

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Issue date: 10-05-2022 Version: 1.0

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

1.1. Product identifier

Product form : Substance

BRUCINE DIHYDRATE EXTRA PURE Trade name

CAS-No. : 145428-94-0 Product code · 2370B

C23H26N2O4•2H2O Formula

Chemical structure

Synonyms : 10,11-Dimethoxystrychnine; 2,3-Dimethoxystrychnidin-10-one

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 : Laboratory chemicals

Manufacture of substances

1.2.2. Uses advised against

Use of the substance/mixture

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), Category 2 H300 Acute toxicity (inhalation:dust,mist) Category 1 H330 Hazardous to the aquatic environment — Chronic Hazard, Category 3 H412

Full text of H-statements: see section 16

Adverse physicochemical, human health and environmental effects

Fatal if inhaled. Fatal if swallowed. Harmful to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



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GHS06

Signal word (CLP) : Danger

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

H412 - Harmful to aquatic life with long lasting effects.

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

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

P273 - Avoid release to the environment.

P284 - In case of inadequate ventilation wear respiratory protection.

P301+P310 - IF SWALLOWED: Immediately call a doctor.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type : Mono-constituent

Name	Product identifier	%
BRUCINE DIHYDRATE	CAS-No.: 145428-94-0	100

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Call a physician immediately.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a physician

immediately.

First-aid measures after skin contact

First-aid measures after eye contact

First-aid measures after eye contact

First-aid measures after ingestion

First-aid measures after ingestion

First-aid measures after ingestion

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

No additional information available

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 : Water spray. Dry powder. Foam.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Do not breathe dust, fume, mist, gas, spray, vapours. Only qualified personnel equipped

with suitable protective equipment may intervene.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Do not

breathe dust, fume, gas, mist, spray, vapours.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

roduct.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

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8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):







8.2.2.1. Eye and face protection

Eye protection:

Safety glasses

8.2.2.2. Skin protection

No additional information available

8.2.2.3. Respiratory protection

Respiratory protection:

Wear appropriate mask. [In case of inadequate ventilation] wear respiratory protection.

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Powder. Crystals. Molecular mass : 430.5 g/mol

Colour : White to light brown (Beige).

Odour : No data available
Odour threshold : No data available
pH : No data available
Relative evaporation rate (butylacetate=1) : No data available
Melting point : 174 – 179 °C
Freezing point : Not applicable

Freezing point : Not applicable Boiling point : No data available : Not applicable Flash point : Not applicable Auto-ignition temperature : No data available Decomposition temperature Flammability (solid, gas) : Non flammable. Vapour pressure : No data available Relative vapour density at 20 °C : No data available : No data available Relative density Water: Slightly soluble Solubility

Ethanol: Soluble
Ether: Slightly soluble
: No data available

Partition coefficient n-octanol/water (Log Pow) : No data available
Viscosity, kinematic : Not applicable
Viscosity, dynamic : No data available
Explanity proportion : No data available

Explosive properties : No data available
Oxidising properties : No data available
: No data available

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Explosive limits : Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

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

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Fatal if swallowed. Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Fatal if inhaled. Skin corrosion/irritation : Not classified Serious eye damage/irritation : Not classified 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 : Not classified Aspiration hazard : Not classified

BRUCINE DIHYDRATE EXTRA PURE (145428-94-0)

Viscosity, kinematic Not applicable

SECTION 12: Ecological information

12.1. Toxicity

: Harmful to aquatic life with long lasting effects. Ecology - general

Hazardous to the aquatic environment, short-term

(acute)

: Not classified

Hazardous to the aquatic environment, long-term

: Harmful to aquatic life with long lasting effects.

(chronic)

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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

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

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

14.1. UN number

 UN-No. (ADR)
 : UN 1570

 UN-No. (IMDG)
 : UN 1570

 UN-No. (IATA)
 : UN 1570

 UN-No. (ADN)
 : UN 1570

 UN-No. (RID)
 : UN 1570

14.2. UN proper shipping name

Proper Shipping Name (ADR) : BRUCINE
Proper Shipping Name (IMDG) : BRUCINE
Proper Shipping Name (IATA) : Brucine
Proper Shipping Name (ADN) : BRUCINE
Proper Shipping Name (RID) : BRUCINE

Transport document description (ADR)

: UN 1570 BRUCINE, 6.1, I, (C/E)

Transport document description (IMDG)

: UN 1570 BRUCINE, 6.1, I

14.3. Transport hazard class(es)

ADR

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



IMDG

Transport hazard class(es) (IMDG) : 6.1

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Danger labels (IMDG) : 6.1

:



IATA

Transport hazard class(es) (IATA) : 6.1
Danger labels (IATA) : 6.1

:



ADN

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

:



RID

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

:



14.4. Packing group

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

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

Classification code (ADR) : T2
Special provisions (ADR) : 43
Limited quantities (ADR) : 0
Excepted quantities (ADR) : E5
Packing instructions (ADR) : P002, IBC07
Mixed packing provisions (ADR) : MP18
Portable tank and bulk container instructions (ADR) : T6
Portable tank and bulk container special provisions : TP33

