Revision 02/11/17

# SAFETY DATA SHEET



1. Identif	ication of the sul	bstance/preparatio	n and of the o	company	/undertaking		
1.1	<b>Product Identifi</b> Trade Name: C	e <b>r</b> Calcium Hypochlorite	Flowmore Tat	olets			
1.2	Relevant Identified uses of the substance or mixture and uses advised against   Uses: Disinfection of Swimming Pool Water						
1.3	<b>Details of the su</b> Company: C U S B	upplier of the safety complete Pool Contro Init 2, The Park toke Orchard ishops Cleeve Gloucestershire	y data sheet				
	Telephone: +	6L52 7RS ⊦44 (0) 8712 229081 ales@cpc-chemicals			Fax: +44	l (0) 8712	229083
1.4	Emergency Tele				+44 (0) 1242 3002	271 (o	utside of office hours)
2. Hazaro	d Identification						
2.1		f the substance or ccording to Regula			)8 Target Organs	L	izard Statements
	Ox. Sol. 2 Acute Tox. 4 * Skin Corr. 1B Aquatic Acute 1	of the H statements n				H2 H3 H3	272 302 314 400
	Most important adverse effectsHuman Health:See section 11 for toxilogical informationPhysical & Chemical Hazards:See section 9 for physicochemical informationPotential environmental effects:See section 12 for environmental information						
2.2	Label elements Labelling accor	ding to Regulation	(EC) No 1272	2/2008			
	Hazard symbols:			(!)			
	Signal word:	Danger	•	•	•		
	H H H H	I272   May intens     I314:   Causes se     I400:   Very toxic     I302+EUH031:   Harm     I335+H336:   May cau	se respiratory	ns and ey ed. Conta irritation.	ct with acids libera May cause drows	siness or o	-
	Precautionary s	Precautionary statements:					
	P305+3	351+338: IF IN EYE	resent and eas ective gloves/p	nuously w sy to do - protective	- continue rinsing clothing/eye prote	ection/face ENTER o	e protection

<b>Trade Name:</b>	Т	rad	le	Ν	ar	ne:
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Calcium Hypochlorite Flowmore Tablets

azard Identification			
Additional Labellin	g: EUH031 Contact with acids	EUH031 Contact with acids liberates toxic gases	
Hazardous compo	nents which must be listed on the label	Calcium Hypochlorite	
2.3 Other Hazards	Use biocides safely. Always read the label and product information before use.		

# 3. Composition/information on ingredients

3.1 Mixtures	Calcium Hypochlorite
<b>Chemical Name</b>	% CAS No EINECS R/H Phrases
Calcium Hypochlorite	70 - 100% 7778-54-3 231-908-7 H272, H302, H314, H400

### 4. First Aid measures

### 4.1 Description of first aid measures

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.

- IF SWALLOWED: rinse mouth. Do NOT induce vomiting
- Get medical advice/attention

# 4.2 Most important symptoms and effects, both acute and delayed

- Can cause damage to the eyes and skin
- Prolonged skin or eye contact may cause chemical burns
- In cases of severe exposure, breathing difficulty may develop
- 4.3 Indication of immediate medical attention and special treatment needed

Treat symptomatically

# 5. Fire fighting measures

### 5.1 Extinguishing media:

- In case of fire: use carbon dioxide for extinction
- DO NOT USE dry extinguishers containing ammonium compounds such as dry powder

# 5.2 Special hazards arising from the substance or mixture

Calcium Hypochlorite is both a strong oxidiser and is chemically reactive with many substances. Strong oxidisers are capable of intensifying a fire once started; because of this any contamination of the product with other substances by spill or otherwise should be avoided.

