

Safety Data Sheet ACTICHLOR

Supersedes Date 09/15/2014

Issuing Date 09/30/2016

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name ACTICHLOR
Recommended use Pesticide
Information on Manufacturer
CHEM-AQUA
253 ORENDA ROAD
BRAMPTON ONT L6T 1E6

Product Code 0120
Chemical nature sodium hypochlorite solution
Emergency Telephone Number
CHEMTREC® 800-424-9300
Telephone inquiry
972-579-2477

2. HAZARD IDENTIFICATION

Color Green - Yellow

Physical state Liquid

Odor Chlorine

GHS

Classification

Physical Hazards

None

Health Hazard

Skin Corrosion/Irritation
Serious Eye Damage/Eye Irritation

Category 1

Category 1

Other hazards

None

Labeling

Signal Word

DANGER



Hazard statements

H314 - Causes severe skin burns and eye damage

Precautionary Statements

P280 - Wear protective gloves, protective clothing and eye protection.
P264 - Wash face, hands and any exposed skin thoroughly after handling
P260 - Do not breathe mist
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower
P332 + P313 - If skin irritation occurs, get medical attention.
P363 - Wash contaminated clothing before reuse
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a physician
P304 + P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
P342 + P311 - If experiencing respiratory symptoms, call a physician
P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Call a physician if unwell.
P501 - Dispose of contents and container in accordance with applicable local regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No.	Weight %
Sodium hypochlorite	7681-52-9	7-13

*The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST AID MEASURES

General advice	Do not get in eyes, on skin or on clothing. Do not breathe mist.
Eye Contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately.
Skin Contact	Remove immediately all contaminated clothing. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately.
Inhalation	Move to fresh air. In case of shortness of breath, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately.
Ingestion	Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.
Notes to physician	The product causes burns of eyes, skin and mucous membranes. Control of circulatory system, shock therapy if needed.

5. FIRE-FIGHTING MEASURES

Flash Point	Does not flash	Method	No data available
Flammability Limits in Air %:	Hydrogen, by reaction with metals.	Upper:	75
		Lower:	4
Suitable Extinguishing Media	Water spray. Foam. Carbon dioxide (CO ₂). Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.		
Specific hazards arising from the chemical	Contact with metals liberates flammable hydrogen gas. Material can create slippery conditions.		
Protective Equipment and Precautions for Firefighters	As in any fire, wear self-contained breathing apparatus pressure-demand, NOHSC (approved or equivalent) and full protective gear.		
NFPA	Health 3	Flammability 0	Instability 1
HMIS	Health 3	Flammability 0	Instability 1

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use personal protective equipment. Ensure adequate ventilation. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.
Environmental Precautions	Do not flush into surface water or sanitary sewer system.
Methods for Containment	Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
Methods for Cleaning Up	Pick up and transfer to properly labeled containers.
Neutralizing Agent	Acetic acid, diluted.

7. HANDLING AND STORAGE

Handling	Do not get in eyes, on skin or on clothing. Do not breathe mist.			
Storage	Store in original container. Metal containers must be lined. Keep containers tightly closed in a dry, cool and well-ventilated place. Freezing will affect the physical condition but will not damage the material. Thaw and mix before using.			
Storage Temperature	Minimum	35 °F / 2 °C	Maximum	70 °F / 21 °C
Storage Conditions	Indoor	X	Outdoor	Heated Refrigerated

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
Engineering Measures	Ensure adequate ventilation, especially in confined areas. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.
Personal Protective Equipment	
Eye/Face Protection	Tightly fitting safety goggles. Face-shield.
Skin Protection	Wear suitable protective clothing, Impervious gloves.
Respiratory Protection	In case of inadequate ventilation wear respiratory protection.
General Hygiene Considerations	Wear protective gloves/clothing. Ensure that eyewash stations and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid	Viscosity	Non viscous
Color	Green - Yellow	Odor	Chlorine
Odor Threshold	Not applicable	Appearance	Transparent
pH	> 13	Specific Gravity	1.168

Evaporation Rate	No data available (Butyl acetate=1)	Percent Volatile (Volume)	80
VOC Content (%)	0	VOC Content (g/L)	0
Vapor Pressure	>17.5 mmHg @ 70°F	Vapor Density	No information available (Air = 1.0)
Solubility	Completely soluble	n-Octanol/Water Partition	No data available
Melting Point/Range	No data available	Decomposition Temperature	No data available
Boiling Point/Range		Flammability (solid, gas)	No data available
Flash Point	Does not flash	Method	No data available
Autoignition Temperature	No information available.		
Flammability Limits in Air %:	Hydrogen, by reaction with metals	Upper: 75 Lower: 4	

10. STABILITY AND REACTIVITY

Chemical Stability	Stable. Hazardous polymerization does not occur.
Conditions to Avoid	Extremes of temperature and direct sunlight.
Incompatible Products	Oxidizing agents, Reducing agents, Metals, Acids, Nitrogen, Organic Solvents.
Decomposition Temperature	No data available
Hazardous Decomposition Products	Chlorine gas.
Possibility of Hazardous Reactions	None under normal processing.

