

Material Safety Data Sheet

Product No.: MDR 11
Substance code: 5401

Version: 11/13/CT

Status: Issue 1
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1 Identification of the substance/preparation and company

Product details: Disinfecting tablets

Trade name: **MGS Chlorine Tablets**

Supplier details:

GAP Research Co. Ltd.

Unit 2 Ebbsfleet Business Park

Stonebridge Road

Northfleet, Kent

DA11 9DZ

Information provided by:

GAP Research Company Limited

Emergency phone number: 01474 560618

Emergency fax number: 01474 564418

2 Hazards identification

· **Classification of the substance or mixture**

· **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**

Xn; Harmful

R22: Harmful if swallowed.

Xi; Irritant

R36/37: Irritating to eyes and respiratory system.

N; Dangerous for the environment

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R31: Contact with acids liberates toxic gas.

· **Information concerning particular hazards for human and environment:**

The product has to be labelled in accordance with Directive 1999/45/CE relative to dangerous preparations, 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:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· **Code letter and hazard designation of product:**



Xn Harmful

N Dangerous for the environment

· **Hazard-determining components of labelling:**

troclosene sodium, dihydrate

· **Risk phrases:**

22 Harmful if swallowed.

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- 31 Contact with acids liberates toxic gas.
 36/37 Irritating to eyes and respiratory system.
 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **Safety phrases:**
- 2 Keep out of the reach of children.
 7/8 Keep container tightly closed and dry.
 13 Keep away from food, drink and animal feedingstuffs.
 25 Avoid contact with eyes.
 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 41 In case of fire and/or explosion do not breathe fumes.
 46 If swallowed, seek medical advice immediately and show this container or label.
 47 Keep at temperature not exceeding 50°C.
 60 This material and its container must be disposed of as hazardous waste.
 61 Avoid release to the environment. Refer to special instructions/safety data sheets.
- **Special labelling of certain preparations:** Warning! Do not use together with other products. May release dangerous gases (chlorine).
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
 · **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Cleaning agent
 Disinfectant product

· **Dangerous components:**

CAS: 51580-86-0	troclosene sodium, dihydrate	> 25%
EINECS: 220-767-7	Xn R22; Xi R36/37; N R50/53 R31	
Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Eye Irrit. 2, H319; STOT SE 3, H335		

· **Regulation (EC) No 648/2004 on detergents / Labelling for contents**

chlorine-based bleaching agents	≥ 30%
disinfectants	

- **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:** Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Call for a doctor immediately.

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- **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** *During heating or in case of fire poisonous gases are produced.*
- **Advice for firefighters**
- **Protective equipment:** *Mouth respiratory protective device.*

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** *Mount respiratory protective device.*
- **Environmental precautions:** *Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.*
- **Methods and material for containment and cleaning up:** *Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.*
- **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** *No special measures required.*
- **Information about fire - and explosion protection:** *Keep respiratory protective device available.*
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** *No special requirements.*

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- **Information about storage in one common storage facility:** Do not store together with acids.
- **Further information about storage conditions:** Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**

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

51580-86-0 troclosen sodium, dihydrate


WEL (Great Britain)	Short-term value: 0.07 mg/m ³ Long-term value: 0.02 mg/m ³ Sen; as -NCO
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· **Additional Occupational Exposure Limit Values for possible hazards during processing:**

7782-50-5 chlorine

WEL (Great Britain)	Short-term value: 1.5 mg/m ³ , 0.5 ppm
IOELV (EU)	Short-term value: 1.5 mg/m ³ , 0.5 ppm

- **Additional information:** The lists valid during the making were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:** Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.
- **Respiratory protection:** Not required.
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- **Protection of hands:**



Protective Gloves

Valid in case of prolonged contacts like during production
Not required in normal use
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves** 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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
Nitril rubber, NBR
Natural rubber, NR
PVC gloves
- **Penetration time of glove material** The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

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· **Eye protection:****Safety glasses**

*Valid in case of prolonged contacts like during production
Not required in normal use*

9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

· Form:	Solid
· Colour:	According to product specification
· Odour:	Characteristic
· Odour threshold:	Not determined.

· pH-value:	Alkaline Slightly acidic
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- **Change in condition**

· Melting point/Melting range:	Undetermined.
· Boiling point/Boiling range:	Undetermined.

