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# Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Reviewed on 09/25/18



### Issue date 06/11/15

### dentification

- · Product identifier
- Trade name: Monochloroacetic Acid Solution
- · Relevant identified uses of the substance or mixture and uses advised against
- No further relevant information available.
- · Product description Monochloroacetic Acid Solution
- · Details of the supplier of the safety data sheet

· Manufacturer/Supplier: Dermatologic Lab & Supply, Inc. 608 13th Ave. Council Bluffs, IA USA 51501-6401 Voice: (800) 831-6273 or (712) 323-3269 Fax: (800) 320-9612 or (712) 323-1156 www.delasco.com

· Emergency telephone number: Chemtrec 800-424-9300

### Hazard(s) identification

### Classification of the substance or mixture



GHS06 Skull and crossbones

Acute Tox. 3 H311 Toxic in contact with skin.

Acute Tox. 3 H331 Toxic if inhaled.



**GHS05** Corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

**GHS09** Environment

Aquatic Acute 1H400Very toxic to aquatic life.



Acute Tox. 4 H302Harmful if swallowed.

. Label elements

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### Trade name: Monochloroacetic Acid Solution

- · **GHS** *label elements* The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms



GHS05 GHS06 GHS09

- · Signal word Danger
- *Hazard-determining components of labeling:* Chloroacetic acid
- · Hazard statements
- Harmful if swallowed.

Toxic in contact with skin or if inhaled. Causes severe skin burns and eye damage. Very

toxic to aquatic life.

### Precautionary statements

Do not breathe dusts or mists.

Avoid breathing dust/fume/gas/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

Wear protective gloves / protective clothing.

Wear eye protection / face protection.

Avoid release to the environment.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

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

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a poison center/doctor.

If swallowed: Call a poison center/doctor if you feel unwell.

Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).

Call a poison center/doctor.

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

Wash contaminated clothing before reuse.

If swallowed: Rinse mouth. Do NOT induce vomiting.

If on skin: Wash with plenty of water.

Collect spillage.

Take off immediately all contaminated clothing and wash it before reuse.

Store locked up.

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

Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system: NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

• NFPA ratings (scale 0 - 4)

Health = 3 Fire = 1 Reactivity = 0

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### Trade name: Monochloroacetic Acid Solution



HEALTH

REACTIVITY 0

FIRE

3

1

HMIS-ratings (scale 0 - 4)

Health = 3 Fire = 1 Reactivity = 0

· Hazard(s) not otherwise classified (HNOC): None known

3 Composition/information on ingredients

· Description: Mixture of substances listed below with nonhazardous additions.

<ul> <li>Dangerous Compon</li> </ul>	ents:	
CAS: 79-11-8	Chloroacetic acid	25-50%
RTECS: AF 8575000	♦ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; ♦ Skin	
	Corr. 1B, H314; Aquatic Acute 1, H400	

### · Description of first aid measures

### General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Remove breathing apparatus only after contaminated clothing have been completely removed. In case of irregular breathing or respiratory arrest provide artificial respiration.

### • After inhalation:

Get medical attention immediately. Move person to fresh air. If it is expected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. In case of unconsciousness, place patient securely on side position for transportation.

### · After skin contact:

Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice. ·

*After eye contact:* Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention.

### · After swallowing:

Do not induce vomiting without medical advice. Drink copious amounts of water and provide fresh air. Immediately call a doctor.

- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed: No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No

further relevant information available.

### \* 5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters Use water spray to cool unopened containers.
- · Protective equipment:

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

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#### \* 6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation Avoid contact with skin, eyes and clothing. Keep people at a distance and stay upwind. Keep away from ignition sources Treat any fumes as toxic. Do not inhale gases / fumes /aerosols Wear protective equipment. Keep unprotected persons away. • Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system. Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water. Methods and material for containment and cleaning up: Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent. Dispose contaminated material as waste according to section 13. Ensure adequate ventilation. Dispose of the collected material according to regulations. · Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

### \* 7 Handling and storage

### · Handling:

### · Precautions for safe handling

Keep away from heat and direct sunlight.

Avoid contact with skin, eyes and clothing

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care. Prevent

formation of aerosols.

· Information about protection against explosions and fires: Keep protective respiratory device available.

· Conditions for safe storage, including any incompatibilities Store away from

strong bases, strong oxidizing agents and strong reducing agents.

- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep receptacle tightly sealed.
- · Specific end use(s) No further relevant information available.

### \* 8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see section 7.
- · Control parameters

All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94). Use mechanical (general) ventilation for storage areas. Use appropriate ventilation as required to keep Exposure Limits in Air below TLV & PEL limits.

