TETRACHLOROPHTHALIC ANHYDRIDE EXTRA PURE MSDS

CAS No: 117-08-4 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 : 117-08-4
Product code : 6218D

Chemical structure

Synonyms : 4,5,6,7-Tetrachloro-1,3-isobenzofurandione

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]

Serious eye damage/eye H318

irritation, Category 1

Sensitisation — H334

Respiratory, category 1 Sensitisation — Skin, H317

category 1

Carcinogenicity, Category H350

1 /

Specific target organ H373

toxicity — Repeated

www.lobachemie.com 09/04/2015 1/11

Safety Data Sheet

exposure, Category 2
Hazardous to the aquatic H410
environment — Chronic
Hazard, Category 1

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

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

Carc.Cat.1; R45 Xn; R48/22 R42 Xi; R41 R43 N; R50/53

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

GHS08

GHS09

Signal word (CLP) : Danger

Hazard statements (CLP) : H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

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

H350 - May cause cancer

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

H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (CLP) : P201 - Obtain special instructions before use

P273 - Avoid release to the environment

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

P284 - [In case of inadequate ventilation] wear respiratory 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

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray P308+P313 - IF exposed or concerned: Get medical advice/attention

2.3. Other hazards

No additional information available

www.lobachemie.com 09/04/2015 2/11

Safety Data Sheet

SECTION 3: Composition/information on ingredients

3.1. Substance

Name : TETRACHLOROPHTHALIC ANHYDRIDE Extra Pure

CAS No : 117-08-4

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

3.2. Mixture

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position

comfortable for breathing. If experiencing respiratory symptoms: Call a POISON

CENTER or doctor/physician.

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

advice/attention. Specific treatment (see ... on this label). Wash contaminated

clothing before reuse.

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 out with water. If you feel unwell, seek medical advice.

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

Symptoms/injuries : May cause damage to organs through prolonged or repeated exposure.

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

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

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

Chronic symptoms : May cause cancer.

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 a heavy water stream.

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.

www.lobachemie.com 09/04/2015 3/11

Safety Data Sheet

6.2. Environmental precautions

Very toxic to aquatic life with long lasting effects.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Clear up rapidly by scoop or vacuum.

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

Hygiene measures : Wash ... thoroughly after handling. Contaminated work clothing should not be

allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in original container. Keep container tightly closed. Store in a dry place.

Protect from moisture.

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 safety glasses
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 : Solid

Molecular mass : 285.9 g/mol Colour : White crystal.

Odour : No data available

Odour threshold : No data available

pH : No data available

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

Melting point : 253 - 257

Freezing point : No data available

www.lobachemie.com 09/04/2015 4/11

Safety Data Sheet

Boiling point : 371 °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 : 0.16 mm Hg at 145 °C

Relative vapour density at 20 °C : No data available

Relative density : No data available

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

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. Air contact. Moisture.

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 : Not classified

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Causes serious eye damage.

www.lobachemie.com 09/04/2015 5/11

Safety Data Sheet

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

cause an allergic skin reaction.

Germ cell mutagenicity

Carcinogenicity

: Not classified : May cause cancer.

Reproductive toxicity

exposure)

Specific target organ toxicity (single

: Not classified : Not classified

Specific target organ toxicity (repeated

exposure)

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

: Not classified Aspiration hazard

SECTION 12: Ecological information

Toxicity 12.1.

Ecology - water : Very toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

TETRACHI (OROPHTHALIC	ANHYDRIDE Extra	2 Pure (117-08-4)

Persistence and degradability May cause long-term adverse effects in the environment.

12.3. **Bioaccumulative potential**

No additional information available

12.4. **Mobility in soil**

No additional information available

Results of PBT and vPvB assessment 12.5.

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 ...

SECTION 14: Transport information

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

www.lobachemie.com 09/04/2015 6/11

Safety Data Sheet

14.1. UN number

UN-No. (ADR) : 3077 UN-No. (IMDG) : 3077 UN-No.(IATA) : 3077 UN-No.(ADN) : 3077 UN-No. (RID) : 3077

14.2. UN proper shipping name

Proper Shipping Name (ADR) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Proper Shipping Name (IATA) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Proper Shipping Name (ADN) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Proper Shipping Name (RID) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Transport document description (ADR) : UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III,

(E)

Transport document description (IMDG) : UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III,

MARINE POLLUTANT

Transport document description (IATA) : UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III
Transport document description (RID) : UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III
: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 9
Danger labels (ADR) : 9



IMDG

Transport hazard class(es) (IMDG) : 9
Danger labels (IMDG) : 9



IATA

Transport hazard class(es) (IATA) : 9
Hazard labels (IATA) : 9



ADN

Transport hazard class(es) (ADN) : 9
Danger labels (ADN) : 9

www.lobachemie.com 09/04/2015 7/11

Safety Data Sheet



RID

Transport hazard class(es) (RID) : 9 : 9 Danger labels (RID)



Packing group 14.4.

