

Address: National industry, Pipodra GIDC, Surat-394110, Gujarat, India.

Email: cynorlaboratories@gmail.com Mobile No.: +91 8799070507

MATERIAL SAFETY DATA SHEET

Product Name	BISMUTH SUBNITRATE
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1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : BISMUTH SUBNITRATE

Product code :B0120

Identification of the product: BISMUTH SUBNITRATE

CAS No : 1304-85-4

1.2 Relevant identified uses of the substance or mixture and uses advised

againstUse: Industrial. For professional use only.

1.3 Details of the supplier of the safety data sheet

Company identification: CYNOR

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2. Hazards identification -DSD

2.1 Classification of the substance or mixture

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

Oxidising Solids, H272

Category 2

Skin corrosion/irritation, H315

Category 2

Serious eye damage/eye

irritation, H319

Category 2

Specific target organotoxicity —

Single exposure, H335

Category 3,

Respiratory tract irritation

Full text of H statements : see section 16

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

Adverse physicochemical, human health and environmental effects

No additional information available

2.2 Label element

Labelling according to Regulation (EC) No. 1272/2008 [CLP] Extra labelling to displayExtra classification(s) to display

Symbol(s) : O :

OxidizingXn: Harmful



R Phrase(s) : R8: Contact with combustible material may cause fire.

R36/37/38: Irritating to eyes, respiratory system and skin.

S Phrase(s) : S17: Keep away from combustible material.

S26: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advise.

S36: Wear suitable protective clothing.

Hazard pictograms



Signal word : Danger

Hazard statements : H272 - May intensify fire; oxidiser.

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H335 - May cause respiratory irritation.

Precautionary statements (CLP) : P220 - Keep/Store away from clothing, combustible materials.

P261 - Avoid breathing vapours, dust, fume, gas.

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

3. Composition/information on ingredients

Substances: BISMUTH SUBNITRATE LR

CAS-No. : 1304-85-4

Substance.

Contains no other components or impurities which will influence the classification of the product.

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. Call a POISON CENTER/doctor if you feel unwell.

First-aid measures after skin contact : Wash with plenty of water/.... Wash contaminated clothing before reuse. Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Get medical advice/attention.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation : May cause respiratory irritation.

Symptoms/effects after skin contact : Causes skin irritation.

Symptoms/effects after eye contact : Causes serious eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media : Carbon dioxide. Dry powder. Foam. Water spray.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2 Specific hazards arising from the substance or mixture



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Fire hazard : May intensify fire; oxidiser.

5.3 Advice for fire-fighters

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For emergency responders:

Protective equipment : Use personal protective equipment as required. Emergency procedures : Ventilate area

For non-emergency personnel:

Emergency procedure: Evacuate unnecessary personnel

6.2 Environmental precautions

Avoid release to the environment

6.3 Methods and material for containment and cleaning up

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

6.4 Reference to other sections

No additional information available

7. Handling and storage

7.1 Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Use only outdoors or in a well-ventilated area. Do not breathe vapours.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2 Conditions for safe storage, including any incompatibilities

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

7.3 Specific end use(s)

No additional information available

8. Exposure controls/personal protection

8.1 Control parameter

No additional information available

8.2 Exposure control

Hand protection : protective gloves

Eye protection : Chemical goggles or safety glasses

Skin and body protection : Wear suitable protective clothing

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

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Odour: No data available.

Odour threshold: No data available.

pH value: Not data available

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



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Melting point [°C]: 500° C

Freezing point: No data available

Boiling point: No data available

Flash point: No data available

Decomposition point [°C]: No data available

Auto-ignition temperature [°C]: No data available

Flammability (solid, gas): No data available

Vapour pressure: No data available

Relative pressure density at 20° C: No data available

Relative density: No data available

Density: 4.928 g/cm³

Solubility: Water: Insoluble 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

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

Moisture. Direct sunlight. Overheating

10.5 Incompatible materials

No additional information available

10.6 Hazardous decomposition products

No additional information available

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity : Not classified

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : May cause respiratory irritation.



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STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

12. Ecological information

12.1 Toxicity

No additional information available.

12.2 Persistence – 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

13. Disposal considerations

13.1 Waste treatment methods

No additional information available.

14. Transport information

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

14.1 UN number

UN-No. (ADR) : 1477

UN-No. (IMDG) : 1477

UN-No. (IATA) : 1477

UN-No. (ADN) : 1477

UN-No. (RID) : 1477

14.2 UN proper shipping name

Proper Shipping Name (ADR) : NITRATES, INORGANIC, N.O.S.

Proper Shipping Name (IMDG) : NITRATES, INORGANIC, N.O.S.

Proper Shipping Name (IATA) : Nitrates, inorganic, n.o.s.

Proper Shipping Name (ADN) : NITRATES, INORGANIC, N.O.S.

Proper Shipping Name (RID) : NITRATES, INORGANIC, N.O.S.

