

# MATERIAL SAFETY DATA SHEET (SDS/MSDS)

## 2-ACETYLTHIOPHENE 98% FOR SYNTHESIS

CAS-No.: 88-15-3

Product Code: 00052

Molecular Formula:  $C_6H_6OS$

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

#### 1.1. Product identifier

Product form	:	Substance
Trade name	:	2-acetylthiophene 98% For Synthesis
EC-No.	:	201-804-6
CAS No	:	88-15-3
Synonyms	:	Methyl-2-thienyl ketone

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### 1.2.1. Relevant identified uses

Use of the substance/mixture : Laboratory chemicals, Manufacture of substances

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

Company : Chemnovo Synthesis Pvt Ltd.  
N-226 Near Kumbhavali Naka  
Tarapur MIDC, Boisar-401 506  
Palghar, Maharashtra  
Telephone : +91 7400096089  
Email: export@chemnovo.in

#### 1.4. Emergency telephone number

Emergency number : + 91 7400096089 (9:00am – 6:00 pm)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral), H300

Category 1

Acute toxicity (dermal), H311

Category 3

Acute toxicity (inhal.), H331

Category 3

Full text of classification categories and H statements : see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

T; R23

T; R25

C; R34

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

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### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS06

Signal word (CLP)	:	Danger
Hazard statements (CLP)	:	H300 – Fatal if swallowed H311+H331 – Toxic in contact with skin or if inhaled
Precautionary statements (CLP)	:	P261 – Avoid breathing vapours, dust, fume, gas P264 – Wash hands thoroughly after handling P280 – Wear protective gloves, protective clothing, eye protection, face protection P301+P310 – IF SWALLOWED: Immediately call a POISON CENTER P311 – Call a doctor

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Name	:	2-acetylthiophene 98% For Synthesis
CAS No	:	88-15-3
EC no	:	201-804-6

Full text of R- and H-statements: see section 16

### 3.2. Mixture

Not applicable

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
First-aid measures after skin contact	:	Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.
First-aid measures after eye contact	:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call

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First-aid measures after ingestion : a POISON CENTER or doctor/physician.  
Rinse mouth. Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Get medical advice/attention.

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

Symptoms/injuries after inhalation : Toxic if inhaled.

Symptoms/injuries after skin contact : Toxic in contact with skin.

Symptoms/injuries after ingestion : Fatal if swallowed.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide. Dry powder. Foam. Water spray.

Unsuitable extinguishing media : Do not use extinguishing media containing water.

#### 5.2. Special hazards arising from the substance or mixture

No additional information available

#### 5.3. Advice for firefighter

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

Protective equipment : Use personal protective equipment as required.

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : On land, sweep or shovel into suitable containers. Collect spillage.

#### 6.4. Reference to other sections

No additional information available

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Do not breathe vapours. Provide



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Hygiene measures : good ventilation in process area to prevent formation of vapour.  
Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep container tightly closed.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

Hand protection : protective gloves  
Eye protection : Chemical goggles or safety glasses  
Skin and body protection : Wear suitable protective clothing  
Respiratory protection : Wear respiratory protection

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid  
Molecular mass : 126.18 g/mol  
Colour : brown  
Odour : No data available  
Odour threshold : No data available  
pH : No data available  
Relative evaporation rate (butylacetate=1) : No data available  
Melting point : 10 - 11 °C  
Freezing point : No data available  
Boiling point : 214 °C  
Flash point : 96 °C  
Auto-ignition temperature : No data available  
Decomposition temperature : No data available  
Flammability (solid, gas) : No data available  
Vapour pressure : No data available  
Relative vapour density at 20 °C : No data available  
Relative density : No data available  
Solubility : No data available  
Log Pow : No data available  
Viscosity, kinematic : No data available  
Viscosity, dynamic : No data available  
Explosive properties : No data available

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Oxidising properties : No data available  
Explosive limits : No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Thermal decomposition generates : Corrosive vapours.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

Open flame. Heat. Sparks. Overheating

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Thermal decomposition generates : Corrosive vapours.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity	:	Oral: Fatal if swallowed. Dermal: Toxic in contact with skin. Inhalation: Toxic if inhaled.
Skin corrosion/irritation	:	Not classified
Serious eye damage/irritation	:	Not classified
Respiratory or skin sensitisation	:	Not classified
Germ cell mutagenicity	:	Not classified
Carcinogenicity	:	Not classified
Reproductive toxicity	:	Not classified
Specific target organ toxicity (single exposure)	:	Not classified
Specific target organ toxicity (repeated exposure)	:	Not classified
Aspiration hazard	:	Not classified
Potential adverse human health effects and symptoms	:	Toxic if swallowed.

