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MATERIAL SAFETY DATA SHEET

Product Name	BARIUM PEROXIDE
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1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : BARIUM PEROXIDE

Product code : B0030

Identification of the product: BARIUM PEROXIDE

CAS No : 1304-29-6

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

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

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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

Acute toxicity (oral), H302

Category 4

Acute toxicity (inhal.), H332

Category 4

Full text of classification categories and H statements : see section

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

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2 Label element

Labelling EC 67/548 or EC 1999/45

Symbol(s) : O : Oxidizing

Xn : Harmful



Hazard pictograms



Signal word : Danger

Hazard statements : H272 - May intensify fire; oxidiserH302+H332 -

Harmful if swallowed or if inhaled

Precautionary statements : P220 - Keep/Store away from clothing, combustiblematerials

2.3 Other hazards

No additional information available

3. Composition/information on ingredients

Substance / Preparation: Barium Peroxide

CAS No : 1304-29-6

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 : Assure fresh air breathing. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

First-aid measures after skin contact : Get immediate medical advice/attention. Wash with plenty of soap and water.

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

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : Harmful if inhaled.

Symptoms/injuries after ingestion : Harmful if swallowed.

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 : Foam. Dry powder. Carbon dioxide. Water spray.

Unsuitable extinguishing media : Do not use a heavy water stream

5.2 Specific hazards arising from the substance or mixture

Fire hazard : May cause fire or explosion; strong oxidiser.

Explosion hazard : Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Hazardous decomposition products in case of fire :

Thermal decomposition generates : Toxic fumes may be released.

5.3 Advice for fire-fighters

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

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

General measures : No naked lights. No smoking.

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

For non-emergency personnel : 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

Additional hazards when processed : Hazardous waste due to potential risk of explosion.

Precautions for safe handling : Avoid contact with skin and eyes. Do not breathe vapours. Take precautionary measures against static discharge. Provide good ventilation in process area to prevent formation of vapour. Hygiene measures :

Do not eat, drink or smoke when using this product. 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

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Storage conditions : Keep in fireproof place. Keep container tightly closed.

Incompatible materials : Heat sources. Combustible materials.

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

Personal protective equipment : Wear fire/ flame resistant/retardant clothing. Hand protection : Protective gloves

Eye protection : Chemical goggles or safety glasses

Skin and body protection : Wear suitable protective clothing

Respiratory protection : Wear respiratory protection

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Odour threshold : No data available

pH : No data available

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

Melting point : 450 °C

Freezing point : No data available

Boiling point : 800 °C

Flash point : 21 °C

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Flammability (solid, gas) : No data available

Vapour pressure : No data available
Relative vapour density at 20 °C : No data available
Relative density : No data available
Density : 4.96 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 : May cause fire or explosion; strong oxidiser.
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

May cause fire or explosion; strong oxidiser.

10.3 Possibility of hazardous reactions

No additional information available

10.4 Conditions to avoid

Heat. Sparks. Open flame.

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 : Oral: Harmful if swallowed. Inhalation: Harmful 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
Specific target organ toxicity (single exposure) : Not classified
Specific target organ toxicity (repeated exposure) : Not classified
Aspiration hazard : Not classified
Potential adverse human health effects and symptoms : Harmful if swallowed.

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

Avoid release to the environment

13. Disposal considerations

13.1 Waste treatment methods

Product/Packaging disposal recommendations : Dispose of contents/container to ...

Additional information : Hazardous waste due to potential risk of explosion.

