SAFETY DATA SHEET



3-MERCAPTOPROPIONIC ACID

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

1.1 Product identifier:	
CAS Number:	107-96-0
EC number:	203-537-0
1.2 SYNONYMS:	3-MPA3-Thiopropionic acid
	 3-Sulfanylpentanoic acid 3-Hydroxypropane-1-thiol

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: Hazard Pictograms:	Labelling according to Regulation (EC) No 1272/2008 Corrosive to Metals (Category 1) Acute toxicity, Oral (Category 3) Acute toxicity, Inhalation (Category 4) Skin corrosion (Category 1B) Serious eye damage (Category 1)
Tiazara Fictograms.	
Signal Word:	Danger
Hazard statements:	H290: May be corrosive to metals. H301: Toxic if swallowed. H314: Causes severe skin burns and eye damage. H332: Harmful if inhaled.
Precautionary Statements:	P234: Keep only in original packaging.



	P261: Avoid breathing mist or vapors. P280: Wear protective gloves/ protective clothing/ eye protection/ face protection. P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P304 + P340 + P310: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor. P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P391: Collect spillage. P405: Store locked up. P501: Dispose of contents/ container to an approved waste disposal plant.
2.3 Other hazards: Inhalation:	can cause irritation to the respiratory tract, leading to coughing, shortness of breath, and potentially more severe respiratory issues.
Ingestion: Skin Contact:	can cause gastrointestinal irritation, leading to symptoms such as nausea, vomiting, abdominal pain, and diarrhea. can cause irritation, redness, and possible allergic reactions, including
Eye contact:	rash or itching. can cause irritation, redness, tearing, and possible damage to the eye tissue.
Chronic Exposure:	may lead to prolonged irritation of the skin, eyes, and respiratory



	system, and could potentially cause
	damage to organs if exposure is
	extensive and repeated.
Aggravation of pre-existing	may aggravate pre-existing
conditions:	respiratory conditions such as
	asthma, or skin conditions like
-51	dermatitis, due to its irritating
LOIL	properties.

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation:	Substances
CAS No:	Description: 109-96-7
	3-MERCAPTOPROPIONIC ACID
Identification number(s):	EC number: 203-537-0

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 immediately .Wash with plenty of 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. If conscious, make victim drink two glasses at most immediately. 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:	Acute exposure to 3- mercaptopropionic acid can cause irritation of the skin, eyes, and respiratory tract, while delayed effects may include prolonged skin
FOTD	sensitization and respiratory issues
	with repeated exposure.
4.3 Indication of any immediate medical attention and special	Treat symptomatically.
treatment needed:	

SECTION 5: Firefighting measures

5.1 Extinguishing media:	Carbon dioxide. Water spray.
	Alcohol-resistant foam.
5.2 Special hazards arising from	Carbon oxides, sulfur oxides.
the substance or mixture:	
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

SECTION 6: Accidental release measures

6.1 Personal precautions,	Use personal protective
protective equipment and	equipment.
emergency procedures:	Avoid breathing vapors, mist or
	gas. Ensure adequate ventilation.
	Remove all sources of ignition.
VOUD OUEMI	Evacuate personnel to safe areas.
VIIIIR I: HF MI	Beware of vapours accumulating
TOOH OHLWH	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	Take up spill into absorbent
containment and cleaning up:	material, e.g.: sand, earth,
	vermiculite, powdered limestone.
	Scoop absorbed substance into
	closing containers. Spill must not
- FOTE	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.
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	A system of local and general
design of technical facilities:	exhaust is recommended.
8.2 Exposure controls	
Appropriate engineering controls	Handle in accordance with good
	industrial hygiene and safety
E911	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	Eyes, body and hand protection,
measures:	maintain indoor air unobstructed.
	Wear protective equipment.
	Respiratory protection: Required.
Protection of hands:	Handle with gloves. Gloves must be
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Protection of hands: Protection of Body:	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.
	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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties General Information	GAL PARINEF
Appearance: Form:	Liquid
Colour:	Colourless to pale yellow
Odour:	Sulphur like odor
pH-value:	4
Melting point/Melting range:	-50°C



Boiling point/Boiling range:	168°C
Flammability (solid, gaseous):	Flammable
Ignition temperature:	220°C
Decomposition temperature:	Not determined
Self-igniting:	None
Flash point:	108°C
Danger of explosion:	None
Explosion limits: Lower:	0.6%
Explosion limits: Upper:	7%
Vapour pressure:	0.13 mmHg at 20°C.
Density at 20 °C:	1.22g/cm ³
Relative density:	1.22
Vapour density:	Not determined
Evaporation rate:	Not determined
Solubility in / Miscibility with-	Readily Soluble
·water at 20 °C:	
Partition coefficient:(n-	0.25
octanol/water)	
Viscosity:	1.4cP at 20°C

SECTION 10: Stability and reactivity

10.1 Reactivity	Can react with strong oxidizers to
	form hazardous byproducts due to
	presence of thiol group.
10.2 Chemical stability	This chemical is stable under
	storage conditions.
10.3 Possibility of hazardous	Can react with certain oxidizers,
reactions	acids and bases to form flammable
	hydrogen sulphide gas.
10.4 Conditions to avoid	High temperatures, excessive heat,
VOUD CHEMI	strong oxidizers
10.5 Incompatible materials	Strong oxidizers, acids and bases,
	halogens
10.6 Hazardous decomposition	Hydrogen sulphide, sulphur oxides.
products	·



SECTION 11: Toxicological information

11.1 Information on toxicological effects	
Acute Toxicity:	LD50 (Oral, Rat): 96 mg/kg LD50 (Dermal, Rabbit): no data available LC50 (Inhalation Rat): no data available
Skin corrosion/Irritation:	Causes serious skin corrosion
Serious eye damage/irritation:	Causes serious eye damage
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 -	No data available
repeated exposure:	
Aspiration hazard:	No data available
Signs and Symptoms of Exposure:	Refer section 2.3
11.2 Additional toxicological	
information	
Biodegradability:	Readily Biodegradable

SECTION 12: Ecological information

12.1 Toxicity	LC50(fish): 98 mg/l (96 hr)
Aquatic toxicity:	EC50(daphnia): 9 mg/l (48 hr)
	ErC50(algae): 26 mg/l (72hr)
12.2 Persistence and	Readily Biodegradable
degradability:	
12.3 Bioaccumulative potential:	Not 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	dispose of in accordance with local
Recommendation:	hazardous waste regulations
Recommended cleansing agents:	Water, sodium bicarbonate, soap
	and water, isopropyl alcohol,
ECTI	acetone, commercial degreasers.

SECTION 14: Transport information

14.1 UN-Number · ADR, ADN, IMDG, IATA:	2922
14.2 UN proper shipping name · ADR, ADN, IMDG, IATA:	3-MERCAPTOPROPIONIC ACID
14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA :	8
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	Directive 2012/18/EU, under that
environmental	this substance is classified in listed
regulations/legislation specific	substance as toxic substances
for the substance or mixture	
Directive 2012/18/EU	
Named dangerous substances:	This substance is listed in the part 1
	annex 1 to the directive.
15.2 Chemical safety assessment:	Chemical assessment has not been
VOUD OUEMI	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 limitations



of our knowledge, this document is only for reference. Users should make their independent judgment 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.

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