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Trade name: Monochloroacetic Acid Solution

79-11-8	3 Chloroacetic acid
TLV	Long-term value: 2* mg/m³, 0.5* ppm
	Skin;*as inhalable fraction and vapor
WEEL	Long-term value: 0.5 ppm
	Skin

### · Exposure controls

- · Personal protective equipment:
- · General protective and hygienic measures:
- The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing and wash before reuse.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes. Avoid

contact with the eyes and skin.

### Breathing equipment:



Suitable respiratory protective device recommended.

### • Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Select glove material based on penetration times, rates of diffusion and degradation.

### · Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

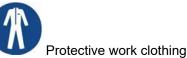
### Penetration time of glove material

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves. • *Eye protection:* 



Tightly sealed goggles

Body protection:



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Trade name: Monochloroacetic Acid Solution

Information on basic physical and	
General Information · Appearance: Form:	Liquid
Color:	Dark
Odor:	Pungent
Odor threshold:	Not determined.
pH-value:	< 1.0
Change in condition	
<i>Melting point/Melting range: Boiling point/Boiling range:</i>	Not determined. 100 °C (212 °F)
Flash point:	126 °C (259 °F)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	470 °C (878 °F)
Decomposition temperature:	Not determined.
Auto igniting:	Product is not self-igniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	0.0 Vol %
Upper:	0.0 Vol %
Vapor pressure @ 20 °C (68 °F):	23 hPa (17 mm Hg)
Density @ 20 °C (68 °F):	1.29 g/cm³ (10.765 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Fully miscible.
Partition coefficient (n-octanol/wate Viscosity:	er): Not determined.
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	0.0 %
Water:	50.0 %
Solids content:	50.0 %
Other information	No further relevant information available.

· Reactivity No further relevant information available.

· Chemical stability Stable under normal conditions.

· Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.

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Trade name: Monochloroacetic Acid Solution

- · Incompatible materials: Strong bases, strong acids and strong oxidizing agents.
- · Hazardous decomposition products: Carbon Oxides and Hydrochloric Acid gas.

### \* 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · LD/LC50 values that are relevant for classification:

# 79-11-8 Chloroacetic acid

Oral LD50 580 mg/kg (rat) Dermal LD50 305 mg/kg (rat)

Inhalative LC50/4 h 0.18 mg/l (rat)

### · Primary irritant effect:

- · on the skin: Strong caustic effect on skin and mucous membranes.
- on the eye:

Strong irritant with the danger of severe eye injury.

Corrosive effect. Causes

serious eye irritation.

### · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Toxic

Harmful

Corrosive

Irritant

Swallowing will lead to a corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach.

### · Carcinogenic categories

- · IARC (International Agency for Research on Cancer)
- Group 1 Carcinogenic to humans
- Group 2A Probably carcinogenic to humans
- Group 2B Possibly carcinogenic to humans
- Group 3 Not classifiable as to its carcinogenicity to humans Group
- 4 Probably not carcinogenic to humans

None of the ingredients are listed.

### · NTP (National Toxicology Program) Substance

None of the ingredients are listed.

### · OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients are listed.

### 12 Ecological information

• *Toxicity* The hazards for the aquatic environment are unknown.

· Aquatic toxicity:

is not listed.

Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.

- *Persistence and degradability* No further relevant information available.
- · Behavior in environmental systems:

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### Trade name: Monochloroacetic Acid Solution

- · *Bioaccumulative potential* No further relevant information available.
- · *Mobility in soil* No further relevant information available.
- Ecotoxical effects:
- Remark: Very toxic for fish
- · Additional ecological information:
- · General notes:

Do not allow product to reach ground water, water course or sewage system.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Danger to drinking water if even small quantities leak into the ground.

Poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

### Results of PBT and vPvB assessment

- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

### \* 13 Disposal considerations

### · Waste treatment methods ·

### **Recommendation:**

Observe all federal, state and local environmental regulations when disposing of this material. Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

