# THIOPHENE EXTRA PURE MSDS

# CAS No: 110-02-1 MSDS



# MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification of the substance/mixture and of the company/undertaking				
1.1. Product identifier				
Product form	: Substance			
	:			
EC no	: 203-729-4			
CAS No Product code	: 110-02-1 : 6282D			
Chemical structure	. 0202D			
	s			
Synonyms	: Thiofuran / Thiole			
1.2. Relevant identified use	es of the substance or mixture and uses advised against			
1.2.1. Relevant identified use	95			
Use of the substance/mixture	: Laboratory chemicals, Manufacture of substances			
<b>1.2.2. Uses advised against</b> No additional information available	le			
1.3. Details of the supplier	of the safety data sheet			
Labogens Fine Chem Industries 1st Floor , Above Bank of India, C Ludhiana Pb. (141007) +91 9316777775, +91 770785570 sales@labogens.comwww.La	00			
1.4. Emergency telephone	number			
Emergency number	: +91 7707855700 (9:00am - 6:00 pm)			
SECTION 2: Hazards identification				
2.1. Classification of the su	Ibstance or mixture			
Classification according to Reg	gulation (EC) No. 1272/2008 [CLP]			
Flammable liquids, H225				
Category 2 Acute toxicity (oral), H302				
Category 4				
Acute toxicity (inhal.), H331 Category 3				
Skin corrosion/irritation, H315				
Category 2	09/04/2015	1/11		

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Serious eye damage/eye H318 irritation, Category 1 Specific target organ H335 toxicity — Single exposure, Category 3, Respiratory tract irritation

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

Classification according to Directive 67/548/EEC or 1999/45/EC

F; R11 Xn; R20/22 Xi; R41 Xi; R37/38 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)	
	GHS02 GHS05 GHS06
Signal word (CLP)	: Danger
Hazard statements (CLP)	<ul> <li>H225 - Highly flammable liquid and vapour</li> <li>H302 - Harmful if swallowed</li> <li>H315 - Causes skin irritation</li> <li>H318 - Causes serious eye damage</li> <li>H331 - Toxic if inhaled</li> <li>H335 - May cause respiratory irritation</li> </ul>
Precautionary statements (CLP)	<ul> <li>P210 - Keep away from heat/sparks/open flames/hot surfaces No smoking P261 - Avoid breathing dust/fume/gas/mist/vapours/spray</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection</li> <li>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing</li> </ul>

#### 2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients				
3.1. Sub	stance			
Name	: THIOPHENE Extra Pure			
CAS No	: 110-02-1			
www.Labogens.c	om 09/04/201	5 2/11		

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: 203-729-4

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

3.2.	Mixture
Not ap	plicable

SECTION 4: First aid measures **Description of first aid measures** 41 First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see ... on this label). : Rinse cautiously with water for several minutes. Remove contact lenses, if present First-aid measures after eye contact and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. First-aid measures after ingestion : Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell. 4.2. Most important symptoms and effects, both acute and delayed Symptoms/injuries after inhalation : May cause respiratory irritation. Toxic if inhaled. Symptoms/injuries after skin contact : Causes skin irritation. Symptoms/injuries after eye contact : Causes serious eye damage. Symptoms/injuries after ingestion : Harmful if swallowed. 4.3. Indication of any immediate medical attention and special treatment needed Treat symptomatically. SECTION 5: Firefighting measures **Extinguishing media** 5.1. Suitable extinguishing media : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2). Unsuitable extinguishing media : Do not use a heavy water stream. 5.2. Special hazards arising from the substance or mixture Fire hazard : Highly flammable liquid and vapour. Explosion hazard : May form flammable/explosive vapour-air mixture. 5.3. Advice for firefighters Protection during firefighting : Do not attempt to take action without suitable protective equipment. SECTION 6: Accidental release measures 6.1. Personal precautions, protective equipment and emergency procedures General measures : Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking. 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. Emergency procedures : Stop release.

