CAS-No.: 7719-12-2 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. : 7719-12-2 Product code : 05262

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), H300

Category 1

Acute toxicity (inhal.), H330

Category 2

Skin corrosion/irritation, H314

Category 1A

Specific target organ H373

toxicity — Repeated exposure, Category 2

Full text of H statements : see section 16

www.lobachemie.com 07/01/2019 1/10

Safety Data Sheet

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

T+; R26/28 Xn; R48/20 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

GHS06 GHS08

Signal word (CLP) : Danger

Hazard statements (CLP) : H300+H330 - Fatal if swallowed or if inhaled

H314 - Causes severe skin burns and eye damage.

H373 - May cause damage to organs through prolonged or repeated exposure.

Precautionary statements (CLP) : P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

P264 - Wash hands, forearms and face thoroughly after handling.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P284 - Wear respiratory 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.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Name	Product identifier	%
PHOSPHORUS TRICHLORIDE FOR SYNTHESIS	(CAS-No.) 7719-12-2	100

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

3.2. Mixtures

Not applicable

www.lobachemie.com 07/01/2019 2/10

Safety Data Sheet

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. Immediately call a

POISON CENTER/doctor.

First-aid measures after skin contact : Take off immediately all contaminated clothing. Rinse skin with water/shower.

Immediately call a POISON CENTER/doctor.

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/doctor.

First-aid measures after ingestion : Rinse mouth. Immediately call a POISON CENTER/doctor. Specific treatment (see

supplemental first aid instruction on this label). Do NOT induce vomiting.

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

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

Symptoms/effects 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 : Dry powder.

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. Avoid breathing dust/fume/gas/mist/vapours/spray.

Hygiene measures : Wash hands, forearms and face thoroughly after handling. Do not eat, drink or

smoke when using this product.

www.lobachemie.com 07/01/2019 3/10

Safety Data Sheet

7.2. Conditions for safe storage, including any incompatibilities

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 : [In case of inadequate ventilation] wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Molecular mass : 137.33 g/mol Colour : Clear Colorless.

Odour : pungent, irritating odor.

Odour threshold : No data available

pH : 1

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

Melting point : -112 °C

Freezing point : No data available

Boiling point : 74 - 78

Flash point : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Flammability (solid, gas) : No data available

Vapour pressure : 131 hPa at 20 °C

Relative vapour density at 20 °C : 4.74

Relative density : No data available

Density : 1.57 g/cm³

www.lobachemie.com 07/01/2019 4/10

Safety Data Sheet

Solubility : Water: Decomposes exothermically in 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 : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts violently with water.

10.2. Chemical stability

Stable under normal conditions.

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

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Oral: Fatal if swallowed. Inhalation: Fatal if inhaled.

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

pH: 1

Serious eye damage/irritation : Serious eye damage, category 1, implicit

pH: 1

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

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

STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.

www.lobachemie.com 07/01/2019 5/10

Safety Data Sheet

Aspiration hazard : Not classified

Potential adverse human health effects

and symptoms

: Fatal 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 hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Additional information

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

Ecology - waste materials

: Hazardous waste due to toxicity.

SECTION 14: Transport information

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

14.1. UN number

UN-No. (ADR) : 1809 UN-No. (IMDG) : 1809 UN-No. (IATA) : 1809 UN-No. (ADN) : 1809 UN-No. (RID) : 1809

14.2. UN proper shipping name

Proper Shipping Name (ADR) : PHOSPHORUS TRICHLORIDE Proper Shipping Name (IMDG) : PHOSPHORUS TRICHLORIDE

Proper Shipping Name (IATA) : Phosphorus trichloride

www.lobachemie.com 07/01/2019 6/10

Safety Data Sheet

Proper Shipping Name (ADN) : PHOSPHORUS TRICHLORIDE Proper Shipping Name (RID) : PHOSPHORUS TRICHLORIDE

