

1. Identification of the substance/preparation and of the company/undertaking

- 1.1 Product Identifier CH00 48 - DISINFECTANT TABLETS
- 1.2 Relevant Identified uses of the substance or mixture and uses advised against
Uses: For general disinfection.
- 1.3 Details of the supplier of the safety data sheet

Supplier(Importer): Wilton Bradley Europe B.V.
Address: Barbara Strozziilaan 201, 1083HN, Amsterdam, Netherlands
Contact person (E-mail): sales@wiltonbradley.co.uk
Telephone: +44 (0)1626 835400
Fax: +44 (0)1626 836656

Emergency telephone number

+44 (0)333 301 0644

Available outside office hours? YES NO

2. Hazard Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Hazard Class	Hazard Statements
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Acute Tox. 4 *	H302
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Eye Irrit. 2	H319
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STOT SE 3	H335
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Aquatic Acute 1	H400
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Aquatic Chronic 1	H410
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For the full text of the H statements mentioned in this section see Section 16.

Most important adverse effects

Human Health: See section 11 for toxicological information.

Physical & Chemical Hazards: See section 9 for toxicological information.

Potential environmental effects: See section 12 for toxicological information.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard symbols:



Signal word: Warning

Hazard statements:

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.
EUH031	Contact with acid liberates toxic gas

Precautionary statements:

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

2. Hazard Identification...cont

P262	Do not get in eyes, on skin, or on clothing.
P273	Avoid release to the environment.
P264	Wash thoroughly after handling.
P261	Avoid breathing dust.
P303+P361+P353	IF ON SKIN: Remove / 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
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P312.	Call a POISON CENTER or doctor/physician if you feel unwell.
P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P391	Collect spillage.
P401	Store in accordance with local/regional/national/international regulations.
P405	Store locked up.
P501	Dispose of contents/container in accordance with national regulations.

Hazardous components which must be listed on the label

Sodium Dichloroisocyanurate Dihydrate

2.3 Other Hazards

PBT & PvB Not applicable.

3. Composition/information on ingredients

3.1 Substances

Chemical nature: Tablets

Sodium Dichloroisocyanurate Dihydrate,

CAS No	EC No	%	CLP phrases
51580-86-0	220-767-7	50 -100%	H302, H319, H335,H400,H410

Ingredients according to Regulation (EC) No 648/2004:

chlorine-based bleaching agents >30%

4. First Aid measures

4.1 Description of first aid measures

General Advice: Take off all contaminated clothing immediately. Symptoms of poisoning may occur after several hours. Medical observation for at least 48 hours after the accident is recommended.

If inhaled: : Supply fresh air; consult doctor in case of symptoms

In case of skin contact: Wash with soap and water. If skin irritation continues, consult a doctor.

In case of eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Use eye protection. Call a doctor immediately

If swallowed: Do not induce vomiting! Rinse out mouth and then drink plenty of water. Seek immediate medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: No further information available.

Effects: No further information available.

4.3 Indication of immediate medical attention and special treatment needed

Treatment Treat Symptomatically.

5. Fire fighting measures

5.1 Extinguishing media:

Suitable media: Only use water
 Unsuitable media: All but water

5.2 Special hazards arising from the substance or mixture

Under certain fire conditions, traces of other toxic gases cannot be excluded.

Formation of poisonous gases during heating or in fires.

Nitrogen oxides (NO_x); Hydrogen chloride (HCl); Carbon monoxide (CO) and Carbon dioxide (CO) 2

5.3 Advice for fire-fighters

Protective equipment: Fire-fighters should wear full protective clothing and self-contained breathing apparatus (SCBA). Thoroughly decontaminate fire-fighting equipment including all fire fighting wearing apparel after the incident.

Further Information: Collect contaminated fire extinguishing water separately.

6. Accidental release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions: Keep people at a distance and stay on the windward side. Do not breathe vapours. Put on breathing apparatus. Ensure adequate ventilation. Avoid contact with eyes.

6.2 Environmental precautions

Environmental precautions Do not flush into surface water or sanitary sewer system.