- Gives off irritating or toxic fumes (or gases) in a fire.
- Exposure to decomposition products may be a hazard to health
- See Section 10.6

# 5.3 Advice for fire-fighters

- Wear protective clothing as per section 8

# Special protective equipment:

- Wear self-contained breathing apparatus (SCBA). Wear full protective clothing including chemical protection suit
- In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion

### 6. Accidental release Measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

- Wear protective clothing as per section 8
- Evacuate the area and keep personnel upwind
- Avoid raising dust
- Avoid contact with combustible material

#### 6.2 Environmental precautions

- Avoid release to the environment
- Do not allow to enter public sewers and watercourses
- If contamination of drainage systems or water courses is unavoidable, immediately inform appropriate authorities

#### 6.3 Methods and materials for containment and cleaning up

- Place in appropriate container
- Seal containers and label them
- Remove contaminated material to safe location for subsequent disposal
- Do not absorb spillage in sawdust or other combustible material
- Ventilate the area and wash spill site after material pick-up is complete

### 6.4 Reference to other sections

See Section 1 for emergency contact information See Section 7 & 8for information on Personal protective equipment See section 13 for waste treatment information

### 7. Handling and storage

### 7.1 Precautions for safe handling

- Do not mix with any other products
- Ensure adequate ventilation
- Avoid contact with skin and eyes.
- Avoid breathing dust/fume/gas/mist/vapours/spray.
- Do not eat, drink or smoke when using this product
- Wash thoroughly after handling.

#### 7.2 Conditions for safe storage, including any incompatibilities.

- Store away from other materials.
- Keep only in original container
- Store in a dry place.
- Protect from moisture
- Store in a well-ventilated place. Keep cool.
- Do not store above 35 °C
- Keep away from foodstuff.
- Keep away from acid.
- Keep away from reducing agents

### 7.3 Specific end uses

- No information available

# 8. Exposure control/personal protection

### 8.1 Control parameters

Calcium hypochlorite

- WEL (short term) 2 mg/m3

#### 8.2 Exposure controls

- Engineering controls should be provided which maintain airborne concentrations below the relevant guidelines

### 8. Exposure control/personal protection

# 8.2 Personal protective equipment

- In case of inadequate ventilation wear respiratory protection

- Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.

- Wear safety glasses approved to standard EN 166.
- Wear apron or other light protective clothing

# 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Appearance: white, granules
- Odour: chlorine
- pH 12 at 1 % concentration
- Boiling point not known
- Vapour pressure not applicable
- Vapour density not applicable
- Melting point 180° C with decomposition
- Water solubility 217 g/l at 27 °C
- Specific gravity not known
- Flash point not known
- Strong oxidising agent
- Partition coefficient:n-Octanol/water not known
- Evaporation rate -not known
- Viscosity not applicable

# 9.2 Other Information

- No information available

## 10. Stability and reactivity

### 10.1 Reactivity

- Strong oxidising agent
- Use with other products may release Chlorine

#### **10.2 Chemical stability**

- Decomposes above 180 °C

# 10.3 Possibility of hazardous reactions

- Contact with acids liberates toxic gas
  - Exothermic reaction on heating

### 10.4 Conditions to avoid

- Keep away from heat and moisture
- Prevent ingress of humidity and moisture into container or package. Always close the lid after use.
- Avoid contact with combustible material
- Avoid contact with foodstuffs

# 10.5 Incompatible materials

- Reacts with acids to produce free chlorine
- Incompatible with reducing agents
- Incompatible with metals
- Incompatible with strong oxidizing substances
- Ammonia

### Trade Name:

#### **Calcium Hypochlorite Flowmore Tablets**

# **10. Stability and reactivity**

# **10.6 Hazardous decomposition products**

- Decomposition products may include acidic and toxic gases
- Decomposition products may include oxygen
- Decomposition products may include chlorine
- Decomposition products may include carbon oxides

### **11. Toxilogical Information**

# 11.1 Information on toxilogical effects

- LD50 (oral,rat) 790 mg/kg
- Prolonged skin or eye contact may cause chemical burns

#### Inhalation

- May cause respiratory trac tirritation.
- Causes delayed pulmonary oedema

#### Contact with skin

- Causes blistering of the skin
- Causes redness and irritation
- -Can cause damage to the mucous membranes

### Contact with eyes

- Causes redness and swelling
- Causes burning sensation
- Can cause damage to the eyes

#### Ingestion

- The ingestion of significant quantities may cause burning sensation
- The ingestion of significant quantities may cause damage to the digestive system

Carcinogenicity - No evidence of carcinogenic effects Teratogenicity - No information available Mutagenicity - No information available

