# PHOSPHORUS OXYCHLORIDE EXTRA PURE MSDS

CAS No: 10025-87-3 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 index no : 015-009-00-5
EC no : 233-046-7
CAS No : 10025-87-3
Product code : 05258
Formula : POCI3

# 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

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), H302

Category 4

....

Skin corrosion/irritation,

H314

Category 1A Serious eye damage/eye

e H318

irritation, Category 1

11010

Specific target organ

H372

toxicity — Repeated

exposure, Category 1

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

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

T+; R26 T; R48/23 Xn; R22 C; R35 R14

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)







GHS05

GHS07

GHS08

Signal word (CLP) : Danger

Hazard statements (CLP) : H302 - Harmful if swallowed

H314 - Causes severe skin burns and eye damage

H372 - Causes damage to organs through prolonged or repeated exposure

Precautionary statements (CLP) : P260 - Do not breathe 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 P310 - Immediately call a POISON CENTER or doctor/physician

## 2.3. Other hazards

No additional information available

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

# 3.1. Substance

Name : PHOSPHORUS OXYCHLORIDE Extra Pure

CAS No : 10025-87-3 EC no : 233-046-7 EC index no : 015-009-00-5

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

#### 3.2. Mixture

Not applicable

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# **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 a POISON CENTER or

doctor/physician.

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

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

Symptoms/injuries : Causes severe skin burns and eye damage. Causes damage to organs through

prolonged or repeated exposure.

Symptoms/injuries after eye contact : Causes serious eye damage.

Symptoms/injuries after ingestion : Swallowing a small quantity of this material will result in serious health hazard.

#### 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 : Evacuate unnecessary personnel.

# 6.1.2. For emergency responders

Protective equipment : Use personal protective equipment as required.

Emergency procedures : Stop release.

# 6.2. Environmental precautions

Do not allow water (or moist air) contact with this material.

# 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Collect spillage. On land, sweep or shovel into suitable containers. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.

# 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 : Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact during

pregnancy/while nursing.

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Hygiene measures : Do not eat, drink or smoke when using this product. Wash ... thoroughly after

handling.

# 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.

Storage conditions : Store in dry protected location to prevent any moisture contact.

# 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 face shield
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 : 153.33 g/mol Colour : Clear Colorless.

Odour : pungent odour.

Odour threshold : No data available

pH : No data available

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

Melting point : 1.25 °C

Freezing point : No data available

Boiling point : 105.8 °C

Flash point : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Flammability (solid, gas) : No data available

Vapour pressure : 37 hPa at 20 °C

Relative vapour density at 20 °C : 5.29

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Relative density : No data available

Density : 1.645 g/cm<sup>3</sup>

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. Reacts violently with water.

# 10.2. Chemical stability

No additional information available

# 10.3. Possibility of hazardous reactions

Highly reactive material. Reacts violently with water.

# 10.4. Conditions to avoid

Direct sunlight. Overheating. Open flame. Heat. Sparks.

#### 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: Harmful if swallowed.

Skin corrosion/irritation : Causes severe skin burns and eye damage.

Serious eye damage/irritation : Causes serious eye damage.

Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

Reproductive toxicity : Not classified Specific target organ toxicity (single : Not classified

exposure)

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Specific target organ toxicity (repeated

exposure)

: Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified

Potential adverse human health effects

and symptoms

: Harmful 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

: Dispose of contents/container to ...

recommendations

Additional information

: Do not allow water (or moist air) contact with this material.

# **SECTION 14: Transport information**

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

# 14.1. UN number

 UN-No. (ADR)
 : 1810

 UN-No. (IMDG)
 : 1810

 UN-No.(IATA)
 : 1810

 UN-No.(ADN)
 : 1810

 UN-No. (RID)
 : 1810

# 14.2. UN proper shipping name

Proper Shipping Name (ADR) : PHOSPHORUS OXYCHLORIDE

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Proper Shipping Name (IMDG) : PHOSPHORUS OXYCHLORIDE
Proper Shipping Name (IATA) : PHOSPHORUS OXYCHLORIDE
Proper Shipping Name (ADN) : PHOSPHORUS OXYCHLORIDE
Proper Shipping Name (RID) : PHOSPHORUS OXYCHLORIDE

Transport document description (ADR)

: UN 1810 PHOSPHORUS OXYCHLORIDE, 6.1 (8), I, (C/D)

Transport document description (IMDG)