### Uncleaned packagings:

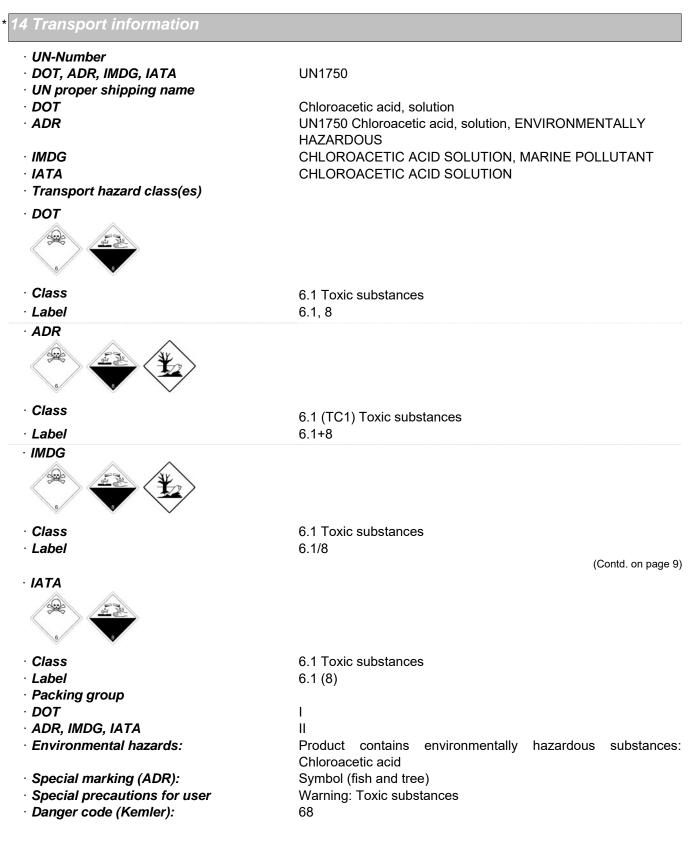
- · *Recommendation:* Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

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· EMS Number:	F-A,S-B
Segregation groups	Acids
<ul> <li>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</li> </ul>	Not applicable.
	Not applicable.
<ul> <li>Transport/Additional information:</li> <li>ADR</li> </ul>	
• Excepted quantities (EQ)	Code: E4
	Maximum net quantity per inner packaging: 1 ml
	Maximum net quantity per outer packaging: 500 ml
· IMDG · Limited quantities (LQ)	100 ml
• Excepted quantities (EQ)	Code: E4
	Maximum net quantity per inner packaging: 1 ml
	Maximum net quantity per outer packaging: 500 ml
• UN "Model Regulation":	UN1750, Chloroacetic acid, solution, ENVIRONMENTALLY
	HAZARDOUS, 6.1 (8), II
15 Regulatory information	
	ons/legislation specific for the substance or mixture
<ul> <li>Sara</li> <li>Section 355 (extremely hazardous substal</li> </ul>	nces).
79-11-8 Chloroacetic acid	1003).
Section 313 (Specific toxic chemical listin	as):
79-11-8 Chloroacetic acid	
TSCA (Toxic Substances Control Act):	
All ingredients are listed.	
· California Proposition 65	
Chemicals known to cause cancer:	
None of the ingredients are listed.	
· Chemicals known to cause reproductive t	oxicity for females:
None of the ingredients are listed.	
	(Contd. on page 10
· Chemicals known to cause reproductive t	oxicity for males:
None of the ingredients are listed.	
· Chemicals known to cause developmenta	l toxicity:
None of the ingredients are listed.	
· Carcinogenic categories	
• EPA (Environmental Protection Agency)	
None of the ingredients are listed.	
• TLV (Threshold Limit Value established by	y ACGIH)

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Trade name: Monochloroacetic Acid Solution

79-11-8 Chloroacetic acid

### · NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients are listed.

- · **GHS** *label elements* The product is classified and labeled according to the Globally Harmonized System (GHS).
- Hazard pictograms



- · Signal word Danger
- *Hazard-determining components of labeling:* Chloroacetic acid
- · Hazard statements

Harmful if swallowed.

Toxic in contact with skin or if inhaled. Causes severe skin burns and eye damage. Very toxic to aquatic life.

- Precautionary statements
- Do not breathe dusts or mists.

Avoid breathing dust/fume/gas/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

Wear protective gloves / protective clothing.

Wear eye protection / face protection.

Avoid release to the environment.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

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

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a poison center/doctor.

If swallowed: Call a poison center/doctor if you feel unwell.

Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).

Call a poison center/doctor.

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

Wash contaminated clothing before reuse.

If swallowed: Rinse mouth. Do NOT induce vomiting.

If on skin: Wash with plenty of water. Collect

spillage.

Take off immediately all contaminated clothing and wash it before reuse.

Store locked up.

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

Dispose of contents/container in accordance with local/regional/national/international regulations.

National regulations:

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### Trade name: Monochloroacetic Acid Solution

The product is subject t substances.	o be classified according with the latest version of the regulations on hazardo	ous
· State Right to Know		
CAS: 79-11-8 RTECS: AF 8575000	Chloroacetic acid	25-50%
	Corr. 1B, H314; Aquatic Acute 1, H400	
CAS: 7732-18-5	Water, distilled water, deionized water	25-50%
All ingredients are list	ed.	1

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### 6 Other information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

### · Date of preparation / last revision

#### 06/11/2015 / 09/24/18

#### · Abbreviations and acronyms:

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent Acute Tox. 3: Acute toxicity, Hazard Category 3 Acute Tox. 4: Acute toxicity, Hazard Category 4 Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1 Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1 \* \* Data compared to the previous version altered. SDS created by MSDS Authoring Services www.msdsauthoring.com +1-877-204-9106