

m-PHENYLENEDIAMINE DIHYDROCHLORIDE EXTRA PURE

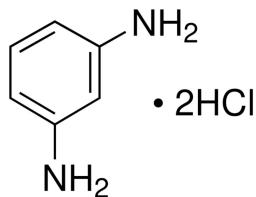
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□□ (EU) 2020/878 □□ □□ REACH □□ (EC) 1907/2006 □□ □□

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1.1. □□□□

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□□ □□	:	m-PHENYLENEDIAMINE DIHYDROCHLORIDE EXTRA PURE
EC □□ □□	:	612-148-00-9
EC □□	:	208-790-0
CAS □□	:	541-69-5
□□ □□	:	5208D
□□ □□	:	Amines
□□ □□	:	C6H8N2.2HCl
□□ □□	:	



□□ □□ : 1,3-Benzenediamine hydrochloride

1.2. □□□□ □□ □□□□ □□ □□ □□ □□

□□ □□ □□	:	Laboratory chemicals
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1.3. □□□□□□□□ □□□□ □□

LOBA CHEMIE PVT.LTD.
107 Wode House Road, Jehangir Villa, Colaba
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info@lobachemie.com, www.lobachemie.com

1.4. □□□□□□

□□ □□ □□ : + 91 22 6663 6663 (9:00am - 6:00 pm)

□□ 2: □□□·□□□

2.1. □□□·□□□□ □□

Regulation (EC) No.1272/2008 [CLP] □□ □□ □□

□□ □□ (□□), □□ 3	H301
□□ □□ (□□), □□ 3	H311
□□ □□ (□□: □□,□□□) □□ 3	H331
□□ □ □□□/□ □□□, □□ 2	H319
□□ □□□, □□ 1	H317
□□□□ □□□□, □□ 2	H341
□□□□ □□□ - □□, □□ 1	H400
□□□□ □□□ - □□, □□ 1	H410
□□(H) □□ □ EUH □□ □□: 16□ □□.	

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□□ (EU) 2020/878 □□ □□ □□ REACH □□ (EC) 1907/2006 □□ □□

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□□ (EC) No. 1272/2008 □□ □□ □□ [CLP]

□□ □□ □□□□ (CLP)



GHS06 GHS08 GHS09

□□□ (CLP)

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□□·□□ □□ (CLP)

: H301+H311+H331 - □□□□, □□□ □□□□ □□□□ □□□□□.
 H317 - □□□□□ □□ □□□ □□□ □□□.
 H319 - □□ □□ □□□ □□□.
 H341 - □□□□ □□□ □□□ □□□ □□□.
 H410 - □□□ □□□ □□ □□□□□□ □□ □□□.

□□ □□ □□ (CLP)

: P273 - □□□□ □□□□ □□□.
 P280 - □□□□, □□□, □□□, □□□□□ □(□) □□□□□.
 P301+P310 - □□□□ □□ □□ □□ □□ □□ □□ □(□) □□□□□.
 P302+P352 - □□□ □□□ □□□ □□ □□□□□.
 P304+P340 - □□□□ □□□ □□□ □□ □□□ □□□□ □□ □□□ □□□□□.
 P305+P351+P338 - □□ □□□□: □ □□ □□ □□□□ □□□□□. □□□□ □□□ □□□□□□□. □□ □□□.

2.3. □□ □□

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□□ 3: □□□□□ □□ □□□□

3.1. □□□□

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m-PHENYLENEDIAMINE DIHYDROCHLORIDE	CAS □□: 541-69-5 EC □□: 208-790-0 EC □□ □□: 612-148-00-9	100

□□ 4: □□□□□□

4.1. □□□□ □□

□□ □□ □□ : Call a physician immediately.
 □□□□ □ : □□□ □□□ □□ □□□ □□□□ □□ □□□ □□□□□. Call a doctor.
 □□□ □□□□ □ : Wash skin with plenty of water. □□□ □□ □□□ □□ □□□□. □□ □□ □□ □□□ □□□□: □□□□ □□/□□□ □□□□.
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 □□□ □ : □□ □□□□□. Call a physician immediately.
 Self protection of the first-aider : □□□□ □□□□ □□ □□ □□ □□□ □□□□ □□□.

4.2. □□ □□□□ □□ □□□□ □□ □□□

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 □ □□ □ □□/□□ : Eye irritation.
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m-PHENYLENEDIAMINE DIHYDROCHLORIDE EXTRA PURE

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7.2. □□□□ □□□□ □□□□ □□ □□

□□□□ □□ : Keep in a cool, well-ventilated place away from heat.
□□ □□ : □□□□□ □□ □□□□□. □□□ □ □□ □□ □□□□□. □□□□ □□□□□□□.
□□□□ : Store always product in container of same material as original container.