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6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for conta	ainment and cleaning up
Methods for cleaning up	: Collect spillage. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. On land, sweep or shovel into suitable containers.
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed Precautions for safe handling	<ul> <li>Handle empty containers with care because residual vapours are flammable.</li> <li>No naked lights. No smoking. Use only non-sparking tools. Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area.</li> </ul>
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash thoroughly after handling.
7.2. Conditions for safe storage, in	cluding any incompatibilities
Storage conditions	: Keep in fireproof place. Keep container tightly closed. Store in original container. Store in a well-ventilated place.
Incompatible materials	: Heat sources.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/person	al protection
8.1. Control parameters	

No additional information available

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Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 3.82 °C
Freezing point	: No data available
Boiling point	: 84 °C
Flash point	: -1 °C
Auto-ignition temperature	: 395 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: Flammable Highly flammable liquid and vapour
Vapour pressure	: No data available
Relative vapour density at 20 °C	: 2.9
Relative density	: No data available
Density Solubility	: 1.1 g/cm³ : Water: Insoluble in cold water
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	: 0.015 - 0.125 vol %

## 9.2. Other information

## No additional information available

**SECTION 10: Stability and reactivity** 

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Highly flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

#### 10.3. Possibility of hazardous reactions

No additional information available

#### 10.4. Conditions to avoid

Open flame. Direct sunlight. Overheating.

## 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

May release flammable gases.

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### **SECTION 11: Toxicological information** 11.1. Information on toxicological effects Acute toxicity : Oral: Harmful if swallowed. Inhalation: Toxic if inhaled. Skin corrosion/irritation : Causes skin irritation. Serious eye damage/irritation : Causes serious eye damage. Respiratory or skin sensitisation : Not classified : Not classified Germ cell mutagenicity Carcinogenicity : Not classified Reproductive toxicity : Not classified Specific target organ toxicity (single : May cause respiratory irritation. exposure) Specific target organ toxicity (repeated : Not classified exposure) Aspiration hazard : Not classified Potential adverse human health effects : Harmful if swallowed. and symptoms **SECTION 12: Ecological information** 12.1. Toxicity No additional information available

	12.2.	Persistence	and d	legradability	y
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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

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SECTION 13: Disposal consideration	S
13.1. Waste treatment methods	
Product/Packaging disposal recommendations	: Dispose of contents/container to
Additional information	: Handle empty containers with care because residual vapours are flammable.
SECTION 14: Transport information	

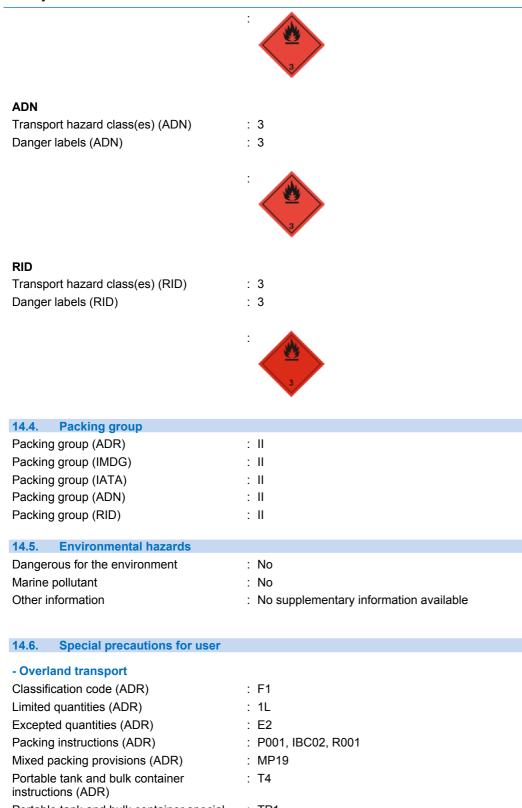
In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number	
UN-No. (ADR)	: 2414
UN-No. (IMDG)	: 2414
UN-No.(IATA)	: 2414
UN-No.(ADN)	: 2414
UN-No. (RID)	: 2414
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: THIOPHENE
Proper Shipping Name (IMDG)	: THIOPHENE
Proper Shipping Name (IATA)	: THIOPHENE
Proper Shipping Name (ADN)	: THIOPHENE
Proper Shipping Name (RID)	: THIOPHENE
Transport document description (ADR)	: UN 2414 THIOPHENE, 3, II, (D/E)
Transport document description (IMDG)	: UN 2414 THIOPHENE, 3, II (-9°C c.c.)
Transport document description (IATA)	: UN 2414 THIOPHENE, 3, II
Transport document description (ADN)	: UN 2414 THIOPHENE, 3, II
Transport document description (RID)	: UN 2414 THIOPHENE, 3, II
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14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: 3
Danger labels (ADR)	: 3
	3
IMDG	
Transport hazard class(es) (IMDG)	: 3
Danger labels (IMDG)	: 3
<u> </u>	