11. TOXICOLOGICAL INFORMATION

Product Information No information available.

The following values are calculated based on chapter 3.1 of the GHS document

Oral LD50	No information available
Dermal LD50	No information available
Inhalation LC50	
Gas	No information available
Mist	No information available
Vapor	No information available

Principle Route of Exposure Skin contact, Eye contact, Inhalation.

Primary Routes of Entry None known.

Acute Effects:

Eyes	Corrosive to the eyes and may cause severe damage including blindness.
Skin	Causes skin burns.
Inhalation	Harmful by inhalation. Causes burns.
Ingestion	If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach. May be fatal if swallowed.

Chronic Toxicity

Target Organ Effects Inhaled corrosive substances can lead to a toxic edema of the lungs.

Aggravated Medical Conditions Respiratory system, Skin, Eyes.

Skin disorders, Respiratory disorders.

Component Information

Acute Toxicity

Component	Oral LD50	Dermal LD50	Inhalation LC50	Draize Test	Other
Sodium hypochlorite 7681-52-9	= 8200 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	No data available	No data available	No data available

Chronic Toxicity None known

Carcinogenicity

Component	ACGIH	IARC	NTP	OSHA	Other
Sodium hypochlorite 7681-52-9	not applicable	Group 3	not applicable	not applicable	not applicable

12. ECOLOGICAL INFORMATION

Product Information

Toxicity to fish 0.6 mg/L Bluegill	Daphnia magna (Water flea) 1 mg/L 48 hr
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Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Crustacea	Partition coefficient
Sodium hypochlorite	No information available.	LC50 0.06 - 0.11 mg/L Pimephales promelas 96 h LC50 4.5 - 7.6 mg/L Pimephales promelas 96 h LC50 0.4 - 0.8 mg/L Lepomis macrochirus 96 h	No information available	0.033 - 0.044: 48 h Daphnia magna mg/L EC50 Static	N/A

		LC50 0.28 - 1 mg/L Lepomis macrochirus 96 h LC50 0.05 - 0.771 mg/L Oncorhynchus mykiss 96 h LC50 0.03 - 0.19 mg/L Oncorhynchus mykiss 96 h LC50 0.18 - 0.22 mg/L Oncorhynchus mykiss 96 h			
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Persistence and Degradability No information available.
Bioaccumulation No information available.
Mobility No information available.

13. DISPOSAL CONSIDERATIONS

Product Disposal Dispose of in accordance with local regulations.
Container Disposal Empty containers should be taken for local recycling, recovery, or waste disposal.

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name Hypochlorite Solution
Hazard Class 8
UN-No UN1791
Packing Group III
Reportable Quantity (RQ) Sodium Hypochlorite, RQ (kg) = 378.33
Description UN1791, Hypochlorite Solution, Class 8, P.G. III

TDG

Proper shipping name Hypochlorite Solution
Hazard Class 8
UN-No UN1791
Packing Group III
Description UN1791, Hypochlorite Solution, Class 8, P.G. III

ICAO

UN-No UN1791
Proper Shipping Name Hypochlorite Solution
Hazard Class 8
Packing Group III
Shipping Description UN1791, Hypochlorite Solution, Class 8, P.G. III

IATA

UN-No UN1791
Proper Shipping Name Hypochlorite Solution
Hazard Class 8
Packing Group III
Shipping Description UN1791, Hypochlorite Solution, Class 8, P.G. III

IMDG/IMO

Proper Shipping Name Hypochlorite Solution
Hazard Class 8
UN-No UN1791
Packing Group III
Description UN1791, Hypochlorite Solution, Class 8, P.G. III

15. REGULATORY INFORMATION

Inventories

TSCA Complies
DSL Complies
U.S. Federal Regulations
FIFRA
None

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Chronic Health Hazard	Fire Hazard	Sudden Release of Pressure Hazard	Reactive Hazard
Yes	No	No	No	Yes

CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
Sodium hypochlorite	100 lb	Not applicable

16. OTHER INFORMATION

Prepared By Adrienne McKee
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Reason for Revision No information available.
Glossary No information available.
List of References. No information available.

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