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7.3. □□ □□ □□

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8.1. □□ □□ □□

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8.2. □□□□

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□□□□ □□□□ :
Ensure good ventilation of the work station.

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□□ □□□□ :
Wear recommended personal protective equipment.
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□ □ □ □ :
Chemical goggles or safety glasses

Skin protection

□□ □□ :
Wear a mask

□ □ □ □ :
Protective gloves

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□□□□ □□□□ :
Wear appropriate mask

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□□ 9: □□□□□ □□

9.1. □□□□□ □□□□□ □□□□ □□ □□

□□□□ □□ : □□
□□ : almost white to beige.
□□ : Crystalline powder.
□□□□ : 181.07 g/mol
□□ : Odourless.
□□ □□ : □□□□

m-PHENYLENEDIAMINE DIHYDROCHLORIDE EXTRA PURE

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pH	: □□□□
pH □□	: □□□□
□□(□□□)	: □□□□
□□□	: □: Freely soluble in water □□□: Soluble in Ethanol
Partition coefficient n-octanol/water (Log Kow)	: □□□□
□□□	: □□□□
50°C □□□□ □□□□	: □□□□
□□	: □□□□
□□	: □□□□
20°C □□□□ □□ □□ □□	: □□□□
Particle size	: □□□□

9.2. □□□ □□□□□

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□□ 10: □□□ □□□□

10.1. □□□

The product is non-reactive under normal conditions of use, storage and transport.

10.2. □□□ □□□

Stable under normal conditions.

10.3. □□ □□□ □□□

No dangerous reactions known under normal conditions of use.

10.4. □□□ □□□

None under recommended storage and handling conditions (see section 7).

10.5. □□□ □□□

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10.6. □□□ □□□□ □□□□

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

□□ 11: □□□ □□□□

11.1. □□ (EC) No 1272/2008 □□□□, □□□ □□□□ □□ □□

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m-PHENYLENEDIAMINE DIHYDROCHLORIDE EXTRA PURE

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m-PHENYLENEDIAMINE DIHYDROCHLORIDE EXTRA PURE (541-69-5)	
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11.2. □□ □□ □□

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12.1. □□

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12.2. □□□ □□ □□□

m-PHENYLENEDIAMINE DIHYDROCHLORIDE EXTRA PURE (541-69-5)	
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12.3. □□ □□□

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12.4. □□ □□□

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12.5. PBT □ vPvB □□ □□

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12.6. □□□ □□ □□

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12.7. □□ □□ □□

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□□ 13: □□□ □□□ □□

13.1. □□□ □□□

□□ □□(□□□) : Disposal must be done according to official regulations.
□□□ □□□ : Dispose of contents/container in accordance with licensed collector's sorting instructions.
□□ □□ □□ □□ : Disposal must be done according to official regulations.
□□/□□ □□ □□□□ : Comply with applicable regulations for solid waste disposal. Disposal must be done according to official regulations.
□□ □□ : Do not re-use empty containers.

□□ 14: □□□ □□□ □□

ADR / IMDG / IATA / ADN / RID □□ □□

14.1. UN □□ □□ ID □□

UN-□□ (ADR) : UN 2811

m-PHENYLENEDIAMINE DIHYDROCHLORIDE EXTRA PURE

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□□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□

UN-□□ (IMDG) : UN 2811
UN-□□ (IATA) : UN 2811
UN-□□ (ADN) : UN 2811
UN-□□ (RID) : UN 2811

14.2. UN □□ □□□

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□□ □□□ (IMDG) : TOXIC SOLID, ORGANIC, N.O.S.
□□ □□□ (IATA) : Toxic solid, organic, n.o.s.
□□ □□□ (ADN) : □□ □□, □□□, □□ □□□ □□□ □□ □
□□ □□□ (RID) : □□ □□, □□□, □□ □□□ □□□ □□ □
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Transport document description (IMDG) : UN 2811 TOXIC SOLID, ORGANIC, N.O.S., 6.1, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
Transport document description (IATA) : UN 2811 Toxic solid, organic, n.o.s. (m-PHENYLENEDIAMINE DIHYDROCHLORIDE), 6.1, III, ENVIRONMENTALLY HAZARDOUS
Transport document description (ADN) : UN 2811 □□ □□, □□□, □□ □□□ □□□ □□ □, 6.1, III, □□□ □□
Transport document description (RID) : UN 2811 □□ □□, □□□, □□ □□□ □□□ □□ □, 6.1, III, □□□ □□

14.3. □□□□□ □□□ □□

ADR

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□□ □□ (ADR) : 6.1



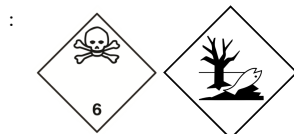
IMDG

□□□□□ □□□ □□ (IMDG) : 6.1
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IATA

