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 | | | |
| 1.2.2. Uses advised against 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) | H225 - Highly flammable liquid and vapour H302 - Harmful if swallowed H315 - Causes skin irritation H318 - Causes serious eye damage H331 - Toxic if inhaled H335 - May cause respiratory irritation |
| Precautionary statements (CLP) | P210 - Keep away from heat/sparks/open flames/hot surfaces No smoking P261 - Avoid breathing dust/fume/gas/mist/vapours/spray P280 - Wear protective gloves/protective clothing/eye protection/face protection P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing |

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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EC no

: 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 | Handle empty containers with care because residual vapours are flammable. 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. |
| 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 |
|--|-------|-------------|-------|---------------|---|
|--|-------|-------------|-------|---------------|---|

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 | |

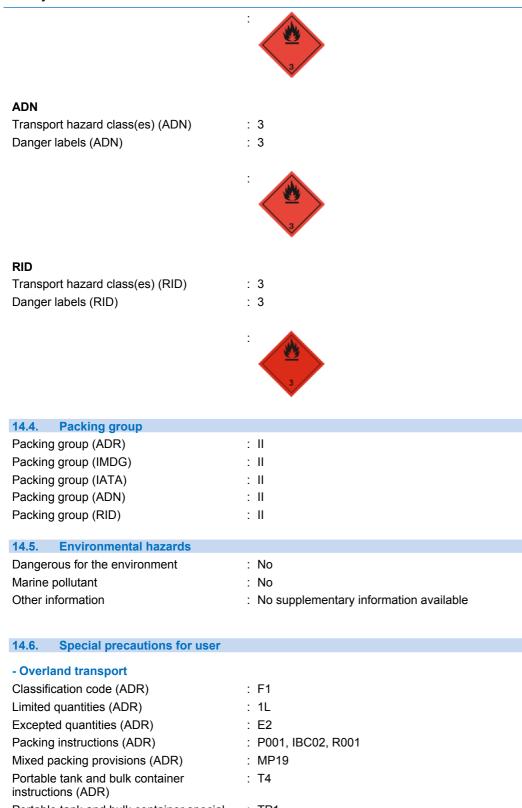
In accordance with ADR / RID / IMDG / IATA / ADN

| 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 |
| ······································ | |
| 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) | |

: 3 : 3

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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 |
| Inland waterway transport | |
| 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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| 14.7. 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 | Water hazard class (WGK) 3, strongly hazardous to water (Classification according to VwVwS, Annex 2; WGK No 921) |
| 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