Inform respective authorities in case product reaches water or sewage system.

6.3 Methods and materials for containment and cleaning up

Cleaning Up: Ensure adequate ventilation. Collect mechanically. Send for recovery or disposal in suitable containers. Dispose of the material collected according to regulations.

6.4 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 information on disposal

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling:

Ensure good ventilation/exhaustion at the workplace. Do not replace residual quantities in storage containers. Avoid breathing vapours. Do not breathe dust. Make sure that all applicable workplace limits are observed. Avoid mixing with acids/materials containing acids under any circumstances. Avoid contact with skin and eyes.

Hygiene measures:

Keep away from food, drink and animal feeding stuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of the work day. Take off all contaminated clothing immediately.

7.2 Conditions for safe storage, including any incompatibilities.

Storage areas : Observe all local and national regulations for storage of water polluting products.

Protection against fire: Keep breathing equipment ready

Further information: Store in cool, dry conditions in well sealed containers. Store container in a well ventilated position.

Common storage: Do not store together with acids

7.3 Specific end uses

Specific use(s) No information is available.

8. Exposure control/personal protection

8.1 Control parameters

Components with critical values that require monitoring at the workplace:
Observe all workplace limits for dust.

Sodium dichloroisocyanurate, dihydrate	ppm	mg/m ³
WEL (Great Britain)	Short-term value:	0.07
	Long Term Value	0.02
	Sen; as -NCO	

· Additional Occupational Exposure Limit Values for possible hazards during processing:

7782-50-5 Chlorine	ppm	mg/m ³
WEL (Great Britain)	Short-term value:	0.5 1.5
IOELV (European Union)	Short-term value:	0.5 1.5

Additional information: The lists that were valid during the compilation were used as basis.

8.2 Exposure controls

General measures	Keep away from foodstuffs, beverages and food. Instantly remove any contaminated garments. Wash hands during breaks and at the end of the work. Use skin protection cream for preventive skin protection. Do not eat, drink or smoke while working.
Personal protective equipment	
Respiratory protection	Dust proof mask - particle filter mask In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air. Use breathing protection in case of dust formation
Hand protection	Protective gloves To avoid skin problems reduce the wearing of gloves to the required minimum. Check the permeability prior to each renewed use of the glove. The glove material has to be impermeable and resistant to the product. Due to missing tests no recommendation to the glove material can be given. Penetration time \geq 8 hours Protective gloves should be replaced at first signs of wear. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Eye protection	Tightly sealed safety glasses
Skin and body protection	Protective work clothing. Protective clothing should be selected specifically for the work place.
Environmental exposure controls	General room ventilation plus local exhaust should be used to maintain exposure below TLV. Eyewash and emergency shower facilities recommended. Remove and wash contaminated clothing before reuse.
General advice:	

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form:	Tablets
Colour:	Whitish
Odour:	Characteristic chlorine
Odour threshold:	Not determined
pH @ 20 °C:	6
Melting point	250°C
Flash point:	Not applicable
Inflammability (solid, gas)	Product is not inflammable
Ignition temperature	250°C (DIN 51794)

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Danger of explosion	product is not explosive
Oxidising properties:	Oxidising
Vapour pressure:	not applicable
Density @ 20 °C:	100 kg/m ³
Relative density	Not determined
Vapour density (AIR = 1):	Not applicable
Evaporation rate	Not applicable
Water solubility:	250 gm/litre @25 °C

Organic solvents: 0.00%

Solids content: 100%

9.2 Other Information No further information

10. Stability and reactivity

10.1 Reactivity

Reactivity No information available

10.2 Chemical stability

Chemical stability No information available

10.3 Possibility of hazardous reactions

Hazardous reactions Gives off hydrogen by reaction with metals. Reacts exothermic with water.

10.4 Conditions to avoid

Conditions to avoid Damp or slightly wet conditions may slowly liberate hazardous gases. (will gradually degenerate to Nitrogen Trichloride)

10.5 Incompatible materials

Materials to avoid Alkaline materials: Strong acids: Reducing agents: Strong oxidizing agents.

