SIGMA-ALDRICH

Material Safety Data Sheet

Version 3.0 Revision Date 08/19/2009 Print Date 04/09/2010

	NY IDENTIFICATION					
Product name	: Thioacetic	acid				
Product Number	: T30805					
Brand	: Aldrich					
Company	: Sigma-Aldrich Canada, Ltd 2149 Winston Park Drive OAKVILLE ON L6H 6J8 CANADA					
Telephone	: +19058299500					
Fax	: +190582992					
Emergency Phone #		: 800-424-9300				
OMPOSITION/INFORM	ATION ON INGREDIE	NTS				
Synonyms	: Thiacetic aci	d				
Formula	: C ₂ H ₄ OS					
Molecular Weight	: 76.12 g/mol					
	. 70.12 g/mor					
CAS-No.	EC-No.	Index-No.	Concentration			
Thioacetic acid						
507-09-5	208-063-8	-	-			
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Causes eye burns. Toxic if swallowed. Causes burns.

4. FIRST AID MEASURES

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Continue rinsing eyes during transport to hospital. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE-FIGHTING MEASURES

Flammable properties

Flash point

11 °C (52 °F) - closed cup

Ignition temperature no data available

Suitable extinguishing media

For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

Further information

Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods for cleaning up

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).

7. HANDLING AND STORAGE

Handling

Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

Storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in cool place.

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Recommended storage temperature: 2 - 8 °C

Handle and open container with care.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves.

Eye protection

Tightly fitting safety goggles. Faceshield (8-inch minimum).

Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	clear, liquid
Colour	light yellow
Odour	Stench.
Safety data	
рН	no data available
Melting point	no data available
Boiling point	88 - 91.5 °C (190 - 196.7 °F) - lit.
Flash point	11 °C (52 °F) - closed cup
Ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Density	1.065 g/mL at 25 °C (77 °F)
Water solubility	no data available
Partition coefficient: n-octanol/water	log Pow: 0.33

10. STABILITY AND REACTIVITY

Storage stability

Stable under recommended storage conditions.

Conditions to avoid Heat, flames and sparks.

Materials to avoid Oxidizing agents, Strong bases

Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Carbon oxides, Sulphur oxides

Hazardous reactions

Vapours may form explosive mixture with air.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

LD50 Oral - rat - 200 - 350 mg/kg

LC50 Dermal - rat - > 2,000 mg/kg

Irritation and corrosion

Skin - rabbit - Severe skin irritation

Eyes - rabbit - Severe eye irritation

Sensitisation

Chronic exposure

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Genotoxicity in vitro - Not mutagenic in Ames Test. Histidine reversion (Ames)

Signs and Symptoms of Exposure

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough, Shortness of breath, Headache, Nausea

Potential Health Effects

Inhalation	May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
Skin	May be harmful if absorbed through skin. Causes skin burns.
Eyes	Causes eye burns.
Ingestion	Toxic if swallowed. Causes burns.

Additional Information RTECS: AJ5600000

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

Biodegradability

and other aquatic

Ecotoxicity effects

Toxicity to daphnia EC50 - Daphnia magna (Water flea) - 2.1 mg/l - 48 h

Further information on ecology

Avoid release to the environment.

13. DISPOSAL CONSIDERATIONS

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

UN-Number: 2436 Class: 3 Proper shipping name: Thioacetic acid Marine pollutant: No Poison Inhalation Hazard: No	Packing group: II		
IMDG UN-Number: 2436 Class: 3 Proper shipping name: THIOACETIC ACID Marine pollutant: No	Packing group: II	EMS-No: F-E, S-D	
IATA UN-Number: 2436 Class: 3 Proper shipping name: Thioacetic acid	Packing group: II		
15. REGULATORY INFORMATION			
DSL Status All components of this product are on the C	Canadian DSL list.		
WHMIS Classification B2 Flammable Liquid D1B D2B E	- 	Flammable Liquid Toxic by ingestion Moderate eye irritant Corrosive	
16. OTHER INFORMATION			

Further information

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