



SAFETY DATA SHEET

Creation Date 15-Feb-2011

Revision Date 19-Jan-2018

Revision Number 3

May cause respiratory irritation
Fatal if inhaled
Toxic if swallowed or in contact with skin



Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Wear protective gloves/protective clothing/eye protection/face protection
Do not breathe dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Wear respiratory protection

Response

Immediately call a POISON CENTER or doctor/physician

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Skin

Wash contaminated clothing before reuse
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Ingestion

Rinse mouth
Do NOT induce vomiting

Storage

Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.
Ingestion	Do NOT induce vomiting. Call a physician or poison control center immediately.
Most important symptoms and effects	Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation
Notes to Physician	Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media CO₂, dry chemical, dry sand, alcohol-re(n) Tj 100 0 Td(g) Tj 100 0 Td90 0 Td()2 0 Td(a90 0 Td(a) Tj

immediate medical assistance. Do not breathe (dust, vapor, mist, gas). Avoid dust formation.

Storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Corrosives area.
Store u

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Hygroscopic.
Conditions to Avoid	Incompatible products. Excess heat. Avoid dust formation. Exposure to moist air or water.
Incompatible Materials	Strong oxidizing agents, Strong bases, Strong reducing agents
Hazardous Decomposition Products	Carbon monoxide (CO), Carbon dioxide (CO ₂), Hydrogen chloride gas
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Chloroacetic acid	LD50 = 55 mg/kg (Rat)	LD50 = 250 mg/kg (Rabbit)	LC50 = 180 mg/m ³ (Rat) 4 h

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation	Causes burns by all exposure routes														
Sensitization	No information available														
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.														
<table> <thead> <tr> <th>Component</th> <th>CAS-No</th> <th>IARC</th> <th>NTP</th> <th>ACGIH</th> <th>OSHA</th> <th>Mexico</th> </tr> </thead> <tbody> <tr> <td>Chloroacetic acid</td> <td>79-11-8</td> <td>Not listed</td> <td>Not listed</td> <td>Not listed</td> <td>Not listed</td> <td>Not listed</td> </tr> </tbody> </table>	Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico	Chloroacetic acid	79-11-8	Not listed	Not listed	Not listed	Not listed	Not listed	
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Chloroacetic acid	79-11-8	Not listed	Not listed	Not listed	Not listed	Not listed									
Mutagenic Effects	Not mutagenic in AMES Test														
Reproductive Effects	No information available.														
Developmental Effects	No information available.														
Teratogenicity	No information available.														
STOT - single exposure	Respiratory system														
STOT - repeated exposure	None known														
Aspiration hazard	No information available														

Symptoms / effects, both acute and delayed Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, sz3d(,) Tj (l) Tj 40 0 T60 0 d(t) Tj 5Td(n) Tdr Td(s) Tj 90 0 0 .- 0 T1e

Very toxic to aquatic organisms. The product contains following substances which are hazardous for the environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Chloroacetic acid	EC50: = 1.8 mg/L, 72h (Pseudokirchneriella subcapitata) EC50: = 0.025 mg/L, 72h (Desmodesmus subspicatus) EC50: = 0.028 mg/L, 48h (Desmodesmus subspicatus)	LC50: = 145 mg/L, 96h semi-static (Pimephales promelas)	Not listed	EC50: 71 - 85 mg/L, 48h Static (Daphnia magna) EC50: = 77 mg/L, 48h (Daphnia magna)

Persistence and Degradability	Persistence is unlikely
Bioaccumulation/ Accumulation	No information available.
Mobility	. Will likely be mobile in the environment due to its water solubility.

Component	log Pow
Chloroacetic acid	0.2

13. Disposal considerations

Waste Disposal Methods	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.
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14. Transport information

DOT	
UN-No	UN1751
Proper Shipping Name	CHLOROACETIC ACID, SOLID
Hazard Class	6.1
Subsidiary Hazard Class	8
Packing Group	II
TDG	
UN-No	UN1751
Proper Shipping Name	CHLOROACETIC ACID, SOLID
Hazard Class	6.1
Subsidiary Hazard Class	8
Packing Group	II
IATA	
UN-No	UN1751
Proper Shipping Name	CHLOROACETIC ACID, SOLID
Hazard Class	6.1
Subsidiary Hazard Class	8
Packing Group	II
IMDG/IMO	
UN-No	UN1751
Proper Shipping Name	CHLOROACETIC ACID, SOLID
Hazard Class	6.1
Subsidiary Hazard Class	8
Packing Group	II

15. Regulatory information

United States of America Inventory

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
Chloroacetic acid	79-11-8	X	ACTIVE	-

16. Other information

Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date	15-Feb-2011
Revision Date	19-Jan-2018
Print Date	19-Jan-2018
Revision Summary	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

The information provided herein is for informational purposes only and does not constitute a contract or any other legal agreement.