10.6 Hazardous decomposition products

Haz. Decomp. products: Nitrogen oxides (NOx): Hydrogen chloride (HCl): Poisonous gases/vapours: Carbon monoxide (CO) and Carbon dioxide (CO₂).**11. Toxicological Information**

11.1 Information on toxicological effects

Toxicity Values

LD/LC50 values that are relevant for classification: Sodium dichloroisocyanurate, dihydrate

Route	Species	Test	Value	Units
Oral	Rat	LD50	1400	mg/kg
Oral	Human	LDLo	3570	mg/kg
Dermal	Rabbit	LD50	>5000	mg/kg

Primary Irritant effect:

On the skin: Longer lasting and/or repeated skin contact may cause irritation.

On the eyes: Irritant effect

Sensitization: No data available

12. Ecological Information

12.1 Aquatic toxicity:

Sodium dichloroisocyanurate, dihydrate

Species	Test	Time	Value	Units	
Daphnia	LC50	48h	0.28	mg / l	(ECOTOX Database)
Rainbow Trout	LC25	4.4	4.4	mg / l	(ECOTOX Database)

12.2 Persistence and degradability No further relevant information available

12.3 Bioaccumulative potential No further relevant information available

12.4 Mobility in soil No further relevant information available

12.5 Results of PBT and PvB assessment

- PBT: Not applicable.
- vPvB: Not applicable.

12.6 Other adverse effects

Ecotoxicological effects

Very toxic for fish and aquatic organisms

General Notes

Water hazard class 2 (Assessment by list): hazardous for water

13. Disposal Considerations

13.1 Waste treatment methods

- Disposal should be in accordance with local, state or national legislation
- Do not reuse empty containers without commercial cleaning or reconditioning
- Do not discharge into drains or the environment ,dispose to an authorised waste collection point

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

14. Transport Information

14.1 UN Number	3077								
14.2 UN proper shipping name	3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID N.O.S. (SODIUM DICHLOROISOCYANURATE DIHYDRATE)								
14.3 Transport hazard class(es)	<table> <tbody> <tr> <td>Class</td> <td>9</td> </tr> <tr> <td>Classification Code</td> <td>M7</td> </tr> <tr> <td>Hazard label</td> <td>90</td> </tr> <tr> <td>Transport Category</td> <td>3</td> </tr> </tbody> </table>	Class	9	Classification Code	M7	Hazard label	90	Transport Category	3
Class	9								
Classification Code	M7								
Hazard label	90								
Transport Category	3								
14.4 Packaging Group	III								
14.5 Environmental hazards	<table> <tbody> <tr> <td>Environmentally Hazardous</td> <td>Yes</td> </tr> <tr> <td>Marine Pollutant</td> <td>Yes</td> </tr> </tbody> </table>	Environmentally Hazardous	Yes	Marine Pollutant	Yes				
Environmentally Hazardous	Yes								
Marine Pollutant	Yes								
14.6 Special precautions for user	Warning: Miscellaneous dangerous substances and articles								
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	N/a								

15. Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for this substance or mixture.
The substance is classified and labelled according to the CLP regulation

Information about limitation of use:

Employment restrictions concerning young persons must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

Decree to be applied in case of technical fault:

Quantity limits according to "EC Seveso directive" should be observed.

Water hazard class: Water hazard class 2 (Assessment by list): hazardous for water

Other regulations, limitations and prohibitive regulations

The substance / components are listed in: EINECS / ELINCS (Europa)

- 15.2 Chemical Safety Assessment

Currently we do not have any information from our supplier about this.

16. Other information

Full text of H-statements referred to under sections 2 and 3

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.

Further information

S1/2 Keep locked up and out of reach of children

S8 Keep container dry

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S41 In case of fire and/or explosion do not breathe fumes

S60 This material and/or its container must be disposed of as hazardous waste

S61 Avoid release to the environment. Refer to special instructions / Safety Data Sheet

Restricted to professional users. Attention - Avoid exposure- obtain special instructions before use

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Revision 3

█ Indicates updated section.