



**Material Safety Data Sheet**  
**2-Acetylthiophene**

**SECTION 1.1 – PRODUCT IDENTIFICATION**

**Product name** : **2-Acetylthiophene**  
**Molecular formula** : **C6 H6OS**  
**Molecular weight** : **126.17**  
**CAS no.** : **88-15-3**

**SECTION: 1.2 – COMPANY IDENTIFICATION**

**Company Name:** Indenta Chemicals (India) Pvt. Ltd.  
**Address:** 201, Adamji Building, 413, Narshi Natha Street, Mumbai -400 009. (India)  
**Telephone #:** +91-22-23449820 / 23411655  
**Fax #:** +91-22-23432060

**SECTION 2: HAZARD IDENTIFICATION**

**Classification**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids	Category 4
Acute oral toxicity	Category 3
Acute dermal toxicity	Category 3
Acute Inhalation Toxicity - Vapors	Category 3

**Label Elements**

**Signal Word**

Danger

**Hazard Statements**

Combustible liquid  
Toxic if swallowed  
Toxic in contact with skin  
Toxic if inhaled

**Precautionary Statements**

Prevention  
Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product  
 Wear protective gloves/protective clothing/eye protection/face protection  
 Avoid breathing dust/fume/gas/mist/vapors/spray  
 Use only outdoors or in a well-ventilated area  
 Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
 Keep cool

**Inhalation**

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician

**Skin**

IF ON SKIN: Wash with plenty of soap and water Call a POISON CENTER or doctor/physician if you feel unwell  
 Remove/Take off immediately all contaminated clothing Wash contaminated clothing before reuse

**Ingestion**

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Rinse mouth

**Fire**

In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction

**Storage**

Store locked up  
 Store in a well-ventilated place. Keep container tightly closed

**Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

None identified

**SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

Component	CAS-No	Weight %
Ethanone, 1-(2-thienyl)-	88-15-3	98

**SECTION 4: FIRST AID MEASURES**

**Eye Contact:** Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

**Skin Contact:** Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Immediate medical attention is required.

**Inhalation:** Remove from exposure, lie down. Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Immediate medical attention is required.

**Ingestion:** Call a physician immediately. Clean mouth with water.

**Most important symptoms/effects:** Breathing difficulties. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

**Notes to Physician:** Treat symptomatically

**SECTION 5: FIRE FIGHTING MEASURES**

**Suitable Extinguishing Media:** Water spray. Carbon dioxide (CO<sub>2</sub>). Dry chemical. chemical foam.

**Unsuitable Extinguishing Media:** No information available

**Flash Point:** 91 °C / 195.8 °F

**Method** - No information available

**Autoignition Temperature:** No information available

**Explosion Limits**

**Upper:** No data available

**Lower:** No data available

**Sensitivity to Mechanical Impact:** No information available

**Sensitivity to Static Discharge:** No information available

**Specific Hazards Arising from the Chemical:**

Combustible material. Flammable.

**Hazardous Combustion Products**

Carbon monoxide (CO) Carbon dioxide (CO<sub>2</sub>) Sulfur oxides Sulfides

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

**NFPA:** Health 3 Flammability 2 Instability 0 Physical hazards N/A

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:** Ensure adequate ventilation. Use personal protective equipment.

**Environmental Precautions:** See Section 12 for additional ecological information.

**Methods for Containment and Clean Up:** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

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**SECTION 7: HANDLING AND STORAGE**

**Handling:** Do not breathe dust. Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing. Use only in area provided with appropriate exhaust ventilation.

**Storage:** Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away from heat and sources of ignition.

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**SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION**

**Exposure Guidelines:** This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Engineering Measures:** Ensure adequate ventilation, especially in confined areas.

**Personal Protective Equipment**

**Eye/face Protection:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin and body protection:** Wear appropriate protective gloves and clothing to prevent skin exposure.

