

SAFETY DATA SHEET

Chlor-i-sol, Chlorinated Manual Cleaner

Section 1. Chemical Product and Company Information

Product Name : Chlor-i-sol, Chlorinated Manual Cleaner
Other means of identification : Not applicable
Recommended Use : Manual Cleaning Product
Restrictions on Use : Reserved for industrial and professional use.

Supplier Information : AgroChem Inc.
26 Freedom Way
Saratoga Springs, NY 12866
(518) 226-4850

Code :
Date of issue : 10/05/2015

EMERGENCY HEALTH INFORMATION : 1 (800) 424-9300
Outside United States and Canada CALL: +1 (703) 741-5500

Section 2. Hazards Identification

GHS Classification

Serious eye irritation : Category 1
May be corrosive to metals : Category 1
Skin irritation : Category 2A

GHS Label Element

Hazard pictograms :



Signal Word : Warning
Hazard Statements : Causes serious eye irritation. Harmful if swallowed
Precautionary Statements :

Prevention: Wash skin thoroughly after handling. Wear eye protection/ face protection. Mixing this product with acid or ammonia releases chlorine gas.

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 advice/ attention. r.

Storage: Store locked up.

Disposal: Dispose of contents/ container to an approved waste disposal plant.

SAFETY DATA SHEET

Chlor-i-sol, Chlorinated Manual Cleaner

Other hazards : None Known

Section 3. Composition / Information on Ingredients

Pure substance/mixture : Mixture

Chemical Name	CAS-No.	Concentration (%)
Sodium carbonate	497-19-8	25.0 – 30.0
Pentasodium triphosphate	7758-29-4	25.0 - 30.0
Sodium metasilicate	6834-92-0	25.0 - 30.0
Sodium Dichloro-s-Triazinetrione Dihydrate	51580-86-0	1.0 – 5.0
Sodium dodecyl sulfate	151-21-3	1.0 – 5.0

Section 4. First Aid Measures

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. Get medical attention immediately.

In case of skin contact : Wash off immediately with plenty of water.

If swallowed : Rinse mouth. Get medical attention if symptoms occur.

If inhaled : Remove to fresh air. Get medical attention if symptoms occur.

Protection of first-aiders : If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Notes to physician : Treat symptomatically.

See toxicological information (Section 11)

Section 5. Fire-Fighting Measures

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : None known

Specific hazards during fire fighting : Not flammable or combustible.

Hazardous combustion : Decomposition products may include the following materials:

SAFETY DATA SHEET

Chlor-i-sol, Chlorinated Manual Cleaner

products	Carbon oxides
Special protective equipment for fire-fighters	: Use personal protective equipment.
Specific extinguishing methods	: Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	: Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.
Environmental precautions	Do not allow contact with soil, surface or ground water.
Methods and materials for containment and cleaning up	Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

Section 7. Handling and Storage

Advice on safe handling	Do not ingest. Do not get in eyes, on skin, or on clothing. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Use only with adequate ventilation. Wash hands thoroughly after handling. Do not mix with bleach or other chlorinated products – will cause chlorine gas.
Conditions for safe storage	Keep out of reach of children. Keep away from strong bases. Store in suitable labeled containers.
Storage temperature	-30 °C to 50 °C

SAFETY DATA SHEET

Chlor-i-sol, Chlorinated Manual Cleaner

Section 8. Exposure Controls / Personal Protection

Ingredients	CAS-No.	Form of Exposure	Permissible Concentration	Basis
chlorine	7782-50-5	TWA	0.5 ppm	ACGIH
		STEL	1 ppm	ACGIH
		Ceiling	0.5 ppm 1.45 mg/m ³	NIOSH REL
		C	1 ppm 3 mg/m ³	OSHA Z1

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

Personal protective equipment

Eye protection : Safety goggles with side-shields

Hand protection : No special protective equipment required.

Skin protection : No special protective equipment required.

Respiratory protection : No personal respiratory protective equipment normally required.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling.

Section 9. Physical and Chemical Properties

Appearance : Powder

Color : White, opaque

Odor : Slight

pH : 10.5 – 11.0, 1%

Flash point : Not applicable, Does not sustain combustion.

Odor Threshold : No data available

Melting point/freezing point : No data available

Initial boiling point and boiling range : No data available

Evaporation Rate : No data available

Flammability (solid, gas) : No data available

SAFETY DATA SHEET

Chlor-i-sol, Chlorinated Manual Cleaner

Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapor pressure	: No data available
Relative vapor density	: No data available
Relative density	: No data available
Water solubility	: No data available
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Autoignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity, kinematic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Molecular weight	: No data available
VOC	: No data available

Section 10. Stability and Reactivity

Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	Mixing this product with acid or ammonia releases chlorine gas.
Conditions to avoid	None known.
Incompatible materials	Acids Metals
Hazardous decomposition products	Decomposition products may include the following materials: Carbon oxides

Section 11. Toxicological Information

Information on likely routes of exposure	: Inhalation, Eye contact, Skin contact
Potential Health Effects	: No data available
Eyes	: Causes serious eye damage.

