

# Acetic acid, 2, 2'-thiobis- (cas 123-93-3) MSDS

#### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING 1.1 **Product identifiers** Product name 2,2 ' -Thiodiacetic acid T30007 Product Number ÷ Brand 123-93-3 CAS-No. 1.2 Relevant identified uses of the substance or mixture and uses advised against Identified uses : Laboratory chemicals, Manufacture of substances 2. HAZARDS IDENTIFICATION 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP] Skin corrosion (Category 1B) Classification according to EU Directives 67/548/EEC or 1999/45/EC Causes burns. 2.2 Label elements Labelling according Regulation (EC) No 1272/2008 [CLP] Pictogram Signal word Danger Hazard statement(s) H314 Causes severe skin burns and eye damage. Precautionary statement(s) P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. 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 POISON CENTER or doctor/ physician. Supplemental Hazard none Statements - T30007 According to European Directive 67/548/EEC as amended. Hazard symbol(s) R-phrase(s) R34 Causes burns. S-phrase(s) S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37/39 Wear suitable protective clothing, gloves and eye/face protection. S45 In case of accident or if you feel unwell, seek medical advice immediately

(show the label where possible).

#### 2.3 Other hazards - none

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 **Substances**

Synonyms	:	2,2 ' -Thio-bis(acetic acid) Dicarboxydimethyl sulfide
		Thiodiglycolic acid

Formula	:	C4H6O4S
Molecular Weight	:	150,15 g/mol
•		

EC-No.

# 4. FIRST AID MEASURES

# 4.1 Description of first aid measures

## **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

## 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

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.

## 4.2 Most important symptoms and effects, both acute and delayed

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

# **4.3** Indication of immediate medical attention and special treatment needed no data available

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# 5. FIRE-FIGHTING MEASURES

# 5.1 Extinguishing media

## **Suitable extinguishing media** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture Carbon oxides, Sulphur oxides

#### **5.3 Precautions for fire-fighters** Wear self contained breathing apparatus for fire fighting if necessary.

# 5.4 Further information no data available

# 6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
- 6.2 Environmental precautions Do not let product enter drains.
- 6.3 Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
- 6.4 Reference to other sections For disposal see section 13.

7. HANDLING AND STORAGE

# 7.1 Precautions for safe handling

# Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

# 7.3 Specific end uses

# no data available

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# 8.1 Control parameters

# Components with workplace control parameters

## 8.2 Exposure controls

## Appropriate engineering controls

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

# Personal protective equipment

### Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

# **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of

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contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

#### **Body Protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) 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).

# 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

a)	Appearance	Form: crystalline Colour: beige		
b)	Odour	no data available		
c)	Odour Threshold	no data available		
d)	рН	no data available		
e)	Melting/freezing point	Melting point/range: 128 - 131 °C - lit.		
f)	Initial boiling point and boiling range	no data available		
g)	Flash point	no data available		
h)	Evaporation rate	no data available		
i)	Flammability (solid, gas) no data available			
j)	Upper/lower flammability or explosive limits	no data available		
k)	Vapour pressure	no data available		
I)	Vapour density	no data available		
m)	Relative density	no data available		
n)	Water solubility	no data available		
o)	Partition coefficient: n- octanol/water	no data available		
p)	Autoignition temperature	no data available		
q)	Decomposition temperature	no data available		
r)	Viscosity	no data available		
s)	Explosive properties	no data available		
t)	Oxidizing properties	no data available		
Other safety information				

no data available

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#### 10. STABILITY AND REACTIVITY

- 10.1 Reactivity no data available
- 10.2 Chemical stability

no data available

- 10.3 Possibility of hazardous reactions no data available
- 10.4 Conditions to avoid no data available
- 10.5 Incompatible materials Strong oxidizing agents, Strong bases
- 10.6 Hazardous decomposition products Other decomposition products - no data available

#### TOXICOLOGICAL INFORMATION 11.

11.1 Information on toxicological effects

#### Acute toxicity

LD50 Intraperitoneal - mouse - 300 mg/kg

Skin corrosion/irritation no data available

Serious eye damage/eye irritation no data available

Respiratory or skin sensitization no data available

#### Germ cell mutagenicity

no data available

#### Carcinogenicity

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.

# **Reproductive toxicity**

no data available

# Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure no data available

#### Aspiration hazard no data available

### Potential health effects

# Inhalati

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

#### 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

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**Additional Information** RTECS: AJ6475000

#### 12. **ECOLOGICAL INFORMATION**

## 12.1 Toxicity

no data available

- 12.2 Persistence and degradability no data available
- 12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil no data available

12.5 Results of PBT and vPvB assessment no data available

12.6 Other adverse effects no data available

#### 13. **DISPOSAL CONSIDERATIONS**

# 13.1 Waste treatment methods

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

### Contaminated packaging

Dispose of as unused product

	Dispose of as unused product.					
14.	TRANSPORT INFORMATION					
14.1	<b>UN-Number</b> ADR/RID: 3261		IMDG: 3261	IATA: 3261		
14.2	UN proper shipping nameADR/RID:CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (Thiodi(acetic acid))IMDG:CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (Thiodi(acetic acid))IATA:Corrosive solid, acidic, organic, n.o.s. (Thiodi(acetic acid))					
14.3	Transport hazard class(es) ADR/RID: 8		IMDG: 8	IATA: 8		
14.4	Packaging group ADR/RID: II		IMDG: II	IATA: II		
14.5	Environmental hazards ADR/RID: no		IMDG Marine pollutant: no	IATA: no		
14.6	Special pro	ecautions for users ailable				
15.	REGULATORY INFORMATION					

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture no data available
- 15.2 Chemical Safety Assessment no data available

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#### **OTHER INFORMATION** 16.

#### **Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information this document is based on the resent state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. guidechem shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.