



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name	Chlorine Tablet
CAS #	Mixture
Product Use	Bleach, Stain remover, Deodorizer, Cleaner
Manufacturer	Lavo Inc. 11900 St-Jean-Baptiste Blvd Montreal, QC H1C 2J3 CA Phone: 514-526-7783 Fax: 514-526-2768 Website: www.lavo.ca
CANUTEC	1-613-996-6666

2. Hazards Identification

Emergency Overview	DANGER OXIDIZER. CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE. EYE AND SKIN IRRITANT. May be harmful if directly inhaled.
Potential short term health effects	
Routes of exposure	Eye, Skin contact, Inhalation, Ingestion.
Eyes	May cause severe irritation.
Skin	Causes irritation.
Inhalation	May be harmful if directly inhaled. Dusts and mists (from solutions) cause irritation of the respiratory system
Ingestion	May cause chemical burns to mouth, throat and stomach.
Target organs	Eyes. Skin. Respiratory system.
Chronic effects	Prolonged or repeated exposure can cause drying, defatting and dermatitis.
Signs and symptoms	Symptoms may include redness, oedema, drying, defatting and cracking of the skin.
Potential environmental effects	See section 12.

3. Composition/Information on Ingredients

Ingredient(s)	CAS #	Percent
Adipic acid	124-04-9	5 - 10
Sodium dichloroisocyanurate dihydrate	51580-86-0	60 - 100

4. First Aid Measures

First aid procedures	
Eye contact	Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for 15 minutes. Obtain medical attention immediately.
Skin contact	Brush away excess of dry material. Flush with water. Obtain medical attention if irritation persists.
Inhalation	If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention. If breathing has stopped, trained personnel should administer CPR immediately.
Ingestion	Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention immediately.
Notes to physician	Symptoms may be delayed.
General advice	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

5. Fire-fighting Measures

Flammable properties	Not flammable by WHMIS criteria.
Extinguishing media	
Suitable extinguishing media	Treat for surrounding material.
Unsuitable extinguishing media	DO NOT use dry chemical fire extinguishing agents containing ammonium compounds (such as some A:B:C agents). An explosive compound can be formed.
Protection of firefighters	
Specific hazards arising from the chemical	This substance is an oxidizing agent and can supply oxygen to stimulate or accelerate the combustion of organic or other combustible substances. Container may explode in heat of fire.
Protective equipment for firefighters	Firefighters should wear full protective clothing including self contained breathing apparatus.
Hazardous combustion products	May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Chlorine. Phosgene. Nitrogen trichloride.
Explosion data	
Sensitivity to mechanical impact	Not available
Sensitivity to static discharge	Not available

6. Accidental Release Measures

Personal precautions	Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.
Environmental precautions	Do not discharge into lakes, streams, ponds or public waters.
Methods for containment	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Prevent entry into waterways, sewers, basements or confined areas.
Methods for cleaning up	Before attempting clean up, refer to hazard data given above. Use broom or dry vacuum to collect material for proper disposal without raising dust. Rinse area with water. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. After removal flush contaminated area thoroughly with water.

7. Handling and Storage

Handling	Use good industrial hygiene practices in handling this material. Avoid contact with eyes and skin. Keep from contact with clothing and other combustible materials. Wear appropriate personal protective equipment when handling this product. Wash thoroughly after handling.
Storage	Keep out of reach of children. Keep away from heat, open flames or other sources of ignition. Store in tightly closed container. Store in a cool, dry, well-ventilated place away from incompatible materials.

8. Exposure Controls / Personal Protection

Exposure limit values	
Ingredient(s)	Exposure limit values
Adipic acid	ACGIH-TLV TWA: 5 mg/m ³
Sodium dichloroisocyanurate dihydrate	ACGIH-TLV Not established
Engineering controls	Use only under good ventilation conditions or with respiratory protection.
Personal protective equipment	
Eye/Face protection	Safety goggles or glasses.
Hand protection	Rubber gloves. Confirm with a reputable supplier first.
Skin and body protection	As required by employer code.