SAFETY DATA SHEET

Chlor-i-sol, Chlorinated Manual Cleaner

Skin : Health injuries are not known or expected under normal use.
 Ingestion : Health injuries are not known or expected under normal use.
 Inhalation : Health injuries are not known or expected under normal use.
 Chronic Exposure : Health injuries are not known or expected under normal use.

Experience with human exposure :

Eye contact : Redness, Pain, Irritation
 Skin contact : Redness, Pain, Corrosion
 Ingestion : Corrosion, Abdominal pain
 Inhalation : Respiratory irritation, Cough

Toxicity :

Acute oral toxicity : Acute toxicity estimate : > 3,500 mg/kg
 Acute inhalation toxicity : No data available
 Acute dermal toxicity : No data available
 Skin corrosion/irritation : No data available
 Serious eye damage/eye irritation : No data available
 Respiratory or skin sensitization : No data available
 Carcinogenicity : No data available
 Reproductive effects : No data available
 Germ cell mutagenicity : No data available
 Teratogenicity : No data available
 STOT-single exposure : No data available
 STOT-repeated exposure : No data available
 Aspiration toxicity : No data available

Ingredients

Acute dermal toxicity : Sodium Dichloro-s-Triazinetrione Dihydrate
 LD50 rat: > 5,000 mg/kg

Section 12. Ecological Information

Ecotoxicity

Environmental Effects : Toxic to aquatic life.

Product

Toxicity to fish : No data available
 Toxicity to daphnia and other : No data available

SAFETY DATA SHEET

Chlor-i-sol, Chlorinated Manual Cleaner

aquatic invertebrates

Toxicity to algae : No data available

Ingredients

Toxicity to daphnia and other aquatic invertebrates : No data available

Persistence and degradability : No data available

Bioaccumulative potential : No data available

Mobility in soil : No data available

Other adverse effects : No data available

Section 13. Disposal Considerations

Disposal methods : The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

Section 14. Transport Information

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (DOT) Not dangerous goods
DOT Special Provision #28 states: The dihydrated sodium salt of dichloroisocyanuric acid is not subject to the requirements of this subchapter

Sea transport (IMDG/IMO) Not dangerous goods

Section 15. Regulatory Information

EPCRA - Emergency Planning and Community Right-to-Know

SAFETY DATA SHEET

Chlor-i-sol, Chlorinated Manual Cleaner

CERCLA Reportable Quantity

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Acute Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop 65 : This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

The ingredients of this product are reported in the following inventories:

United States TSCA Inventory : Not determined

Canadian Domestic Substances List (DSL) : Not determined

Australia Inventory of Chemical Substances (AICS) : Not determined

New Zealand. Inventory of Chemical Substances : Not determined

Japan. ENCS - Existing and New Chemical Substances Inventory : Not determined

Japan. ENCS - Existing and New Chemical Substances Inventory : Not determined

Japan. ISHL - Inventory of Chemical Substances : Not determined

Korea. Korean Existing Chemicals Inventory (KECI) : Not determined

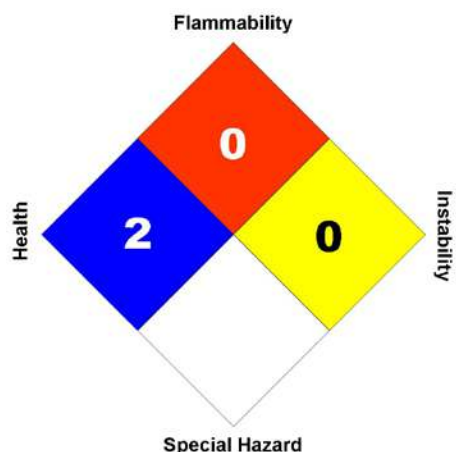
Philippines Inventory of Chemicals and Chemical Substances (PICCS) : Not determined

China. Inventory of Existing Chemical Substances in China (IECSC) : Not determined

Section 16. Other Information

SAFETY DATA SHEET

Chlor-i-sol, Chlorinated Manual Cleaner



HMIS III:

HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = Not Significant, 1 = Slight
 2 = Moderate, 3 = High
 4 = Extreme, * = Chronic

Issuing date : 4/20/2015
 Version : 1.0
 Prepared by : RJD

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.