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SAFETY DATA SHEET

THIOACETIC ACID

SECTION 1: Identification of the substance/mixture and of the company/undertaking Trade name:

1.1 Product identifier:	
CAS Number:	507-09-5
EC number:	208-758-8
1.2 SYNONYMS:	• Acetic thiol • Methanethiol acetic acid • Acetyl mercaptan • Thioethanoic acid • Methyl mercaptoacetate

SECTION 2: Hazards identification:

2.1 Classification of the substance or mixture:	Classification according to Regulation (EC) No 1272/2008 The substance is classified according to the CLP regulation.
2.2 Label elements:	Labelling according to Regulation (EC) No 1272/2008 Flammable liquids (Category 2) Acute Oral Toxicity (Category 3) Skin Corrosion/Irritation (Category 1) Serious Eye Damage/Eye Irritation (Category 1) Skin Sensitization (Category 1)
Hazard Pictograms:	
Signal Word:	Danger
Hazard statements:	**H225:** Highly flammable liquid and vapor **H301:** Toxic if swallowed **H317:** May cause an allergic skin reaction **H314:** Causes severe skin burns and eye damage

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Precautionary Statements:	**P101:** If medical advice is needed, have product container or label at hand. **P102:** Keep out of reach of children. **P260:** Do not breathe dust/fume/ gas/mist/vapors/spray. **P264:** Wash hands thoroughly after handling. **P270:** Do not eat, drink, or smoke when using this product. **P280:** Wear protective gloves, protective clothing, and eye/face protection. **P301+P330+P331:** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. **P303+P361+P353:** IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. **P304+P340:** IF INHALED: Remove person to fresh air and keep comfortable for breathing. **P305+P351+P338:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. **P403+P233:** Store in a well-ventilated place. Keep container tightly closed. **P405:** Store locked up. **P501:** Dispose of contents/container to hazardous or special waste collection point.
2.3 Other hazards:	
Inhalation:	can cause respiratory irritation, coughing, and potentially more severe effects like shortness of breath or damage to the respiratory tract.

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Ingestion:	can cause nausea, vomiting, abdominal pain, and potentially severe damage to the gastrointestinal tract.
Skin Contact:	can cause irritation, burns, and damage to the skin, leading to redness, blistering, or tissue necrosis.
Eye contact:	can cause severe irritation, redness, pain, and potential damage to the cornea, leading to long-term vision impairment.
Chronic Exposure:	may lead to respiratory issues, skin damage, or long-term irritation, and could potentially result in liver or kidney damage if exposure is prolonged or occurs in high concentrations.
Aggravation of pre-existing conditions:	may aggravate pre-existing conditions such as respiratory disorders (e.g., asthma or chronic bronchitis), skin conditions (e.g., dermatitis), or eye disorders, due to its irritating and corrosive nature.

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation:	Substances
CAS No:	Description: 507-09-5 THIOACETIC ACID
Identification number(s):	EC number: 208-758-8

SECTION 4: First aid measures

4.1 Description of first aid measures	
General information:	

After inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
After skin contact:	Remove contaminated clothing. Wash with soap and water. Consult a physician.
After eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. consult a physician.
After swallowing:	Rinse mouth with water. Immediately after ingestion. Never give anything by mouth to an unconscious person. Do not induce vomiting. Consult a physician.
4.2 Most important symptoms and effects, both acute and delayed:	Vomiting, methaemoglobinaemia, weakness, abdominal cramps, diarrhea, headache, Danger of methaemoglobin formation after ingestion.
4.3 Indication of any immediate medical attention and special treatment needed:	Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media:	Carbon dioxide. Water spray. Alcohol-resistant foam.
5.2 Special hazards arising from the substance or mixture:	Can release toxic fumes when heated.
5.3 Advice for firefighters:	Wear fully protective suit, safety glasses and respiratory device. Cool tanks/drums with water spray/remove them into safety.
5.4 further information:	no data available

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:	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. Avoid dust accumulation. Seek medical attention.
6.2 Environmental precautions:	Do not enter this chemical into drains.
6.3 Methods and material for containment and cleaning up:	Take up spill into absorbent material, e.g.: sand, earth, vermiculite, powdered limestone. Scoop absorbed substance into closing containers. Spill must not return in its original container. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:	For use in are with adequate ventilation. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material Do not use in confined spaces. Electrostatic discharge protection. Minimize dust generation and accumulation. Avoid ingestion and inhalation.
7.2 Conditions for safe storage, including any incompatibilities:	Store in original containers. Keep containers securely sealed Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers.