## SECTION 12: Ecological information

### 12.1. Toxicity

No additional information available

**12.2. Persistence and degradability**

No additional information available

**12.3. Bioaccumulative potential**

No additional information available

**12.4. Mobility in soil**

No additional information available

**12.5. Results of PBT and vPvB assessment**

No additional information available

**12.6. Other adverse effects**

No additional information available

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

Product/Packaging disposal recommendations	:	Dispose of contents/container to ...
Ecology – waste materials	:	Hazardous waste due to toxicity

**SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / AND

**14.1. UN number**

UN-No. (ADR)	:	2810
UN-No. (IMDG)	:	2810
UN-No.(IATA)	:	2810
UN-No.(AND)	:	2810
UN-No. (RID)	:	2810

**14.2. UN proper shipping name**

Proper Shipping Name (ADR)	:	TOXIC LIQUID, ORGANIC, N.O.S.
Proper Shipping Name (IMDG)	:	TOXIC LIQUID, ORGANIC, N.O.S.
Proper Shipping Name (IATA)	:	TOXIC LIQUID, ORGANIC, N.O.S.
Proper Shipping Name (ADN)	:	TOXIC LIQUID, ORGANIC, N.O.S.
Proper Shipping Name (RID)	:	TOXIC LIQUID, ORGANIC, N.O.S.
Transport document description (ADR) :		UN 2810 TOXIC LIQUID, ORGANIC, N.O.S., 6.1, II, (D/E)
Transport document description (IMDG)		UN 2810 TOXIC LIQUID, ORGANIC, N.O.S., 6.1, II
Transport document description (IATA) :		UN 2810 TOXIC LIQUID, ORGANIC, N.O.S., 6.1, II
Transport document description (ADN) :		UN 2810 TOXIC LIQUID, ORGANIC, N.O.S., 6.1, II
Transport document description (RID) :		UN 2810 TOXIC LIQUID, ORGANIC, N.O.S., 6.1, II

**14.3. Transport hazard class(es)**

ADR

Transport hazard class(es) (ADR)	:	6.1
Danger labels (ADR)	:	6.1

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DRIVEN BY CHEMISTRY, DEFINED BY PRECISION

**IMDG**

Transport hazard class(es) (IMDG) : 6.1

Danger labels (IMDG) : 6.1

**IATA**

Transport hazard class(es) (IATA) : 6.1

Hazard labels (IATA) : 6.1

**AND**

Transport hazard class(es) (ADN) : 6.1

Danger labels (ADN) : 6.1

**RID**

Transport hazard class(es) (RID) : 6.1

Danger labels (RID) : 6.1



**MATERIAL SAFETY DATA SHEET (SDS/MSDS)****2-ACETYLTHIOPHENE 98% FOR SYNTHESIS****CAS-No.: 88-15-3****14.4. Packing group**

Packing group (ADR)	:	II
Packing group (IMDG)	:	II
Packing group (IATA)	:	II
Packing group (ADN)	:	II
Packing group (RID)	:	II

**14.5. Environmental hazards**

Dangerous for the environment	:	No
Marine pollutant	:	No
Other information	:	No supplementary information available

