Multichem Specialities Pvt. Ltd.
1215, Dalamal Tower,
Nariman Point, Mumbai 400021, India
T: +91 2243432121
E: multichem@multichemindia.com
www.multichemindia.com

ESTD.1976 MULTI CHEM YOUR CHEMICAL PARTNER

SAFETY DATA SHEET

3-AMINO-1-PROPANOL

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

1.1 Product identifier:	
CAS Number:-	156-87-6
EC number:	205-864-4
1.2 SYNONYMS:	• 3-Aminopropanol • 1-Amino-3-propanol • Propan-3-amino-1-ol

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 Acute toxicity, oral (Category 4) Skin corrosion, (Category 1B) Serious eye damage (Category 1)
Hazard Pictograms:	
Signal Word:	Danger
Hazard statements:	**H302:** Harmful if swallowed. **H314:** Causes severe skin burns and eye damage.
Precautionary Statements:	**P280:** Wear protective gloves/ protective clothing/ eye protection/ face protection. **P301 + P312:** IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. **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. **P363:** Wash contaminated clothing before reuse. **P405:** Store locked up. **P501:** Dispose of contents/ container to an approved waste disposal plant.
2.3 Other hazards:	
Inhalation:	may cause respiratory irritation, coughing, and shortness of breath, and prolonged exposure could lead to more severe respiratory effects.
Ingestion:	may cause nausea, vomiting, abdominal pain, and potentially more severe effects on the gastrointestinal system.
Skin Contact:	may cause irritation, redness, and potential allergic reactions, especially with prolonged exposure.
Eye contact:	may cause irritation, redness, pain, and watering of the eyes.
Chronic Exposure:	may lead to respiratory issues, skin sensitization, and potential damage to the liver or kidneys, depending on the duration and level of exposure.
Aggravation of pre-existing conditions:	Aggravation of pre-existing conditions such as respiratory disorders, skin conditions (like dermatitis), or liver and kidney diseases may occur with chronic exposure to 3-amino-1-propanol.

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SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation:	Substances
CAS No:	Description: 156-87-6 3-AMINO-1-PROPANOL
Identification number(s):	EC number: 205-864-4

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 soap and water. Consult a physician.
After eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. Remove any contact lenses if any. 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 symptoms include irritation of the eyes, skin, and respiratory tract, while delayed effects may involve chronic respiratory issues, skin sensitization, and potential liver or kidney damage with prolonged exposure.
4.3 Indication of any immediate medical attention and special treatment needed:	Treat symptomatically.

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SECTION 5: Firefighting measures

5.1 Extinguishing media:	Water spray, Carbon dioxide. Alcohol-resistant foam.
5.2 Special hazards arising from the substance or mixture:	Carbon oxides, nitrogen oxides.
5.3 Advice for firefighters:	Wear fully protective suit, safety glasses and respiratory device.
5.4 further information:	no data available

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 the excess spill with water. Wash clothing and equipment after handling.

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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.

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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
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:	Viscous Liquid
Colour:	Colourless
Odour:	Slight ammonia like
pH-value:	11
Melting point/Melting range:	-20°C
Boiling point/Boiling range:	165°C
Flammability (solid, gaseous):	Flammable
Ignition temperature:	380°C
Decomposition temperature:	No data available
Self-igniting:	None
Flash point:	70°C
Danger of explosion:	None

Explosion limits: Lower:	No data available
Explosion limits: Upper:	No data available
Vapour pressure:	0.2 hPa at 20°C
Density at 20 °C:	1.04 g/cm^3
Relative density:	1.04
Vapour density:	No data available
Evaporation rate:	No data available
Solubility in / Miscibility with-·water at 20 °C:	Completely Soluble
Partition coefficient:(n-octanol/water)	-0.54
Viscosity:	Kinematic: 29,9 mm^2/s at 23 °C

SECTION 10: Stability and reactivity

10.1 Reactivity	Stable at room temperature
10.2 Chemical stability	This chemical is stable under storage conditions.
10.3 Possibility of hazardous reactions	Can reacts with strong oxidizers and acids to cause exothermic reactions.
10.4 Conditions to avoid	High temperatures, Heat, flames
10.5 Incompatible materials	Strong oxidizing agents, strong acids, reactive metals.
10.6 Hazardous decomposition products	Ammonia, nitrogen containing compounds.

SECTION 11: Toxicological information

11.1 Information on toxicological effects	
Acute Toxicity:	**LD50** (Oral, Rat): 1.348 mg/kg **LD50** (Dermal, Rabbit): 2.000 mg/kg **LC50** (Inhalation Rat): 4.1 mg/l (4 hr)
Skin corrosion/Irritation:	Causes serious skin irritation.
Serious eye damage/irritation:	Causes serious eye damage.
Respiratory damage/irritation:	No data available

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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

SECTION 12: Ecological information

12.1 Toxicity **Aquatic toxicity:**	LC50(fish): 215 mg/l (96hr) EC50(daphnia): 500 mg/l (48 hr) ErC50(algae): 97.6 mg/l (72hr)
12.2 Persistence and degradability:	Readily Biodegradable
12.3 Bioaccumulative potential:	Low bioaccumulative
12.4 Mobility in soil:	moderate 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, Mild detergents, Isopropyl alcohol, acetone.

SECTION 14: Transport information

14.1 UN-Number · ADR, ADN, IMDG, IATA:	2735
14.2 UN proper shipping name · ADR, ADN, IMDG, IATA:	3-AMINO-1-PROPANOL

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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 environmental regulations/legislation specific for the substance or mixture Directive 2012/18/EU	Directive 2012/18/EU, under that this substance is not classified in listed substance.
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.