Packing group (ADR) : III Packing group (IMDG) : 111 : 111 Packing group (IATA) Packing group (ADN) : 111 Packing group (RID) : III

Environmental hazards

: Yes Dangerous for the environment Marine pollutant : Yes

Other information : No supplementary information available

14.6. Special precautions for user

- Overland transport

Classification code (ADR) : M7

Special provision (ADR) : 274, 335, 601, 375

Limited quantities (ADR) : 5kg Excepted quantities (ADR) : E1

Packing instructions (ADR) : P002, IBC08, LP02, R001

Special packing provisions (ADR) : PP12, B3 Mixed packing provisions (ADR) : MP10 : T1, BK1, BK2

Portable tank and bulk container

instructions (ADR)

: TP33

Portable tank and bulk container special

provisions (ADR)

Tank code (ADR) : SGAV, LGBV

Vehicle for tank carriage : AT Transport category (ADR) : 3 Special provisions for carriage - Packages : V13

(ADR)

Special provisions for carriage - Bulk : VC1, VC2

(ADR)

Special provisions for carriage - Loading,

unloading and handling (ADR)

: CV13

Hazard identification number (Kemler No.)

Orange plates

90 3077

8/11 www.lobachemie.com 09/04/2015

Safety Data Sheet

Tunnel restriction code (ADR) : E EAC code : 2Z

- Transport by sea

Special provision (IMDG) : 274, 335, 966, 967, 969

Limited quantities (IMDG) : 5 kg
Excepted quantities (IMDG) : E1

Packing instructions (IMDG) : P002, LP02
Packing provisions (IMDG) : PP12
IBC packing instructions (IMDG) : IBC08
IBC special provisions (IMDG) : B3

Tank instructions (IMDG) : T1, BK1, BK2, BK3

Tank special provisions (IMDG) : TP33

EmS-No. (Fire) : F-A

EmS-No. (Spillage) : S-F

Stowage category (IMDG) : A

Stowage and handling (IMDG) : SW23

MFAG-No : 171

- Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y956
PCA limited quantity max net quantity : 30kgG

(IATA)

PCA packing instructions (IATA) : 956
PCA max net quantity (IATA) : 400kg
CAO packing instructions (IATA) : 956
CAO max net quantity (IATA) : 400kg

Special provision (IATA) : A97, A158, A179, A197

ERG code (IATA) : 9L

- Inland waterway transport

Classification code (ADN) : M7

Special provisions (ADN) : 274, 335, 375, 601

Limited quantities (ADN) : 5 kg
Excepted quantities (ADN) : E1
Carriage permitted (ADN) : T* B**
Equipment required (ADN) : PP, A
Number of blue cones/lights (ADN) : 0

- Rail transport

Classification code (RID) : M7

Special provision (RID) : 274, 335, 375, 601

Limited quantities (RID) : 5kg
Excepted quantities (RID) : E1

Packing instructions (RID) : P002, IBC08, LP02, R001

Special packing provisions (RID) : PP12, B3

Mixed packing provisions (RID) : MP10

Portable tank and bulk container : T1, BK1, BK2

instructions (RID)

Portable tank and bulk container special

provisions (RID)

: TP33

Tank codes for RID tanks (RID) : SGAV, LGBV

Transport category (RID) : 3
Special provisions for carriage – Packages : W13

(RID)

www.lobachemie.com 09/04/2015 9/11

Safety Data Sheet

Special provisions for carriage – Bulk

(RID)

Special provisions for carriage - Loading

and unloading (RID)

: CW13, CW31

: VC1, VC2

Colis express (express parcels) (RID) : CE11
Hazard identification number (RID) : 90

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

TETRACHLOROPHTHALIC ANHYDRIDE Extra Pure is not on the REACH Candidate List TETRACHLOROPHTHALIC ANHYDRIDE Extra Pure is not on the REACH Annex XIV List

15.1.2. National regulations

Germany

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV

12th Ordinance Implementing the Federal : 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

The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

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

Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Carc. 1A	Carcinogenicity, Category 1A
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Resp. Sens. 1	Sensitisation — Respiratory, category 1

www.lobachemie.com 09/04/2015 10/11

Safety Data Sheet

Skin Sens. 1	Sensitisation — Skin, category 1	
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2	
H317	May cause an allergic skin reaction	
H318	Causes serious eye damage	
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled	
H350	May cause cancer	
H373	May cause damage to organs through prolonged or repeated exposure	
H410	Very toxic to aquatic life with long lasting effects	
R41	Risk of serious damage to eyes	
R42	May cause sensitization by inhalation	
R43	May cause sensitisation by skin contact	
R45	May cause cancer	
R48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed	
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment	
N	Dangerous for the environment	
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

www.lobachemie.com 09/04/2015 11/11