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ADN

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RID

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□□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□



14.4. □□□□

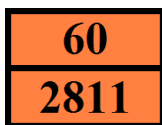
□□ □□ (ADR) : III
 □□ □□(IMDG) : III
 □□ □□ (IATA) : III
 □□ □□(ADN) : III
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14.5. □□ □□□

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 EmS-No. (□□) : F-A
 EmS-No. (□□) : S-A
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14.6. □□□□ □□ □□ □□□□

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 □□ □□ (ADR) : T2
 □□ □□(ADR) : 274, 614
 □□□(ADR) : 5kg
 □□□(ADR) : E1
 □□ □□(ADR) : P002, IBC08, LP02, R001
 □□ □□ (ADR) : B3
 □□ □□ □□ □□ □□(ADR) : MP10
 □□□ □□ □ □□ □□□□ □□ (ADR) : T1
 □□□ □□ □ □□ □□□□ □□ □□ (ADR) : TP33
 □□ □□(ADR) : SGAH, L4BH
 □□ □□ □□(ADR) : TU15, TE19
 □□ □□□□ □□ : AT
 □□ □□(ADR) : 2
 □□ □□ □□ □□ - □□ □□(ADR) : VC1, VC2, AP7
 □□ □□ □□ □□ - □□, □□ □ □□□(ADR) : CV13, CV28
 □□ □□ □□ □□ - □□□(ADR) : S9
 □□ □□ □□(Kemler □□) : 60
 Orange plates (□□□□□□) :



□□ □□ □□ (ADR) : E
 EAC □□ : 2X

□□ □□ :
 □□ □□ (IMDG) : 223, 274
 □□ □□(IMDG) : 5 kg
 □□□(IMDG) : E1
 □□ □□ (IMDG) : P002
 IBC □□ □□(IMDG) : IBC08
 IBC □□ □□ (IMDG) : B3
 □□ □□ (IMDG) : T1
 □□ □□ □□ (IMDG) : TP33
 □□ □□ (IMDG) : A
 □□□ □□□□ (IMDG) : Toxic if swallowed, by skin contact or by inhalation.

□□ □□ :
 PCA □□ □□(IATA) : E1
 PCA □□ □□(IATA) : Y645

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□□ (EU) 2020/878 □□ □□ □□ REACH □□ (EC) 1907/2006 □□ □□

PCA □□ □□ □□ □□□(IATA) : 10kg
PCA □□ □□□(IATA) : 670
PCA □□ □□□□(IATA) : 100kg
CAO □□ □□□(IATA) : 677
CAO □□ □□□□(IATA) : 200kg
□□ □□□(IATA) : A3, A5
ERG □□□(IATA) : 6L

□□ □□ □□
□□ □□(ADN) : T2
□□ □□(ADN) : 274, 614, 802
□□□(ADN) : 5 kg
□□□(ADN) : E1
□□□□(ADN) : T
□□ □□(ADN) : PP, EP
□□ □□/□□□ □□(ADN) : 0

□□ □□
□□ □□(RID) : T2
□□ □□(RID) : 274, 614
□□ □□(RID) : 5kg
□□□(RID) : E1
□□ □□ (RID) : P002, IBC08, LP02, R001
□□ □□ (RID) : B3
□□ □□ □□ □□ □□(RID) : MP10
□□□ □□ □ □□ □□□□ □□ (RID) : T1
□□ □□ □□ □□ □□□□ □□ □□ (RID) : TP33
RID □□□ □□ □□(RID) : SGAH, L4BH
RID □□□ □□ □□(RID) : TU15
□□ □□(RID) : 2
□□ □□ □□ □□ - □□ □□(RID) : VC1, VC2, AP7
□□ □□ □□ □□ -□□, □□ □□ □□(RID) : CW13, CW28, CW31
□□ □□□ : CE11
□□□ □□ □□ (RID) : 60

14.7. □□□□□□(IMO) □□ □□ □□ □□ □□

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□□ 15: □□ □□□□

15.1. □□, □□ □ □□□ □□□□ □□□□ □□ □□□□ □□ □□ □□/□□

EU □□

REACH □□□ XVII (□□ □□)

REACH □□□ XVII □□□□ □□

REACH □□□ XIV (□□ □□)

REACH □□□ XIV (□□ □□) □□□□ □□

REACH □□ □□ □□ (SVHC)

REACH □□ □□ □□□ □□□□ □□

PIC □□ (□□□□□□)

PIC □□□ □□□□ □□ (□□ EU 649/2012)

POP □□ (□□□□ □□ □□□□)

POP □□□ □□□□ □□ (□□ EU 2019/1021)

Ozone Regulation (2024/590)

Not listed on the Ozone Depletion list (Regulation EU 2024/590)

m-PHENYLENEDIAMINE DIHYDROCHLORIDE EXTRA PURE

□□□□□□□□

□□ (EU) 2020/878 □□ □□ □□ REACH □□ (EC) 1907/2006 □□ □□

□□□□ □□(428/2009)

Not listed on the COUNCIL REGULATION (EC) of dual-use items.