Respiratory protection	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

9. Physical and Chemical Properties

Appearance	Solid.
Colour	White
Form	Tablet.
Odour	Chlorine
Odour threshold	Not available
Physical state	Solid
pH	5.7 - 6
Freezing point	Not available
Boiling point	Not available
Pour point	Not available
Evaporation Rate	Not available
Flash point	Not available
Auto-ignition temperature	Not available
Flammability limits in air, lower, % by volume	Not applicable
Flammability Limits in Air, Upper, % by Volume	Not applicable
Vapour pressure	Not available
Vapour density	Not available
Specific gravity	0.94 - 0.95
Octanol/water coefficient	Not available

10. Stability and Reactivity

Reactivity	Reacts vigorously with acids.
Possibility of hazardous reactions	Hazardous polymerisation does not occur.
Chemical stability	Stable, however, may decompose if heated.
Conditions to avoid	Heat, open flames, static discharge, sparks and other ignition sources. Do not mix with other chemicals.
Incompatible materials	Acids. Oxidizers. Combustible materials. Organic materials.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Chlorine. Phosgene. Nitrogen trichloride.

11. Toxicological Information

Component analysis - LC50

Ingredient(s)	LC50
Adipic acid	> 31 mg/L rat
Sodium dichloroisocyanurate dihydrate	> 1637.5 mg/m ³ /4H rat

Component analysis - Oral LD50

Ingredient(s)	LD50
Adipic acid	940 mg/kg rat
Sodium dichloroisocyanurate dihydrate	620 mg/kg rat

Effects of acute exposure

Eye	May cause severe irritation.
Skin	Causes irritation.
Inhalation	May be harmful if directly inhaled. Dusts and mists (from solutions) cause irritation of the respiratory system
Ingestion	May cause chemical burns to mouth, throat and stomach.

Sensitisation	Non-hazardous by WHMIS criteria.
Chronic effects	Non-hazardous by WHMIS criteria.
Carcinogenicity	Non-hazardous by WHMIS criteria.
Mutagenicity	Non-hazardous by WHMIS criteria.
Reproductive effects	Non-hazardous by WHMIS criteria.
Teratogenicity	Non-hazardous by WHMIS criteria.
Name of Toxicologically Synergistic Products	Not available

12. Ecological Information

Ecotoxicity	Components of this product have been identified as having potential environmental concerns.	
Ecotoxicity - Freshwater Algae - Acute Toxicity Data		
Adipic acid	124-04-9	72 Hr EC50 <i>Desmodesmus subspicatus</i> : 31.3 mg/L; 96 Hr EC50 <i>Desmodesmus subspicatus</i> : 26.6 mg/L
Ecotoxicity - Freshwater Fish - Acute Toxicity Data		
Adipic acid	124-04-9	96 Hr LC50 <i>Pimephales promelas</i> : 97 mg/L [static]; 96 Hr LC50 <i>Leuciscus idus</i> : 230 mg/L [static]
Ecotoxicity - Water Flea - Acute Toxicity Data		
Adipic acid	124-04-9	48 Hr EC50 <i>Daphnia magna</i> : 85.7 mg/L
Persistence and degradability	Not available	
Bioaccumulation/accumulation	Not available	
Mobility in environmental media	Not available	
Environmental effects	Not available	
Aquatic toxicity	Not available	
Partition coefficient	Not available	
Chemical fate information	Not available	
Other adverse effects	Not available	

13. Disposal Considerations

Disposal instructions	Review federal, provincial, and local government requirements prior to disposal.
Waste from residues / unused products	Not available
Contaminated packaging	Not available

14. Transport Information

Transportation of Dangerous Goods (TDG - Canada)	Not regulated as dangerous goods.
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15. Regulatory Information

Canadian federal regulations	This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.	
Canada - WHMIS - Ingredient Disclosure List		
Adipic acid	124-04-9	1 %
WHMIS classification	Class C - Oxidizing Material, Class D - Division 1B, 2B	
WHMIS status	Controlled	
WHMIS labeling		



Inventory Status

Country(s) or region	Inventory Name	On Inventory (Yes/No)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

LEGEND HMIS	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	/ 2
Flammability	0
Physical Hazard	1
Personal Protection	X

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.

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Prepared by

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Other Information

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

This MSDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.