

Safety Data Sheet

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Revision Date: 07.09.2022 Version 2

TEKKİM

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

1.1 Product identifier

Catalog No. TK.201797.00000
Product Name Barium nitrate
Cas no 10022-31-8

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

1.2.1. Relevant identified uses

Use as a laboratory reagent.

1.2.2. Uses advised against

No information available.

1.3. Details of the supplier of the safety data sheet

Name TEKKİM KİMYA SAN. TİC. LTD. ŞTİ.
Street ORGANİZE SAN. BÖL. MAVİ CAD. 8. SOK. NO :1 NİLÜFER / BURSA
Telephone 0224 243 21 71
E-mail erhan@tekkim.com.tr
Company Representative Erhan DİLER

1.4 Emergency Telephone Number +90 506 990 36 86

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Oxidizing solids, Category 2
Acute toxicity, Oral, Category 3
Acute toxicity, By inhalation, Category 4
Eye irritation, Category 2

For the full text of the H and EUH statements referred to in this section, see section 16.

2.2 Label elements

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

Hazard pictograms



Signal word (SEA)

DANGER

Hazard Statements (SEA)

H272 May intensify fire; oxidizer.
H301 Toxic if swallowed.
H319 Causes serious eye irritation.
H332 Harmful by inhalation.

Precautionary Statements (SEA)



Tekkim is accredited to
ISO 9001:2015 and ISO 14001:2015

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Prevention

- P210 Keep away from heat/sparks/open flames/hot surfaces. -No smoking.
P220 Keep/Store away from clothing /.../combustible materials.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

Intervention

- P301+P310 IF SWALLOWED: Call a NATIONAL POISON CENTER or doctor/physician.
P304+P340 IF INHALED: Move victim to fresh air and keep in a position comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if fitted and easy to do. Continue rinsing.

SECTION 3: Composition/information on ingredients

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

3.1 Maddeler

| | |
|---------------|--------------|
| EC No | 233-020-5 |
| Molar mass | 261.34 g/mol |
| Cas No | 10022-31-8 |
| Concentration | (<= 100 %) |

SECTION 4: First aid measures

4.1 Description of first aid measures

| | |
|-------------------------------|--|
| <i>General information</i> | In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). |
| <i>Following inhalation</i> | Remove to fresh air. Call a doctor. If breathing stops: apply mechanical respiration immediately, with oxygen if necessary. |
| <i>Following skin contact</i> | Wash with plenty of water. Take off contaminated clothing. |
| <i>Following eye contact</i> | In case of contact with eyes, rinse immediately with plenty of water and consult an ophthalmologist. |
| <i>Following ingestion</i> | Give up to two glasses of water. Get medical help immediately. Only in exceptional cases; if medical assistance is not available within one hour, induce vomiting (only if the person is awake and fully conscious). After: activated charcoal (20 - 40g in 10% solution). |

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling

4.3 Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing measures appropriate to the environment.

Unsuitable extinguishing media

There is no restriction for this item.

5.2 Special hazards arising from the substance or mixture

Nitrogen oxides (NOx). barium oxide. It is not flammable. Depending on the oxygen output, it has a fire-increasing effect. All-round fire can release dangerous vapours. Fire may cause evolution of: nitrogen oxides.

5.3 Advice for firefighters

Special protective equipment for firefighters

Do not stay in dangerous zone without self-contained breathing apparatus. Keep a safe distance to cut off contact with skin and wear suitable protective clothing.

5.4 Additional information

Stop and contain spill/release if it can be done safely. If this cannot be done, allow fire to burn under control.



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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Don't breathe vapours, aerosols. Avoid substance contact. Keep away from head and source of ignition. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert..

6.2 Environmental precautions

Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

Close drainage channels. Take up with liquid-absorbent material. Clean the affected area. Avoid generation of dust..

6.4 Reference to other sections

Disposal: see section 13.

6.5 Additional information

Clear spills immediately.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Advices on safe handling

Pay attention to the precautions on the label. Work with the title. Do not inhale the substance.

Advices on general occupational hygiene

Change contaminated clothing. Wash hands after working with substance. It is recommended to use a skin protection cream.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Keep container tightly closed in dry and well-ventilated places. Do not store near flammable materials.

