

# MATERIAL SAFETY DATA SHEET (SDS/MSDS)

**2-ACETYLTHIOPHENE 98% FOR  
SYNTHESIS**  
CAS-No.: 88-15-3  
Product Code: 00052  
Molecular Formula:  $C_6H_6OS$

**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

**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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a POISON CENTER or doctor/physician.

First-aid measures after ingestion : 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.
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**7.2. Conditions for safe storage, including any incompatibilities**

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

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

:



**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

:

**14.4. Packing group**

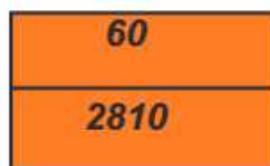
Packing group (ADR)	:	II
Packing group (IMDG)	:	II
Packing group (IATA)	:	II
Packing group (ADN)	:	II
Packing group (RID)	:	II

**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	:	



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Tunnel restriction code (ADR)	:	D/E
EAC code	:	2X
APP code	:	B
<b>- Transport by sea</b>		
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
<b>- Air transport</b>		
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
<b>- Inland waterway transport</b>		
Classification code (ADN)	:	T1
Special provisions (ADN)	:	274, 614, 802
Limited quantities (ADN)	:	100 ml
Excepted quantities (ADN)	:	E4
Carriage permitted (ADN)	:	T
Equipment required (ADN)	:	PP, EP, TOX, A
Ventilation (ADN)	:	Ve02
Number of blue cones/lights (ADN)	:	2
<b>- Rail transport</b>		
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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DRIVEN BY CHEMISTRY, DEFINED BY PRECISION

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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