

1. IDENTIFICATION

Product Trade Name: diffix+ Disinfectant Tablets
Item 60086

Manufacturer: maxill inc.

Address: 80 Elm Street
St. Thomas, ON
N5R 6C8

Telephone: +1 519-631-7370, FAX +1 519-631-3388

Website: www.maxill.com

Emergency telephone: maxill 1-800-268-8633

Emergency telephone (24h): CANUTEC 1-888-226-8832 (1-888-CAN-UTEC)
ChemTel 1-800-255-3924, +1-813-248-0585

Supplier: See above.

2. HAZARDS IDENTIFICATION

Physical hazards Not classified

Health hazards Eye Irritant: Category 2 – causes serious eye irritation
Target Organ Toxicity (single exposure): Category 3 – May cause respiratory tract irritation

Environmental hazards Hazardous to Aquatic Environment - Acute Hazard:
Category 1 - Very toxic to aquatic life
Hazardous to Aquatic Environment - Chronic Hazard:
Category 1 - Very toxic to aquatic life with long lasting effects

WHMIS 2015 defined hazards Not classified

Label elements



Hazard symbol

Signal word

Hazard statement

Warning

Causes serious eye irritation. May cause respiratory irritation. Very toxic to aquatic life with long lasting effects. Contact with acids liberates toxic gas.

Precautionary statement

Prevention

Wear eye protection/face protection. Avoid breathing dust/fume /gas/mist/vapours/spray. Avoid release to the environment.

Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical help.

Storage

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. Collect spillage.

Store in a well-ventilated place. Keep container tightly closed.

Disposal

Dispose of waste and residues in accordance with local, regional, national and international regulations.

WHMIS 2015: Health Hazard(s) not otherwise classified (HHNOC)

None known

WHMIS 2015: Physical Hazard(s) not otherwise classified (PHNOC)

None known

Hazard(s) not otherwise classified (HNOC)

None known

Supplemental information

Exempt – Disinfectant Drug (DIN 02505630)

This product is not subject to the Hazardous Products Act (HPA) Part II (Hazardous Products) as per paragraph 12(j); Schedule 1 (Non-Application of Part II).

This restriction states that Part II does not apply in respect of the sale or importation of anything listed in Schedule 1 which includes any pest control product as defined in subsection 2(1) of the Pest Control Products Act, any explosive as defined in section 2 of the Explosives Act, any cosmetic, device, drug or food, as defined in section 2 of the Food and Drugs Act, any consumer product as defined in section 2 of the Canada Consumer Product Safety Act and any wood or product made of wood.

3. Composition / Information on ingredients

Mixture

Ingredient	CAS #	% by wt.
Troclosene Sodium	220-767-7	30 – 60 %
Adipic Acid	204-673-3	10 – 30 %
Sodium Carbonate	207-838-8	5 – 10 %
Surfac SDBS80	NAV	1 – 5 %

Composition comments US GHS: The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

CANADA GHS: The exact percentage (concentration) of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation	Move person to fresh air. Keep person at rest in a position comfortable for breathing. If breathing is difficult have trained person administer oxygen. If respiration stops, have a trained person administer artificial respiration. Get medical attention immediately.
Skin contact	Immediately brush off excess chemical and flush with plenty of soap and water. Remove contaminated clothing. Wash clothing before reuse. If signs of irritation or discomfort, seek medical attention.
Eye contact	Immediately brush off excess chemical and flush with plenty of soap and water. Remove contaminated clothing. Wash clothing before reuse. If signs of irritation or discomfort, seek medical attention. Immediately flush eyes with a directed stream of water for at least 15 minutes, forcibly holding eyelids apart to ensure complete irrigation of all eye and tissue. Remove contact lens, if present, after first 5 minutes, then continue rinsing eye. Obtain medical advice.
Ingestion	Never give anything by mouth to an unconscious person. If swallowed do not induce vomiting. Give large quantities of water. (If available give several glasses of milk). If vomiting occurs spontaneously keep airway clear and give more water. Get medical attention if there are signs of discomfort or ill health.
Note to Physician	Probable mucosal damage may contraindicate the use of gastric lavage.

5. Fire-fighting measures

Suitable extinguishing media	Douse with water / fog. Foam.
Unsuitable extinguishing media	Dry chemicals, CO ₂ or halogenated extinguishers.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire-fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	Negligible fire hazard. No unusual explosion hazards noted.
Hazardous combustion products	May include and are not limited to chlorine, nitrogen, nitrogen trichloride, cyanogens chloride, oxides of carbon phosgene.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Contain spilled material as soon as possible. Do not add water to spilled material. Sweep and scoop spilled material and contaminated material and place into clean, dry containers for disposal. Keep dry, do not transport wet material. For disposal, see section 13 of the SDS.

Environmental precautions

Do not release into the environment. Avoid discharge into drains, water courses or onto the ground. Do not discharge into lakes, streams, ponds or public waters. Notify downstream users of possible contamination.

7. Handling and storage

Precautions for safe handling

Do not get in eyes, on skin or on clothing. Avoid breathing airborne particulates; wear respiratory protection when exposure is possible. Wear goggles or face shield and rubber gloves when handling. Wash hands thoroughly with soap and water after handling. Wash contaminated clothing before use. Use only outdoors or in a well-ventilated area. Vapour space in a closed container may contain a slight amount of chlorine gas & compounds from decomposition of the product.

Conditions for safe storage

Store in original container and in a cool dry area where temperatures do not exceed 25°C. Keep container tightly closed and store away from incompatible materials (refer to section 10 for list of incompatible materials). Contact with acid liberates toxic gases. Do not allow water to get into the container. Keep out of reach of children.

8. Exposure controls / personal protection

General measures

Avoid contact with skin. Wash with soap and water.