**Respiratory Protection:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety practice.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Physical State	Liquid
Appearance	Dark Yellow
Odor	Stench
Odor Threshold	No information available
pH	No information available
Melting Point/Range	10 - 11 °C / 50 - 51.8 °F
Boiling Point/Range	214 °C / 417.2 °F @ 760 mmHg
Flash Point	91 °C / 195.8 °F
Evaporation Rate	No information available
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	No information available
Relative Density	1.160
Solubility	No information available
Partition coefficient; n-octanol/water	1.160
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	C6 H6 O S
Molecular Weight	126.17

**SECTION 10: STABILITY AND REACTIVITY**

**Reactive Hazard:** None known, based on information available

**Stability:** Stable. Light sensitive.

**Conditions to Avoid:** Excess heat. Exposure to light. Incompatible products.

**Incompatible Materials:** Strong oxidizing agents, Strong bases, Strong reducing agents

**Hazardous Decomposition Products:** Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Sulfur oxides, Sulfides

**Hazardous Polymerization:** Hazardous polymerization does not occur.

**Hazardous Reactions:** None under normal processing

**Section 11: TOXICOLOGICAL INFORMATION****Acute Toxicity**

**Product Information:** No acute toxicity information is available for this product

**Component Information**

**Toxicologically Synergistic Products:** No information available

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Irritation:** No information available

**Sensitization:** No information available

**Carcinogenicity:** The table below indicates whether each agency has listed any ingredient as a carcinogen

Component	CAS-NO	IARC	NTP	ACGIH	OSHA	Mexico
Ethanone, 1-(2-thienyl)	88-15-3	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

**Mutagenic Effects:** No information available

**Reproductive Effects:** No information available.

**Developmental Effects:** No information available.

**Teratogenicity:** No information available.

**STOT - single exposure** None known

**STOT - repeated exposure** None known

**Aspiration hazard:** No information available

**Symptoms / effects, both acute and delayed:** Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

**Endocrine Disruptor Information:** No information available

**Other Adverse Effects:** The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

## Section 12: ECOLOGICAL INFORMATION

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### Ecotoxicity

Do not empty into drains.

**Persistence and Degradability:** No information available

**Bioaccumulation/ Accumulation:** No information available.

**Mobility:** No information available.

## Section 13: DISPOSAL CONSIDERATION

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**Waste Disposal Methods:** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification

## SECTION 14: TRANSPORT INFORMATION

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### DOT

**UN-No** UN2810

**Hazard Class** 6.1

**Packing Group** II

### TDG

**UN-No** UN2810

**Hazard Class** 6.1

**Packing Group** II

**IATA****UN-No** 2810**Proper Shipping Name** TOXIC LIQUID, ORGANIC, N.O.S.\***Hazard Class** 6.1**Packing Group** II**IMDG/IMO****UN-No** 2810**Proper Shipping Name** TOXIC LIQUID, ORGANIC, N.O.S.**Hazard Class** 6.1**Packing Group** II**15: OTHER REGULATORY INFORMATION****International Inventories**

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Ethanone, 1-(2-thienyl)-	X	-	X	201-804-6	-		X	-	X	X	-

**Legend:**

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B)).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

**U.S. Federal Regulations****TSCA 12(b)** Not applicable**SARA 313** Not applicable**SARA 311/312** Hazardous Categorization**Acute Health Hazard** Yes**Chronic Health Hazard** No**Fire Hazard** Yes**Sudden Release of Pressure Hazard** No**Reactive Hazard** No**Clean Water Act** Not applicable

**Clean Air Act** Not applicable

**OSHA Occupational Safety and Health Administration** Not applicable

**CERCLA**

Not applicable

**California Proposition 65** This product does not contain any Proposition 65 chemicals

**State Right-to-Know** Not applicable

**U.S. Department of Transportation**

**Reportable Quantity (RQ):** N

**DOT Marine Pollutant** N

**DOT Severe Marine Pollutant** N

**U.S. Department of Homeland Security**

This product does not contain any DHS chemicals.

**Other International Regulations**

Mexico - Grade No information available

**Canada**

**This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR**

**WHMIS Hazard Class**

B3 Combustible liquid

D1A Very toxic materials

## **SECTION 16: ADDITIONAL INFORMATION**

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This information is provided for documentation purposes only.

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