Transport document description (ADR) : UN 1477 NITRATES, INORGANIC, N.O.S.,5.1, II, (E)

Transport document description (IMDG) : UN 1477 NITRATES, INORGANIC, N.O.S.,5.1, II

Transport document description (IATA) : UN 1477 Nitrates, inorganic, n.o.s., 5.1, II

Transport document description (ADN) : UN 1477 NITRATES, INORGANIC, N.O.S.,5.1, II

Transport document description (RID) : UN 1477 NITRATES, INORGANIC, N.O.S.,5.1, II

14.3 Transport hazard class(es)

ADR- Transport hazard class(es) (ADR) : 5.1

Danger labels (ADR) : 5.1

IMDG- Transport hazard class(es) (IMDG) : 5.1

Danger labels (IMDG) : 5.1

IATA- Transport hazard class(es) (IATA) : 5.1



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Hazard labels (IATA) : 5.1

ADN- Transport hazard class(es) (ADN) : 5.1

Danger labels (ADN) : 5.1

RID- Transport hazard class(es) (RID) : 5.1

Danger labels (RID) : 5.1

14.4 Packing group

Packing group (ADR) : II

Packing group (IMDG) : II

Packing group (IATA) : II

Packing group (ADN) : II

Packing group (RID) : II

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) : O2

Special provisions (ADR) : 511

Limited quantities (ADR) : 1kg

Excepted quantities (ADR) : E2

Packing instructions (ADR) : P002, IBC08

Special packing provisions (ADR) : B4 Mixed

packing provisions (ADR) : MP10

Portable tank and bulk container instructions (ADR) : T3

Portable tank and bulk container special

provisions (ADR): TP33 Tank

code (ADR) : SGAN

Tank special provisions (ADR) : TU3

Vehicle for tank carriage : AT Transport

category (ADR) : 2

Special provisions for carriage – Packages (ADR): V11

Special provisions for carriage - Loading,

unloading and handling (ADR): CV24

Hazard identification number (Kemler No.) : 50

Orange plates :

Tunnel restriction code (ADR) : EEAC

code : 1Y

Transport by sea

Limited quantities (IMDG) : 1 kg

Excepted quantities (IMDG) : E2

Packing instructions (IMDG) : P002

IBC packing instructions (IMDG) : IBC08

IBC special provisions (IMDG) : B21, B4

Tank instructions (IMDG) : T3

Tank special provisions (IMDG) : TP33

EmS-No. (Fire) : F-A

EmS-No. (Spillage) : S-Q Stowage

category (IMDG) : A



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Segregation (IMDG) : SG38, SG49

Properties and observations (IMDG) : Solids. Solid mixtures with combustible material are readily ignited and may burn fiercely. Harmful if swallowed.

MFAG-No : 140

Air transport

PCA Excepted quantities (IATA) : E2

PCA Limited quantities (IATA) : Y544

PCA limited quantity max net quantity (IATA) : 2.5kg

PCA packing instructions (IATA) : 558

PCA max net quantity (IATA) : 5kg

CAO packing instructions (IATA) : 562

CAO max net quantity (IATA) : 25kg

Special provisions (IATA) : A3, A803

ERG code (IATA) : 5L

Inland waterway transport

Classification code (ADN) : O2

Special provisions (ADN) : 511

Limited quantities (ADN) : 1 kg

Excepted quantities (ADN) : E2

Equipment required (ADN) : PP

Number of blue cones/lights (ADN) : 0

Rail transport

Classification code (RID) : O2

Special provisions (RID) : 511

Excepted quantities (RID) : E2

Packing instructions (RID) : P002, IBC08

Special packing provisions (RID) : B4

Mixed packing provisions (RID) : MP10

Portable tank and bulk container instructions (RID) : T3

Portable tank and bulk container special provisions (RID) : TP33

Tank codes for RID tanks (RID) : SGAN

Special provisions for RID tanks (RID) : TU3

Transport category (RID) : 2

Special provisions for carriage – Packages (RID) : W11

Special provisions for carriage - Loading, unloading and handling (RID) : CW24

Colis express (express parcels) (RID) : CE10

Hazard identification number (RID) : 50

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

Not applicable

15. Regulatory information

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

15.1.1 EU-Regulations

Contains no REACH substances with Annex XVII restrictions



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Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2 National regulations

Germany

12th Ordinance Implementing the Federal

Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

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

voortplanting giftige stoffen – Borstvoeding : The substance is not listed

NIET-limitatieve lijst van voor de

voortplanting giftige stoffen – Vruchtbaarheid :

The substance is not listed

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

15.2 Chemical safety assessment

No additional information available

16. Other information

Abbreviations and acronyms : PBT: persistent, bioaccumulative and toxic.vPvB: very persistent and very bioaccumulative

Sources of key data used : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

Further information : None.

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Prepared by: CYNOR



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