□□ □□□□ □□ (2019/1148)

Not listed on the Explosives Precursors list (EU)

□□ □□□□ □□ (273/2004)

Not listed on the Drug Precursors list (EU)

□□ □□

□□

Employment restrictions

: □□ □□ □□□ (MuSchG) □□ □□ □□.
□□ □□□ □□□ (JArbSchG) □□ □□ □□.

WGK

: WGK 3, □□ □□ □□□ (Classification according to AwSV).

□□□□ □□ □□ (ChemVerbotsV)

: This product is subject to ChemVerbotsV Annex 2 Entry 1. The following requirements must be observed: authorization requirement (according to § 6 paragraph 1 sentence 1), basic requirements for carrying out the delivery (according to § 8 paragraph 1, 3 and 4), identification and documentation (according to § 9 paragraph 1 to 3) and exclusion of the shipping route (according to § 10).

□□ □□ □□(12. BImSchV)

: Is not listed in the Major Accidents Ordinance (12. BImSchV)

□□□□

SZW-lijst van kankerverwekkende stoffen

: □□□ □□□□ □□□□□.

SZW-lijst van mutagene stoffen

: □□□ □□□□ □□□□□.

SZW-lijst van reprotoxische stoffen – Borstvoeding

: □□□ □□□□ □□□□□.

SZW-lijst van reprotoxische stoffen – Vruchtbaarheid

: □□□ □□□□ □□□□□.

SZW-lijst van reprotoxische stoffen – Ontwikkeling

: □□□ □□□□ □□□□□.

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: Act of 25 February 2011 on chemical substances and their mixtures (J. o L. No. 63, item 322 as amended; consolidated text J. o L. 2019, item 1225).
Act of 14 December 2012 on waste (J. o L. 2013, item 322 as amended; consolidated text J. o L. 2020, item 797).
The announcement of Marshal of the Sejm of the Republic of Poland dated 19 October 2016 concerning the consolidated text announcement of the decree on the management of packaging and packaging waste (J. o L. 2016, item 1863 as amended).
Decree of the Minister of Environment of 14 December 2014 on the catalogue of waste (J. o L. 2014, item 1923).
Act of 19 August 2011 on the Carriage of Dangerous Goods (J. o L. 2011 No. 227, item 1367 as amended; consolidated text J. o L. 2020, item 154).
Regulation of the Minister of Family, Labour and Social Policy of 12 June 2018 on the highest permissible concentration and intensity of noxious agents for health at work environment (J. o L. item 1286 as amended).
The announcement of Minister of Health dated 9 September 2016 concerning the consolidated text announcement of the decree of the Minister of Health of 30 December 2004 on health and safety at work related to exposure to chemical agents at work (J. o L. of 16 September 2016, item 1488)
Regulation of the Minister of Health of 2 February 2011 on tests and measurements of the noxious agents for health at work environment (J. o L. No. 33, item 166 as amended).
Regulation of the Minister of Environment of 9 December 2003 on particularly hazardous substances to the environment (J. o L. No. 217, item 2141).
ADR Agreement: Government Statement of 13 March 2023 on the entry into force of amendments to Annexes A and B to the Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), signed in Geneva on 30 September 1957 (J. o. L. 2023, item 891)

□□□

Royal Decree 665/1997

: Is not subject to the Royal Decree 665/1997

15.2. □□ □□ □□□ □□

No chemical safety assessment has been carried out

m-PHENYLENEDIAMINE DIHYDROCHLORIDE EXTRA PURE

□□□□□□□□

□□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□

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ACGIH	American Conference of Government Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	□□ □□ □
BOD	Biochemical oxygen demand (BOD)
CAS □□	□□□□ □□ □□ □□(CAS)
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
COD	□□□ □□ □□□
CSA	□□ □□ □□□ □□
DMEL	Derived Minimal Effect level
DNEL	□□ □□□ □□
EC □□	□□ □□□ □□
EC50	Median effective concentration
ED	□□□ □□□□
EN	□□ □□
EWC	European waste catalogue
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
Log Kow	Partition coefficient n-octanol/water (Log Kow)
Log Pow	Partition coefficient n-octanol/water (Log Pow)
MAK	maximum workplace concentration
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
N.O.S.	Not Otherwise Specified
OECD	Organisation for Economic Co-operation and Development
OEL	□□□ □□ □□
OSHA	Occupational Safety & Health Administration
PBT	Persistent Bioaccumulative Toxic
PNEC	□□ □□□ □□
PPE	□□ □□□