Transport document description (ADR) : UN 1809 PHOSPHORUS TRICHLORIDE, 6.1 (8), I, (C/D) Transport document description (IMDG) : UN 1809 PHOSPHORUS TRICHLORIDE, 6.1 (8), I

Transport document description (IATA) : UN 1809 Phosphorus trichloride, 6.1, I

Transport document description (ADN) : UN 1809 PHOSPHORUS TRICHLORIDE, 6.1 (8), I Transport document description (RID) : UN 1809 PHOSPHORUS TRICHLORIDE, 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)

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) : I
Packing group (IMDG) : I
Packing group (IATA) : I
Packing group (ADN) : I

www.lobachemie.com 07/01/2019 7/10

Safety Data Sheet

Packing group (RID) : 1

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) : TC3 : 354 Special provisions (ADR) Limited quantities (ADR) : 0 Excepted quantities (ADR) : E0 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)

: TP2, TP35

Tank code (ADR) : L10CH

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

Vehicle for tank carriage : AT Transport category (ADR)

Special provisions for carriage - Loading,

unloading and handling (ADR)

: CV1, CV13, CV28

Special provisions for carriage - Operation

(ADR)

: S9, S14

Hazard identification number (Kemler No.)

Orange plates

668 1809

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

- Transport by sea

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

Tank special provisions (IMDG) : TP2, TP13, TP35

EmS-No. (Fire) : F-A : S-B EmS-No. (Spillage) Stowage category (IMDG) : D Stowage and handling (IMDG) : SW2 MFAG-No : 137

- Air transport

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

(IATA)

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

www.lobachemie.com 07/01/2019 8/10

Safety Data Sheet

: Forbidden CAO packing instructions (IATA) CAO max net quantity (IATA) : Forbidden ERG code (IATA) : 6CW

- Inland waterway transport

: TC3 Classification code (ADN) Special provisions (ADN) : 354, 802 Limited quantities (ADN) : 0

Excepted quantities (ADN) : E0

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

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

- Rail transport

Classification code (RID) : TC3 : 354 Special provisions (RID) : 0 Limited quantities (RID) 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

provisions (RID)

: TP2, TP35

Tank codes for RID tanks (RID) : I 10CH

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

Transport category (RID)

Special provisions for carriage - Loading,

unloading and handling (RID)

: CW13, CW28, CW31

Hazard identification number (RID) : 668

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

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

PHOSPHORUS TRICHLORIDE FOR SYNTHESIS is not on the REACH Candidate List PHOSPHORUS TRICHLORIDE FOR SYNTHESIS is not on the REACH Annex XIV List

15.1.2. National regulations

Germany

Reference to AwSV : Water hazard class (WGK) 1, Slightly hazardous to water (Classification according to

AwSV; ID No. 1245)

12th Ordinance Implementing the Federal

Immission Control Act - 12.BImSchV

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

www.lobachemie.com 07/01/2019 9/10

Safety Data Sheet

Netherlands

SZW-lijst van kankerverwekkende stoffen : The substance is not listed SZW-lijst van mutagene stoffen : The substance is not listed NIET-limitatieve lijst van voor de : The substance is not listed

voortplanting giftige stoffen - Borstvoeding

NIET-limitatieve lijst van voor de

: The substance is not listed

voortplanting giftige stoffen -

Vruchtbaarheid

NIET-limitatieve lijst van voor de

voortplanting giftige stoffen - Ontwikkeling

: The substance is not listed

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

Chemical safety assessment

No additional information available

SECTION 16: Other information

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

Tail text of the first and both statements.	
Acute Tox. 1 (Oral)	Acute toxicity (oral), Category 1
Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
H300	Fatal if swallowed.
H314	Causes severe skin burns and eye damage.
H330	Fatal if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
R14	Reacts violently with water
R26/28	Very toxic by inhalation and if swallowed
R35	Causes severe burns
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation
С	Corrosive
T+	Very toxic
Xn	Harmful
7(1)	Tarria

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

www.lobachemie.com 07/01/2019 10/10