: UN 1810 PHOSPHORUS OXYCHLORIDE, 6.1 (8), I

: UN 1810 PHOSPHORUS OXYCHLORIDE, 6.1, I

: UN 1810 PHOSPHORUS OXYCHLORIDE, 6.1 (8), I

: UN 1810 PHOSPHORUS OXYCHLORIDE, 6.1 (8), I

: UN 1810 PHOSPHORUS OXYCHLORIDE, 6.1 (8), I

## 14.3. Transport hazard class(es)

# **ADR**

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

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#### 14.4. **Packing group**

Packing group (ADR) : 1 : 1 Packing group (IMDG) Packing group (IATA) : 1 Packing group (ADN) : 1 Packing group (RID)

#### 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

: TC3 Classification code (ADR) Special provision (ADR) : 354 Limited quantities (ADR) : 0 : E0 Excepted quantities (ADR) Packing instructions (ADR) : P602 Mixed packing provisions (ADR) : MP8, MP17 : T20

Portable tank and bulk container

instructions (ADR)

Portable tank and bulk container special

provisions (ADR)

Tank code (ADR) : L10CH

Tank special provisions (ADR) : TU14, TU15, TE19, TE21

: AT Vehicle for tank carriage Transport category (ADR)

Special provisions for carriage - Loading,

unloading and handling (ADR)

Special provisions for carriage - Operation : S9, S14

(ADR)

Hazard identification number (Kemler No.)

Orange plates

: CV1, CV13, CV28

: TP2, TP37

X668

1810

Tunnel restriction code (ADR) : C/D : 4WE EAC code APP code : B

# - Transport by sea

Special provision (IMDG) : 354 : 0 Limited quantities (IMDG) Excepted quantities (IMDG) : E0 : P602 Packing instructions (IMDG) Tank instructions (IMDG) : T20

Tank special provisions (IMDG) : TP2, TP13, TP37

: F-A EmS-No. (Fire)

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

# - Air transport

PCA Limited quantities (IATA) : Forbidden PCA limited quantity max net quantity : Forbidden

(IATA)

PCA packing instructions (IATA) : Forbidden PCA max net quantity (IATA) : Forbidden CAO packing instructions (IATA) : Forbidden CAO max net quantity (IATA) : Forbidden

Special provision (IATA) : A2 ERG code (IATA) : 6C

# - Inland waterway transport

: TC3 Classification code (ADN) : 354 Special provisions (ADN) Limited quantities (ADN) : 0 : E0 Excepted quantities (ADN)

Equipment required (ADN) : PP, EP, TOX, A

Ventilation (ADN) : VE02 Number of blue cones/lights (ADN) : 2

# - Rail transport

: TC3 Classification code (RID) Special provision (RID) : 354 Limited quantities (RID) : 0 Excepted quantities (RID) : E0 Packing instructions (RID) : P602 Mixed packing provisions (RID) : MP8. MP17 : T20

Portable tank and bulk container

instructions (RID)

Portable tank and bulk container special : TP2, TP37

provisions (RID)

Tank codes for RID tanks (RID) : L10CH

Special provisions for RID tanks (RID) : TU14, TU15, TU38, TE21, TE22

Transport category (RID) : 1

Special provisions for carriage - Loading

and unloading (RID)

: CW13, CW28, CW31

Hazard identification number (RID) : X668

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

Not applicable

# SECTION 15: Regulatory information

#### Safety, health and environmental regulations/legislation specific for the substance or mixture 15.1.

# 15.1.1. EU-Regulations

# No REACH Annex XVII restrictions

PHOSPHORUS OXYCHLORIDE Extra Pure is not on the REACH Candidate List PHOSPHORUS OXYCHLORIDE Extra Pure is not on the REACH Annex XIV List

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# 15.1.2. National regulations

# Germany

AwSV/VwVwS Annex reference : Water hazard class (WGK) 1, slightly hazardous to water (Classification according to

VwVwS, Annex 3; WGK No 5171)

12th Ordinance Implementing the Federal

Immission Control Act - 12.BImSchV

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

#### **Denmark**

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-phrases:

Tull text of it-, it- and corr-philases.	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H372	Causes damage to organs through prolonged or repeated exposure
R14	Reacts violently with water
R22	Harmful if swallowed
R26	Very toxic by inhalation
R35	Causes severe burns
R48/23	Toxic: danger of serious damage to health by prolonged exposure through inhalation
С	Corrosive
Т	Toxic
T+	Very toxic
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

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