14. Transport information

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

14.1 UN number

UN-No. (ADR) : 1449 UN-

No. (IMDG) : 1449UN-

No.(IATA) : 1449

UN-No.(ADN) : 1449

UN-No. (RID) : 1449

14.2 UN proper shipping name

Proper Shipping Name (ADR) : BARIUM PEROXIDE Proper

Shipping Name (IMDG) : BARIUM PEROXIDE Proper

Shipping Name (IATA) : BARIUM PEROXIDE Proper

Shipping Name (ADN) : BARIUM PEROXIDE Proper

Shipping Name (RID) : BARIUM PEROXIDE

Transport document description (ADR) : UN 1449 BARIUM PEROXIDE, 5.1 (6.1), II,(E)

Transport document description (IMDG) : UN 1449 BARIUM PEROXIDE, 5.1 (6.1), II Transport

document description (IATA) : UN 1449 BARIUM PEROXIDE, 5.1, II Transport document

description (ADN) : UN 1449 BARIUM PEROXIDE, 5.1 (6.1), II Transport document

description (RID) : UN 1449 BARIUM PEROXIDE, 5.1 (6.1), II

14.3 Transport hazard class(es)

ADR : Transport hazard class(es) (ADR) : 5.1 (6.1)

Danger labels (ADR) : 5.1, 6.1

IMDG : Transport hazard class(es) (IMDG) : 5.1 (6.1) Danger

labels (IMDG) : 5.1, 6.1

IATA : Transport hazard class(es) (IATA) : 5.1 (6.1)

Hazard labels (IATA) : 5.1, 6.1

ADN : Transport hazard class(es) (ADN) : 5.1 (6.1)

Danger labels (ADN) : 5.1, 6.1

RID : Transport hazard class(es) (RID) : 5.1 (6.1)

Danger labels (RID) : 5.1, 6.1

14.4 Packing group Packing

group (ADR) : II Packing

group (IMDG) : IIPacking

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) : OT2 Limited quantities

(ADR) : 1kg Excepted quantities

(ADR) : E2

Packing instructions (ADR) : P002, IBC06

Mixed packing provisions (ADR) : MP2

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, CV28 Hazard

identification number (Kemler No.) : 56 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) : IBC06 IBC

special provisions (IMDG) : B2

Tank instructions (IMDG) : T3

Tank special provisions (IMDG) : TP33

EmS-No. (Fire) : F-G

EmS-No. (Spillage) : S-Q

Stowage category (IMDG) : C

Stowage and handling (IMDG) : H1

Segregation (IMDG) : SG16, SG35, SG59, SG26, SG36

MFAG-No : 141

- Air transport

PCA Excepted quantities (IATA) : E2

PCA Limited quantities (IATA) : Y543

PCA limited quantity max net quantity

(IATA) : 1kg



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PCA packing instructions (IATA) : 558

PCA max net quantity (IATA) : 5kg

CAO packing instructions (IATA) : 562

CAO max net quantity (IATA) : 25kg

ERG code (IATA) : 5P

- Inland waterway transport

Classification code (ADN) : OT2 Special

provisions (ADN) : 802 Limited quantities

(ADN) : 1 kg Excepted quantities (ADN) :

E2 Equipment required (ADN) : PP, EP

Number of blue cones/lights (ADN) : 2

- Rail transport

Classification code (RID) : OT2

Limited quantities (RID) : 1kg

Excepted quantities (RID) : E2

Packing instructions (RID) : P002, IBC06

Mixed packing provisions (RID) : MP2

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) : TU3Transport

category (RID) : 2

Special provisions for carriage – Packages

(RID) : W11

Special provisions for carriage – Loading and unloading (RID) : CW24, CW28Colis

express (express parcels) (RID) : CE10

Hazard identification number (RID) : 56

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

5.1.1. EU-Regulations

No REACH Annex XVII restrictions

Barium peroxide is not on the REACH Candidate List Barium

peroxide is not on the REACH Annex XIV List

5.1.2. National regulations

Germany

AwSV/VwVwS Annex reference : Water hazard class (WGK) 1, slightly hazardous to water

(Classification according to VwVwS, Annex 2; WGK No 307)

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

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

Denmark

Class for fire hazard : Class I-1

Store unit : 1 liter Classification remarks : F <Ox. Sol. 2>; Emergency management



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guidelines for the storage of flammable liquids must be followed
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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