# PHENYL ISOTHIOCYNATE FOR SYNTHESIS MSDS

CAS-No.: 103-72-0 MSDS



# **MATERIAL SAFETY DATA SHEET (MSDS)**

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

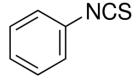
#### 1.1. Product identifier

Product form : Substance

:

CAS-No. : 103-72-0 Product code : 05223

Chemical structure



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

#### 1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial

For professional use only

#### 1.2.2. Uses advised against

No additional information available

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

LOBA CHEMIE PVT.LTD.

107 Wode House Road, Jehangir Villa, Colaba

400005 Mumbai - INDIA

T +91 22 6663 6663 - F +91 22 6663 6699

info@lobachemie.com - www.lobachemie.com

# 1.4. Emergency telephone number

Emergency number : + 91 22 6663 6663 (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), H301

Category 3

Skin corrosion/irritation,

H314

Category 1

Respiratory sensitisation, H334

Category 1

Skin sensitisation, H317

Category 1

Full text of H statements : see section 16

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

Not classified

#### 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) :







GHS05

GHS06

GHS08

Signal word (CLP) : Danger

Hazard statements (CLP) : H301 - Toxic if swallowed.

H314 - Causes severe skin burns and eye damage.

H317 - May cause an allergic skin reaction.

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statements (CLP) : P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a POISON CENTER/doctor

# 2.3. Other hazards

No additional information available

#### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Name : PHENYL ISOTHIOCYNATE For Synthesis

CAS-No. : 103-72-0

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

#### 3.2. Mixtures

Not applicable

#### **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Give oxygen or

artificial respiration if necessary. If you feel unwell, seek medical advice.

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First-aid measures after skin contact : Gently wash with plenty of soap and water. If skin irritation occurs: Get medical

advice/attention.

First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously

with water for several minutes. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth out with water. If you feel unwell, seek medical advice.

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

Symptoms/effects : Causes severe skin burns and eye damage.

Symptoms/effects after inhalation : May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Symptoms/effects after skin contact : May cause an allergic skin reaction.

Symptoms/effects after ingestion : Toxic 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 : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).

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 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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Avoid contact with skin, eyes and clothing.

# 6.1.2. For emergency responders

Protective equipment : Use personal protective equipment as required.

Emergency procedures : Stop release.

#### 6.2. Environmental precautions

Avoid release to the environment.

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

Methods for cleaning up : Clean up immediately by sweeping or vacuum. Clean contaminated surfaces with an

excess of water.

#### 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.

Hygiene measures : 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 original container. Store in a dry place. Keep in fireproof place.

#### 7.3. Specific end use(s)

No additional information available

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# **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 : Chemical resistant safety shoes
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 : 135.18 g/mol

Colour : Clear colorless to yellow.

Odour : No data available

Odour threshold : No data available

pH : No data available

Relative evaporation rate (butylacetate=1) : No data available

Melting point : No data available

Freezing point : -21 °C

Boiling point : 218 K

Flash point : 88 °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  $^{\circ}\text{C}$   $\phantom{0}$  : No data available

Relative density : No data available

Density : 1.132 g/cm³

Solubility : No data available

Log Pow : No data available

Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

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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

No additional information available

# 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No additional information available

#### 10.4. Conditions to avoid

Direct sunlight. High temperature. Overheating.

#### 10.5. Incompatible materials

No additional information available

# 10.6. Hazardous decomposition products

No additional information available

# **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity : Oral: Toxic if swallowed.

Skin corrosion/irritation : Causes severe skin burns and eye damage. Serious eye damage/irritation : Serious eye damage, category 1, implicit

Respiratory or skin sensitisation : May cause allergy or asthma symptoms or breathing difficulties if inhaled. May

cause an allergic skin reaction.

Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

Reproductive toxicity : Not classified STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

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#### **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

No additional information available

# **SECTION 14: Transport information**

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

#### 14.1. UN number

 UN-No. (ADR)
 : 2927

 UN-No. (IMDG)
 : 2927

 UN-No. (IATA)
 : 2927

 UN-No. (ADN)
 : 2927

 UN-No. (RID)
 : 2927

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S.

Proper Shipping Name (IMDG) : TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S.

Proper Shipping Name (IATA) : Toxic liquid, corrosive, organic, n.o.s.

Proper Shipping Name (ADN) : TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S. Proper Shipping Name (RID) : TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S.

