INGESTION | Harmful if swallowed. |
| INHALATION | Harmful: danger of serious damage to health by prolonged exposure through inhalation. |
| ROUTE OF ENTRY | Inhalation, ingestion, skin and / or eye contact. |

12. ECOLOGICAL INFORMATION

12.1. Toxicity EC 50, 48 Hrs. Daphnia mg/l <1 mg NaDCC

12.2. Persistence and degradability Degradability_The product is expected to be biodegradable.

12.3. Bioaccumulative potential

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods Dispose of waste and residues in accordance with local authority regulations. _

14. TRANSPORT INFORMATION

Road Transport Notes **Packed in Limited Quantities.**

14.1. UN number

UN No. (ADR/RID/ADN) **3077**

UN No. (IMDG) **3077**

UN No. (ICAO) **3077**

14.2 Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, NOS
(TROCLOSENE SODIUM)

14.3. Transport hazard class(es)

ADR/RID/ADN Class 9

ADR/RID/ADN Class Class 9: Miscellaneous dangerous substances and articles. ADR Label No. 9

IMDG Class 9

ICAO Class/Division 9

14.4. Packing group

ADR/RID/ADN Packing group III

IMDG Packing group III

ICAO Packing group III

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant

No.

14.6. Special precautions for user

EMS F-A, S-F

Emergency Action Code 2Z Hazard No. (ADR) 90

Tunnel Restriction Code (E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716). Approved Code Of Practice

Classification and Labelling of Substances and Preparations

Dangerous for Supply.

Guidance Notes

Workplace Exposure Limits EH40. CHIP for everyone HSG(108). EU Legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive

1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive

76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

National Regulations

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. No. 1689.

15.2. Chemical Safety Assessment

16. OTHER INFORMATION

Revision date **29.04.15**

SDS No: P7

Risk phrases in full

| | |
|--------|---|
| R31 | Contact with acids liberates toxic gas |
| R8 | Contact with combustible material may cause fire |
| R22 | Harmful if swallowed |
| R36/37 | Irritating to eyes and respiratory system |
| R36 | Irritating to eyes |
| R2 | Risk of explosion by shock, friction, fire or other sources of ignition. |
| R50/53 | Very toxic to aquatic organisms May cause long-term adverse effects in the aquatic environment |

Hazard Statements In Full

| | |
|--------|---|
| H319 | Causes serious eye irritation. |
| EUH031 | Contact with acids liberates toxic gas. |
| H302 | Harmful if swallowed. |
| H335 | May cause respiratory irritation. |
| H272 | May intensify fire; oxidiser. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H400 | Very toxic to aquatic life. |

This product is only to be used for the purpose for which it was intended and in accordance with the specified instructions. This product should never be mixed with other chemical products and should be handled with care and stored carefully out of reach of children.

All Cleenol containers are recyclable and we would be pleased to provide relevant information about individual packs, and recycling agencies.

Information contained in this Safety Data Sheet is accurate to the best knowledge of Cleenol Group Ltd.

Because of our continuing desire to incorporate technical improvements and innovations, and in view of the possibility of the occasional need to substitute certain materials, Cleenol reserve the right to alter specifications without notice.

Unless otherwise stated, it is recommended that this product is used within 12 months of purchase.