· Flash point:	Not applicable.
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· Flammability (solid, gaseous):	Not determined.
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- **Ignition temperature:**

· Decomposition temperature:	Not determined.
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· Self-igniting:	Product is not selfigniting.
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· Danger of explosion:	Product does not present an explosion hazard.
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- **Explosion limits:**

· Lower:	Not determined.
· Upper:	Not determined.

· Vapour pressure:	Not applicable.
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· Density:	Not determined.
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· Relative density	Not determined.
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· Vapour density	Not applicable.
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· Evaporation rate	Not applicable.
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- **Solubility in / Miscibility with water:**

Soluble.

· Segregation coefficient (n-octanol/water):	Not determined.
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- **Viscosity:**

· Dynamic:	Not applicable.
· Kinematic:	Not applicable.

- **Solvent content:**

· Organic solvents:	0.0 %
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· Solids content:	100.0 %
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· Other information	No further relevant information available.
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10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** Warning! Do not use together with other products. May release dangerous gases (chlorine).
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
 - **Acute toxicity:**
 - **LD/LC50 values relevant for classification:**
- | | | |
|--|------|------------------|
| 51580-86-0 troclocene sodium, dihydrate | | |
| Oral | LD50 | 1400 mg/kg (rat) |
- **Primary irritant effect:**
 - **on the skin:** No irritant effect.
 - **on the eye:** Irritating effect.
 - **Sensitization:** No sensitizing effects known.
 - **Additional toxicological information:** Harmful

12 Ecological information

- **Toxicity**
 - **Acquatic toxicity:**
- | | |
|--|----------------------|
| 51580-86-0 troclocene sodium, dihydrate | |
| EC50 | 0.196 mg/L (daphnia) |
- **Persistence and degradability** No further relevant information available.
 - **Behaviour in environmental systems:**
 - **Bioaccumulative potential** No further relevant information available.
 - **Mobility in soil** No further relevant information available.
 - **Ecotoxicological effects:**
 - **Remark:** Very toxic for fish
 - **Additional ecological information:**
 - **General notes:** Water hazard class 2 (Self-assessment): 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.
Also poisonous for fish and plankton in water bodies.
Very toxic for aquatic organisms
 - **Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.

· **Other adverse effects** No further relevant information available.

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13 Disposal considerations

· **Waste treatment methods**

· **Recommendation** Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

· **Recommended**

cleansing agents: Water, if necessary together with cleansing agents.

14 Transport information

· **Land transport ADR/RID (cross-border)**



· **ADR/RID class:** 9 (M7) Miscellaneous dangerous substances and articles.
 · **Danger code (Kemler):** 90
 · **UN-Number:** 3077
 · **Packaging group:** III
 · **Hazard label:** 9
 · **Special marking:** Symbol (fish and tree)
 · **UN proper shipping name:** 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (troclosene sodium, dihydrate)
 · **Limited quantities (LQ)** LQ27
 · **Transport category** 3
 · **Tunnel restriction code** E

· **Maritime transport IMDG:**



· **IMDG Class:** 9
 · **UN Number:** 3077
 · **Label** 9
 · **Packaging group:** III
 · **EMS Number:** F-A,S-F
 · **Marine pollutant:** Yes
 Symbol (fish and tree)
 · **Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (troclosene sodium, dihydrate)

· **Air transport ICAO-TI and IATA-DGR:**



· **ICAO/IATA Class:** 9
 · **UN/ID Number:** 3077
 · **Label** 9
 · **Special marking:** Symbol (fish and tree)
 · **Packaging group:** III
 · **Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (troclosene sodium, dihydrate)

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- **Special precautions for user** *Warning: Miscellaneous dangerous substances and articles.*
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** *Not applicable.*

15 Regulatory information

- **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. For substances with REACH registration number, information on the classification by Regulation (EC) No 1272/2008 are provided by the supplier of the substance. For all other substances, information on the classification by Regulation (EC) No 1272/2008 are purely illustrative (automatic software), and may be modified based on data suppliers.

- **Relevant phrases**
 - H302 Harmful if swallowed.*
 - H319 Causes serious eye irritation.*
 - H335 May cause respiratory irritation.*
 - H400 Very toxic to aquatic life.*
 - H410 Very toxic to aquatic life with long lasting effects.*
 - R22 Harmful if swallowed.*
 - R31 Contact with acids liberates toxic gas.*
 - R36/37 Irritating to eyes and respiratory system.*
 - R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*

- **Department issuing MSDS:** *EUROTAB INNOVATION*