	Protect containers against physical damage and check regularly for leaks. Store in a dry and dark area. Do not handle in flammable atmospheres.
Requirements to be met by storerooms and receptacles:	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.
7.3 Specific end uses:	no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters	
Additional information about design of technical facilities:	A system of local and general exhaust is recommended.
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:	Dust respirator, protective masks, wearing anti chemical gloves, rubber gloves, etc.
General protective and hygienic measures:	Eyes, body and hand protection, maintain indoor air unobstructed. Wear protective equipment.
	Respiratory protection: Required.
Protection of hands:	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 contaminated gloves after use in accordance with applicable laws. Wash and dry hands.
	Eye protection: Required

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Protection of Body:	Complete suit protecting against chemicals, Flame retardant antistatic protective clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties General Information	
Appearance: Form:	Liquid
Colour:	Light yellow
Odour:	Strong, pungent
pH-value:	2
Melting point/Melting range:	-58°C
Boiling point/Boiling range:	113°C
Flammability (solid, gaseous):	Flammable liquid and vapour
Ignition temperature:	385°C
Decomposition temperature:	Not determined
Self-igniting:	None
Flash point:	51°C
Danger of explosion:	Yes
Explosion limits: Lower:	No data available
Explosion limits: Upper:	No data available
Vapour pressure:	8.5 mmHg at 25°C
Density at 20 °C:	1.17 g/cm^3
Relative density:	1.17
Vapour density:	3.5
Evaporation rate:	Not determined
Solubility in / Miscibility with- ·water at 20 °C:	Highly soluble
Partition coefficient:(n-octanol/water)	0.67
Viscosity:	No data available

SECTION 10: Stability and reactivity

10.1 Reactivity	May undergo chemical reaction involving its thiol group.

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10.2 Chemical stability	This chemical is stable under storage conditions.
10.3 Possibility of hazardous reactions	Can react violently with strong oxidizers, acids, or bases.
10.4 Conditions to avoid	Heat, Open flames or sparks, Shock or friction, Excessive pressure.
10.5 Incompatible materials	Strong oxidizing agents, Strong acids, Strong bases, Metals, Water.
10.6 Hazardous decomposition products	hydrogen sulphide, carbon monoxide, carbon dioxide.

SECTION 11: Toxicological information

11.1 Information on toxicological effects	
Acute Toxicity:	**LD50** (Oral, Rat): 350 mg/kg **LD50** (Dermal, Rabbit): no data available **LC50** (Inhalation Rat): no data available.
Skin corrosion/Irritation:	Causes serious skin burns.
Serious eye damage/irritation:	Causes serious eye irritation.
Respiratory damage/irritation:	No data available
Ingestion:	No data available
Germ cell mutagenicity:	No data available
Carcinogenicity:	No data available
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
Signs and Symptoms of Exposure:	Refer section 2.3
11.2 Additional toxicological information	
Biodegradability:	Readily Biodegradable

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SECTION 12: Ecological information

12.1 Toxicity **Aquatic toxicity:**	LC50(fish): no data available EC50(daphnia): 2.1 mg/l (48 hr) ErC50(algae):no data available
12.2 Persistence and degradability:	Readily Biodegradable
12.3 Bioaccumulative potential:	low bioaccumulative
12.4 Mobility in soil:	High mobility
12.5 Other adverse effects:	No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Uncleaned packaging **Recommendation:**	dispose of in accordance with local hazardous waste regulations
Recommended cleansing agents:	Water, Dilute Sodium bicarbonate, diluted sodium hydroxide, Commercial neutralizing agents.

SECTION 14: Transport information

14.1 UN-Number · ADR, ADN, IMDG, IATA:	2436
14.2 UN proper shipping name · ADR, ADN, IMDG, IATA:	THIOACETIC ACID
14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA :	3
14.4 Packing group · ADR, IMDG, IATA:	2
14.5 Environmental hazards:	None
14.6 Special precautions for user:	Handle responsibly.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture **Directive 2012/18/EU**	Directive 2012/18/EU, under that this substance is classified in listed substance as flammable substance.

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Named dangerous substances:	This substance is not listed in the annex 1 to the directive.
15.2 Chemical safety assessment:	Chemical assessment has not been carried out

SECTION 16: Other information

The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.