Respiratory protection

Not required with handling per the label. An approved respirator with EN140 (chlorine) cartridges may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits, or when symptoms have been observed that are indicative of overexposure.

Skin protection	Impervious gloves, goggles, apron are recommended. Contaminated clothing should be removed and laundered before reuse.
Hand protection	Impervious gloves or clothing.
Other equipment	Butyl rubber, natural rubber, neoprene, Nitrile, PVC, Tyvek

9. Physical and chemical properties

Appearance	White to off-white tablet
Odour	Slight chlorine
pH	5 – 7
Boiling point	Not applicable (solid)
Flash point	Not applicable (solid)
Flammability	Not flammable
Explosive Limits in Air	Not applicable
Vapor Pressure	Not applicable (not volatile)
Vapor Density (Air=1)	Not applicable (not volatile)
Solubility in Water	Soluble
Thermal Decomposition Temp.	225 – 250°C

10. Stability and reactivity

Reactivity	May react with incompatible materials.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Do not mix with other chemicals.
Incompatible materials	Strong acids and/or alkalines. Reducing agents. Combustible material. The active ingredient in this preparation is a strong oxidizing agent. The preparation of concentrated solutions or slurries is not recommended. Avoid contact with water on concentrated material in the container. Also avoid contact with easily oxidizable organic material: ammonia, urea or similar nitrogen containing compounds; inorganic reducing compounds; floor sweeping compounds; calcium hypochlorite and alkalis. Do not get water inside packaging.
Hazardous decomposition products	If heated by outside source to temperatures above 240°C, this il undergo decomposition with the evolution of noxious gases but no visible flame. Wet material may generate nitrogen trichloride, an explosion hazard.

11. Toxicological information

Routes of exposure	Eye, skin contact, inhalation, ingestion
Information on likely routes of exposure	

Skin contact	Not classified as irritating to the skin. Not a potential sensitizer.
Eye contact	Causes eye irritation (in-use solution is not irritating to the eyes)
Acute eye effects	Not established
Acute dermal effects	Not established
Acute inhalation effects	Not established
Acute oral effects	Not established
Sensitization	This product is not expected to cause skin or respiratory sensitization.
Mutagenicity	Not mutagenic in 5 <i>Salmonella</i> strains and 1 <i>E. coli</i> strain
Carcinogenicity	Not classified
Reproductive toxicity	There are no known or recorded effects on reproductive function or development of unborn children
Teratogenicity	Not available
Aspiration hazard	Not an aspiration hazard

12. Ecological information

Based on information relating to Sodium dichlorisocyanurate, this product is likely to be highly toxic to aquatic life. No specific ecological data are available for this product. Please refer to Section 6 for information regarding accidental releases and Section 15 for regulatory reporting information.

Persistence & Biodegradability The materials used in this preparation will not persist in the environment. The free available chlorine from Sodium dishloroisocyanurate is rapidly consumed by reaction with organic and inorganic materials to produce chloride ion. The stable degradation products are chloride ion and cyanuric acid. Sodium Dichloroisocyanurate is subject to hydrolysis. Cyanuric acid produces by hydrolysis is biodegradable.

Bioaccumulative Potential Trichloroisocyanuric acid hydrolyses in water liberating chlorine and cyanuric acid. These products are not bioaccumulative.

PBT Assessment The substances contained in this preparation are not identified as PBT substances.

13. Disposal considerations

Disposal instructions (unused products, waste from residues, contaminated packaging) Dispose of waste and residues in accordance with local, regional, national and international regulations. Do not put product, spilled product, partially filled containers into the water compactor. Contact with incompatible materials could cause a reaction and fire. Do not transport damp or wet material. Neutralize materials to a non-oxidizing state for safe disposal.

14. Transport information

Transport of Dangerous Goods (TDG – Canada)

UN number	UN3077
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Hazard class	9
Packing group	III

U.S. Department of Transportation (DOT)

UN number	UN3077
Proper shipping name	Environmentally hazardous substance, solid, n.o.s
Hazard class	9
Packing group	III

ADR/IMDG/IATA Can be shipped as a limited quantity when packed in inner or single packs ≤ 5 kg.

ADR/IATA When packed in inner or single packs ≤ 5 kg, Special Provision 375 of 2015 UN Model Regulations for the transportation of dangerous goods (IATA Special Provision A197) exempts this product from the labelling and documentation provisions of Dangerous Goods Regulations.

IMDG: IMDG 2014 (2.10.2.7)

Marine pollutants packaged in single or combination packagings containing a net quantity per single or inner packaging having a net mass per single or inner packaging of 5 kg or less for solids are not subject to any other provisions of this Code relevant to marine pollutants provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

ADR/RID: UN No. 3077

Proper shipping name: Environmentally hazardous substance, solid, n.o.s (Dichloroisocyanuric acid, salts)

Class: 9 - Miscellaneous Dangerous Substances and Articles

Classification Code: M7

Hazard identification No. 90

Packing group: III

Marking: Environmentally hazardous substance

IMO: UN No. 3077

Proper shipping name: Environmentally hazardous substance, solid, n.o.s (Dichloroisocyanuric acid, salts)

Class: 9 - Miscellaneous Dangerous Substances and articles

Label: 9

Mark: MARINE POLLUTANT

Packing Group: III

ICAO/IATA: UN No. 3077

Proper shipping name: Environmentally hazardous substance, solid, n.o.s (Dichloroisocyanuric acid, salts)

Class: 9

Hazard label(s): Miscellaneous

Packing group: III

Marking: Environmentally hazardous substance

15. Regulatory information

The mixture is generally classified and registered as a disinfectant, biocide, or pesticide. A Chemical Safety Assessment has not been carried out.

Canadian federal regulations

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U.S. federal regulations

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

16. Other information

Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.