Transport document description (ADR) : UN 2927 TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S., 6.1 (8), II, (D/E) Transport document description (IMDG) : UN 2927 TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S., 6.1 (8), II

Transport document description (IATA) : UN 2927 Toxic liquid, corrosive, organic, n.o.s., 6.1, II

Transport document description (ADN) : UN 2927 TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S., 6.1 (8), II
Transport document description (RID) : UN 2927 TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S., 6.1 (8), II

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

#### ADR

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Transport hazard class(es) (ADR) : 6.1 (8)
Danger labels (ADR) : 6.1, 8



#### **IMDG**

Transport hazard class(es) (IMDG) : 6.1 (8)
Danger labels (IMDG) : 6.1, 8



#### **IATA**

Transport hazard class(es) (IATA) : 6.1 (8) Hazard labels (IATA) : 6.1, 8



#### ADN

Transport hazard class(es) (ADN) : 6.1 (8)
Danger labels (ADN) : 6.1, 8



# RID

Transport hazard class(es) (RID) : 6.1 (8)
Danger labels (RID) : 6.1, 8



# 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

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Marine pollutant : No

Other information : No supplementary information available

#### 14.6. Special precautions for user

#### - Overland transport

Classification code (ADR) : TC1
Special provisions (ADR) : 274
Limited quantities (ADR) : 100ml
Excepted quantities (ADR) : E4

Packing instructions (ADR) : P001, IBC02
Mixed packing provisions (ADR) : MP15
Portable tank and bulk container : T11

instructions (ADR)

Portable tank and bulk container special

provisions (ADR)

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)

Special provisions for carriage - Operation : S9, S19

(ADR)

Hazard identification number (Kemler No.) : 68

Orange plates

68 2927

: TP2, TP27

: CV13, CV28

Tunnel restriction code (ADR) : D/E
EAC code : 2XE
APP code : B

#### - Transport by sea

Special provisions (IMDG) : 274

Packing instructions (IMDG) : P001

IBC packing instructions (IMDG) : IBC02

Tank instructions (IMDG) : T11

Tank special provisions (IMDG) : TP2, TP27

EmS-No. (Fire) : F-A

EmS-No. (Spillage) : S-B
Stowage category (IMDG) : B
Stowage and handling (IMDG) : SW2

Properties and observations (IMDG) : Toxic if swallowed, by skin contact or by inhalation. Causes burns to skin, eyes and

mucous membranes.

### - Air transport

PCA Excepted quantities (IATA) : E4
PCA Limited quantities (IATA) : Y640
PCA limited quantity max net quantity : 0.5L

(IATA)

PCA packing instructions (IATA) : 653
PCA max net quantity (IATA) : 1L
CAO packing instructions (IATA) : 660
CAO max net quantity (IATA) : 30L
Special provisions (IATA) : A4, A137

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ERG code (IATA) : 6C

- Inland waterway transport

Classification code (ADN) : TC1

Special provisions (ADN) : 274, 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

- Rail transport

Classification code (RID) : TC1
Special provisions (RID) : 274
Excepted quantities (RID) : E4

Packing instructions (RID) : P001, IBC02

Mixed packing provisions (RID) : MP15
Portable tank and bulk container : T11

instructions (RID)

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,

unloading and handling (RID)

: CW13, CW28, CW31

Colis express (express parcels) (RID) : CE5
Hazard identification number (RID) : 68

#### 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

PHENYL ISOTHIOCYNATE For Synthesis is not on the REACH Candidate List PHENYL ISOTHIOCYNATE For Synthesis is not on the REACH Annex XIV List

# 15.1.2. National regulations

#### Germany

12th Ordinance Implementing the Federal : Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

Immission Control Act - 12.BlmSchV

#### Netherlands

SZW-lijst van kankerverwekkende stoffen : The substance is not listed

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SZW-lijst van mutagene stoffen

NIET-limitatieve lijst van voor de

voortplanting giftige stoffen – Borstvoeding

: The substance is not listed: The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen –

Vruchtbaarheid

: The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling

: The substance is not listed

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

### 15.2. Chemical safety assessment

No additional information available

#### **SECTION 16: Other information**

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

Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Resp. Sens. 1	Respiratory sensitisation, Category 1
Skin Corr. 1	Skin corrosion/irritation, Category 1
Skin Sens. 1	Skin sensitisation, Category 1
H301	Toxic if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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

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