**14.6. Special precautions for user****- Overland transport**

Classification code (ADR)	:	T1
Special provision (ADR)	:	274, 614
Limited quantities (ADR)	:	100ml
Excepted quantities (ADR)	:	E4
Packing instructions (ADR)	:	P001, IBC02
Mixed packing provisions (ADR)	:	Mp15
Portable tank and bulk container instructions (ADR)	:	T11
Portable tank and bulk container special provisions (ADR)	:	TP2, Tp27
Tank code (ADR)	:	L4BH
Tank special provisions (ADR)	:	TU15, Te19
Vehicle for tank carriage	:	AT
Transport category (ADR)	:	2
Special provisions for carriage - Loading, unloading and handling (ADR)	:	CV13, Cv28
Special provisions for carriage - Operation (ADR)	:	S9, S19
Hazard identification number (Kemler No.)	:	60
Orange plates	:	

<b>60</b>
<b>2810</b>

**MATERIAL SAFETY DATA SHEET (SDS/MSDS)****2-ACETYLTHIOPHENE 98% FOR SYNTHESIS****CAS-No.: 88-15-3**

Tunnel restriction code (ADR)	:	D/E
EAC code	:	2X
APP code	:	B
- Transport by sea		
Special provision (IMDG)	:	274
Limited quantities (IMDG)	:	100 ml
Excepted quantities (IMDG)	:	E4
Packing instructions (IMDG)	:	P001
IBC packing instructions (IMDG)	:	IBC02
Tank instructions (IMDG)	:	T11
Tank special provisions (IMDG)	:	TP2, TP13, Tp27
EmS-No. (Fire)	:	F-A
EmS-No. (Spillage)	:	S-A
Stowage category (IMDG)	:	B
Stowage and handling (IMDG)	:	Sw2
MFAG-No	:	153
- Air transport		
PCA Excepted quantities (IATA)	:	E4
PCA Limited quantities (IATA)	:	Y641
PCA limited quantity max net quantity : (IATA)	:	1L
PCA packing instructions (IATA)	:	654
PCA max net quantity (IATA)	:	5L
CAO packing instructions (IATA)	:	662
CAO max net quantity (IATA)	:	60L
Special provision (IATA)	:	A3, A4, A137
ERG code (IATA)	:	6L
- Inland waterway transport		
Classification code (ADN)	:	T1
Special provisions (ADN)	:	274, 614, 802
Limited quantities (ADN)	:	100 ml
Excepted quantities (ADN)	:	E4
Carriage permitted (AND)	:	T
Equipment required (ADN)	:	PP, EP, TOX, A
Ventilation (ADN)	:	Ve02
Number of blue cones/lights (ADN)	:	2
- Rail transport		
Classification code (RID)	:	T1
Special provision (RID)	:	274, 614
Limited quantities (RID)	:	100ml
Excepted quantities (RID)	:	E4
Packing instructions (RID)	:	P001, IBC02

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Mixed packing provisions (RID)	:	Mp15
Portable tank and bulk container instructions (RID)	:	T11
Portable tank and bulk container special provisions (RID)	:	TP2, Tp27
Tank codes for RID tanks (RID)	:	L4BH
Special provisions for RID tanks (RID)	:	Tu15
Transport category (RID)	:	2
Special provisions for carriage – Loading and unloading (RID)	:	CW13, CW28, Cw31
Colis express (express parcels) (RID)	:	Ce5
Hazard identification number (RID)	:	60

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****15.1.1. EU-Regulations**

No REACH Annex XVII restrictions

2-Acetylthiophene 98% For Synthesis is not on the REACH Candidate List

2-Acetylthiophene 98% For Synthesis is not on the REACH Annex XIV List

**15.1.2. National regulations****Germany**

12th Ordinance Implementing the Federal

Immission Control Act – 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

**Denmark**

Class for fire hazard : Class III-1

Store unit : 50 liter

Classification remarks : Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product

**15.2. Chemical safety assessment**

No additional information available

**SECTION 16: Other information**

Full text of R-, H- and EUH-statements:

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Acute Tox. 1 (Oral)	Acute toxicity (oral), Category 1
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
H300	Fatal if swallowed
H311	Toxic in contact with skin
H331	Toxic if inhaled
R23	Toxic by inhalation
R25	Toxic if swallowed
R34	Causes burns
C	Corrosive
T	Toxic

**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 in this document is based on the present 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. Chemnovo Synthesis Pvt Ltd. and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.chemnovo.in](http://www.chemnovo.in) for additional terms and conditions of sale.

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