(ADR)

Tank code (ADR) : S10AH, L10CH

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

Vehicle for tank carriage : AT
Transport category (ADR) : 1
Special provisions for carriage - Packages (ADR) : V10

Special provisions for carriage - Loading, unloading : CV1, CV13, CV28

and handling (ADR)

Special provisions for carriage - Operation (ADR) : S9, S14 Hazard identification number (Kemler No.) : 66

Orange plates :

66 1570

Tunnel restriction code (ADR) : C/E EAC code : 2X

Transport by sea

Special provisions (IMDG) : 43 Limited quantities (IMDG) : 0 Excepted quantities (IMDG) : E5 Packing instructions (IMDG) : P002 : IBC07 IBC packing instructions (IMDG) : B1 IBC special provisions (IMDG) : T6 Tank instructions (IMDG) : TP33 Tank special provisions (IMDG) EmS-No. (Fire) : F-A : S-A EmS-No. (Spillage) Stowage category (IMDG) : A

Properties and observations (IMDG) : White crystals or powder. Highly toxic if swallowed, by skin contact or by dust inhalation.

Air transport

PCA Excepted quantities (IATA) : E5 PCA Limited quantities (IATA) : Forbidden : Forbidden PCA limited quantity max net quantity (IATA) PCA packing instructions (IATA) : 666 PCA max net quantity (IATA) : 5kg : 673 CAO packing instructions (IATA) CAO max net quantity (IATA) : 50ka Special provisions (IATA) A6 ERG code (IATA) 6L

Inland waterway transport

Classification code (ADN) : T2
Special provisions (ADN) : 43, 802
Limited quantities (ADN) : 0
Excepted quantities (ADN) : E5
Equipment required (ADN) : PP, EP
Number of blue cones/lights (ADN) : 2

Rail transport

Classification code (RID) : T2
Special provisions (RID) : 43
Limited quantities (RID) : 0
Excepted quantities (RID) : E5

Packing instructions (RID) : P002, IBC07
Mixed packing provisions (RID) : MP18
Portable tank and bulk container instructions (RID) : T6
Portable tank and bulk container special provisions : TP33

(RID)

Tank codes for RID tanks (RID) : S10AH, L10CH

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

Transport category (RID) : 1 Special provisions for carriage – Packages (RID) : W10

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Special provisions for carriage - Loading, unloading : CW13, CW28, CW31

and handling (RID)

Hazard identification number (RID) : 66

14.7. Transport in bulk according to Annex II of Marpol 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

BRUCINE DIHYDRATE EXTRA PURE is not on the REACH Candidate List

BRUCINE DIHYDRATE EXTRA PURE is not on the REACH Annex XIV List

BRUCINE DIHYDRATE EXTRA PURE is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 july 2012 concerning the export and import of hazardous chemicals.

BRUCINE DIHYDRATE EXTRA PURE is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

Germany

Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG)

Observe restrictions according Act on the Protection of Young People in Employment

(JArbSchG)

Water hazard class (WGK) : Not classified according to Regulation Governing Systems for Handling Substances

Hazardous to Waters (AwSV)

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

Netherlands

SZW-lijst van kankerverwekkende stoffen

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

giftige stoffen – Borstvoeding

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen – Vruchtbaarheid

gillige stollen – vruchtbaarneid

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen – Ontwikkeling

: The substance is not listed

: The substance is not listed

: The substance is not listed

Denmark

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

Switzerland

Storage class (LK) : LK 6.1 - Toxic materials

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms		
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	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	

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Abbreviations and acr	Abbreviations and acronyms		
DMEL	Derived Minimal Effect level		
DNEL	Derived-No Effect Level		
EC-No.	European Community number		
EC50	Median effective concentration		
EN	European Standard		
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		
NOAEC	No-Observed Adverse Effect Concentration		
NOAEL	No-Observed Adverse Effect Level		
NOEC	No-Observed Effect Concentration		
OECD	Organisation for Economic Co-operation and Development		
OEL	Occupational Exposure Limit		
PBT	Persistent Bioaccumulative Toxic		
PNEC	Predicted No-Effect Concentration		
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail		
SDS	Safety Data Sheet		
STP	Sewage treatment plant		
ThOD	Theoretical oxygen demand (ThOD)		
TLM	Median Tolerance Limit		
VOC	Volatile Organic Compounds		
CAS-No.	Chemical Abstract Service number		
N.O.S.	Not Otherwise Specified		
vPvB	Very Persistent and Very Bioaccumulative		
ED	Endocrine disrupting properties		

Full text of H- and EUH-statements	
Acute Tox. 1 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 1
Acute Tox. 2 (Oral)	Acute toxicity (oral), Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
H300	Fatal if swallowed.
H330	Fatal if inhaled.
H412	Harmful to aquatic life with long lasting effects.

Safety Data Sheet (SDS), EU

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.