7.3 Specific end uses

There are no other specific uses other than those mentioned in section 1.2.

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls

More attention should be paid to technical measures against the use of personal protective equipment.

Personal protection equipment


Eye/face protection

Safety glasses

Hand protection



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Hand protection

Full contact

Glove material : Nitrile rubber

Glove thickness :0,11 mm

Break through time : >480 minute

Splash contact

Glove material : Nitrile rubber

Glove thickness :0,11 mm

Break through time : >480 minute

The protective gloves to be used must comply with the specifications of directive 89/686/EEC and the related standart EN374.

Other skin protection

Protective chlothing.

Respiratory protection

Required when dusts occur.

Recommended filter type : P 3 Filter

SECTION 9: Physical and chemical Properties

9.1 Information on basic physical and chemical properties

| | |
|--|---|
| Physical state | Solid |
| Colour | White |
| Odour | Odorless |
| Odour threshold | No information. |
| pH value | 5,0 - 8,0 50 g/l 25 °C |
| Melting point/freezing point | 590 °C |
| Freezing point | No information. |
| Initial boiling point and boiling range | No information. |
| Flash point | No information. |
| Evaporation rate | No information. |
| Flammability (solid, gas) | > 400 °C |
| Upper/lower flammability or explosive limits | No information. |
| Upper/lower flammability or explosive limits | No information. |
| Vapour pressure | No information. |
| Vapour density | No information. |
| Density | 3,2 g/cm3 20 °C |
| Relative density | No information. |
| Water solubility (g/l) | 90 g/l 20 °C |
| Fat solubility (g/l) | No information. |
| Partition coefficient: n-octanol/water | No information. |
| Auto-ignition temperature | No information. |
| Decomposition temperature | > 550 °C |
| Viscosity | |
| Kinematic viscosity | No information. |
| Dynamic viscosity | No information. |
| Explosive properties | Not classified as explosive. |
| Oxidising properties | It is classified as subcategory 2 oxidizer. |

SECTION 10: Stability and Reactivity

10.1 Reactivity


Section 10.3 to see.

10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.



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10.3 Possibility of hazardous reactions

No information available.

10.4 Conditions to avoid

Avoid moisture. Heat.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity

LD50 Oral - Rat - female - 50 - 300 mg/kg
(OECD Test Guideline 423)

Acute respiratory toxicity

Estimated acute toxicity Inhalation - 1.6 mg/l

Serious eye damage/eye irritation

Eyes - Rabbit

Result: irritating

(OECD Test Guideline 405)

11.2 Additional information

Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: Ecological information

12.1 Toxicity

No information available.

12.2 Persistence and degradability

Methods for measuring biological degradation cannot be applied to inorganic substances.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Substance does not meet the criteria for PBT or vPvB.

12.6 Other adverse effects

Discharge into environment must be avoided.

SECTION 13: Disposal considerations

Waste treatment methods

It must be disposed of in accordance with national and local regulations. Do not mix with other products. Uncleaned Treat packages as if it were the product itself ... Waste materials must be disposed of in accordance with national and local regulations.

SECTION 14: Transport information

| ADR | IMDG | IATA | ADN | RID |
|---|----------------|----------------|----------------|----------------|
| 14.1 UN number UN 1446 | UN 1446 | UN 1446 | UN 1446 | UN 1446 |
| 14.2 UN proper shipping name BARIUM NITRATE | BARIUM NITRATE | BARIUM NITRATE | BARIUM NITRATE | BARIUM NITRATE |

14.3 Transport hazard class(es)



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14.4 Packing group

II

II

II

II

II

14.5 Environmental hazards

NO

NO

NO

NO

NO

No information available.

No information available.

No information available.

No information available.

No information available.

14.6 Special Precautions for User:

No information available.

SECTION 15: Regulatory information

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

This product safety data sheet complies with the requirements of EU Regulation 1907/2006.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been conducted for this substance.

SECTION 16: Other informations

Full text of H statements

H272 May intensify fire; oxidizer.

H301 Toxic if swallowed.

H319 Causes serious eye irritation.

H332 Harmful by inhalation.

Person Who Prepared the Safety Data Sheet:

Name:

Erhan DİLER

Certificate Number and Date:

11.29.03 & 11 Şubat 2020

Communication information:

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