Transport hazard class(es) (IATA)	
Hazard labels (IATA)	

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- Overland transport		
Classification code (ADR)	:	F1
Limited quantities (ADR)	:	1L
Excepted quantities (ADR)	:	E2
Packing instructions (ADR)	:	P001, IBC02, F
Mixed packing provisions (ADR)	:	MP19
Portable tank and bulk container instructions (ADR)	:	Τ4
Portable tank and bulk container special provisions (ADR)	:	TP1
Tank code (ADR)	:	LGBF
Vehicle for tank carriage	:	FL
Transport category (ADR)	:	2
Special provisions for carriage - Operation (ADR)	:	S2, S20
Hazard identification number (Kemler No.)	:	33

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Orange plates	33 2414
	2414
Tunnel restriction code (ADR)	: D/E
EAC code	: 3WE
APP code	: A(fl)
- Transport by sea	
Limited quantities (IMDG)	: 1L
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-D
Stowage category (IMDG)	: B
Stowage and handling (IMDG)	: SW2
Flash point (IMDG)	: -9°C c.c.
MFAG-No	: 130
- Air transport	
PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y341
PCA limited quantity max net quantity	: 1L
(IATA)	
PCA packing instructions (IATA)	: 353
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 364
CAO max net quantity (IATA)	: 60L
ERG code (IATA)	: 3H
<ul> <li>Inland waterway transport</li> </ul>	
Classification code (ADN)	: F1
Limited quantities (ADN)	: 1L
Excepted quantities (ADN)	: E2
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01
Number of blue cones/lights (ADN)	: 1
- Rail transport	
Classification code (RID)	: F1
Limited quantities (RID)	: 1L
Excepted quantities (RID)	: E2
Packing instructions (RID)	: P001, IBC02, R001
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T4
Portable tank and bulk container special provisions (RID)	: TP1
Tank codes for RID tanks (RID)	: LGBF
Transport category (RID)	: 2
Colis express (express parcels) (RID)	: CE7
Hazard identification number (RID)	: 33

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<b>14.7.</b> Transport in bulk according to A Not applicable	Annex II of MARPOL 73/78 and the IBC Code
SECTION 15: Regulatory information	
15.1. Safety, health and environmenta	al regulations/legislation specific for the substance or mixture
15.1.1. EU-Regulations	
No REACH Annex XVII restrictions THIOPHENE Extra Pure is not on the REA THIOPHENE Extra Pure is not on the REA	
15.1.2. National regulations	
Germany	
AwSV/VwVwS Annex reference	<ul> <li>Water hazard class (WGK) 3, strongly hazardous to water (Classification according to VwVwS, Annex 2; WGK No 921)</li> </ul>
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)
Denmark	
Classification remarks	: 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

15.2.	Chemical	safety	assessment

No additional information available

**SECTION 16: Other information** 

## Full text of R-, H- and EUH-phrases:

Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H225	Highly flammable liquid and vapour
H302	Harmful if swallowed
H315	Causes skin irritation
H318	Causes serious eye damage

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H331	Toxic if inhaled
H335	May cause respiratory irritation
R11	Highly flammable
R20/22	Harmful by inhalation and if swallowed
R37/38	Irritating to respiratory system and skin
R41	Risk of serious damage to eyes
F	Highly flammable
Xi	Irritant
Xn	Harmful

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product