#### 12. Ecological Information

#### 12.1 Toxicity

- Very toxic to aquatic life
- LC50 (bluegill sunfish) 0.088mg/l (96hr)
- LC50 (rainbow trout) 0.16mg/l (96hr)
- EC50 (Daphnia magna) 0.116mg/l (48hr)

### 12.2 Persistence and degradability

- No information available

### 12.3 Bioaccumlative potential

- No information available

### 12.4 Mobility in soil

- This substance is poorly absorbed onto soils or sediments

- Large volumes may penetrate soil and contaminate groundwater

### 12.5 Results of PBT and PvB

- Not a PBT according to REACH Annex XIII

# 12.6 Other adverse effects

- Do not allow product to reach ground water, water course or sewage system.
- Must not reach sewage water or drainage ditch undiluted or unneutralized.
- Danger to drinking water if even extremely small quantities leak into the ground.
- May cause long term adverse effects in the aquatic environment

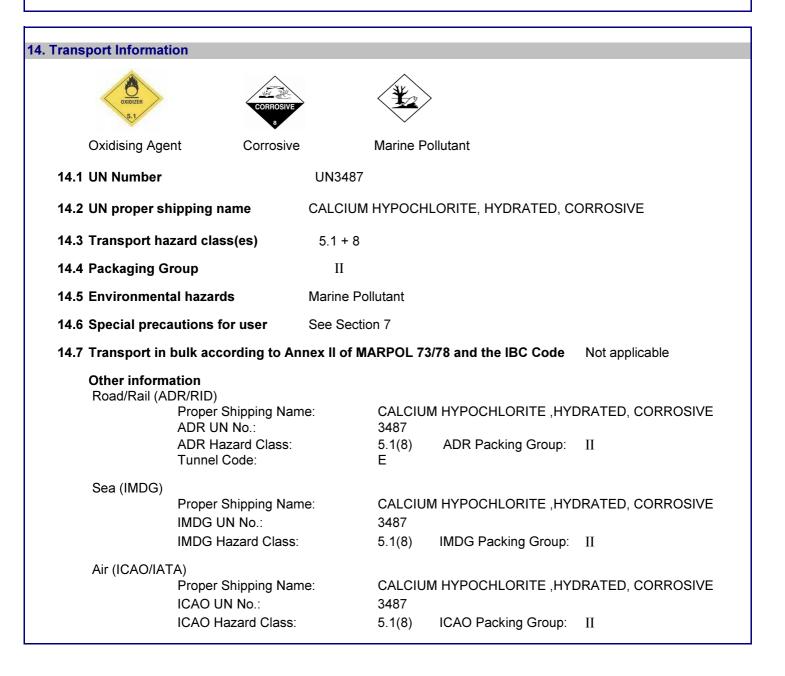
#### 13. Disposal Considerations

### 13.1 Waste treatment methods

- Disposal should be in accordance with local, state or national legislation
- Avoid release to the environment
- Do not allow to enter public sewers and water coursest
- This material and/or its container must be disposed of as hazardous waste
- Do not reuse empty containers without commercial cleaning or reconditioning

### Classification

Waste Codes in accordance with the European Waste catalogue (EWC) are origin-defined. Since this product is used in several industries, no Waste Code can be provided by the supplier. The Waste Code should be determined in arrangement with your waste disposal partner or the responsible authority



### 15. Regulatory information

**15.1 Safety, health and environmental regulations/legislation specific for this substance or mixture.** This Safety Data Sheet is provided in compliance with REACH Regulation (EC) No 1907/2006

## **15.2 Chemical Safety Assessment**

No informaiton available

### 16. Other information

**Text of R and S phrase codes used in this safety data sheet:-** H272: May intensify fire; oxidizer.; H302: Harmful if swallowed.; H314: Causes severe skin burns and eye damage.; H400: Very toxic to aquatic life.; R22: Harmful if swallowed; R31: Contact with acids liberates toxic gas; R34: Causes burns; R50: Very toxic to aquatic organisms; R8: Contact with combustible material may cause fire.

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Rev 8 Indicates updated section