



## Chemical Safety Data Sheet MSDS / SDS

### Calcium bromide

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

##### Product identifier

Product name: Calcium bromide

CBnumber: CB3210471

CAS: 7789-41-5

EINECS Number: 232-164-6

Synonyms: CALCIUM BROMIDE, CaBr<sub>2</sub>

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

Relevant identified uses: For R&D use only. Not for medicinal, household or other use.

Uses advised against: none

##### Company Identification

Company: Basekim kimyasal urunler

Address: No 6 of fehreddin pasha street, galip erdem ave, ilkbahar district turan gunesh blv, chankaya Ankara Turkey

Telephone: 00903125147055

#### SECTION 2: Hazards identification

GHS Label elements, including precautionary statements



Danger



Signal word Danger

Symbol (GHS)

#### Precautionary statements

P405 Store locked up.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P304+P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

#### Hazard statements

H335 May cause respiratory irritation

H319 Causes serious eye irritation

H318 Causes serious eye damage

H315 Causes skin irritation

H303 May be harmful if swallowed

### SECTION 3: Composition/information on ingredients

Substance

Product name: Calcium bromide

Synonyms: CALCIUM BROMIDE, CaBr<sub>2</sub>

CAS: 7789-41-5

EC number: 232-164-6

MF: Br<sub>2</sub>Ca

MW: 199.89

### SECTION 4: First aid measures

Description of first aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of any immediate medical attention and special treatment needed

No data available

**SECTION 5: Firefighting measures**

Extinguishing media

**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture

Nature of decomposition products not known.

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information

No data available

**SECTION 6: Accidental release measures**

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Reference to other sections

For disposal see section 13.



## **SECTION 7: Handling and storage**

### **Precautions for safe handling**

Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

### **Conditions for safe storage, including any incompatibilities**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

### **Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## **SECTION 8: Exposure controls/personal protection**

control parameter

### **Hazard composition and occupational exposure limits**

Does not contain substances with occupational exposure limits.

Exposure controls

### **Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### **Personal protective equipment**

#### **Eye/face protection**

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

#### **Body Protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full- face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### **Control of environmental exposure**

Do not let product enter drains.



## SECTION 9: Physical and chemical properties

Information on basic physicochemical properties

Appearance/Form: Beads Colour: white

Odour/odourless

Odour Threshold/No data available

pH/No data available

Melting point/freezing point/Melting point/range: 760 °C

Initial boiling point and boiling range/ca.1.815 °C

Flash point/806-812°C

Evaporation rate/No data available

Flammability (solid, gas)/No data available

Upper/lower flammability or explosive limits/No data available

Vapour pressure/No data available

Vapour density/No data available

Relative density/3,353 g/mL at 25 °C

Water solubility/1.420 g/l at 30 °C - completely miscible

Partition coefficient: n-octanol/water/No data available

Autoignition temperature/No data available

Decomposition temperature/No data available

Viscosity/No data available

Explosive properties/No data available

Oxidizing properties/No data available

## Other safety information

No data available

## SECTION 10: Stability and reactivity

### Reactivity

No data available

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

No data available

### Conditions to avoid

No data available

### Incompatible materials

No data available

### Hazardous decomposition products



Hazardous decomposition products formed under fire conditions. - Nature of decomposition products not known.

Other decomposition products - No data available In the event of fire: see section 5

### **SECTION 11: Toxicological information**

Information on toxicological effects

#### **Acute toxicity**

LD50 Oral - Rat - male and female - 1.854 - 2.635 mg/kg

#### **Skin corrosion/irritation**

Skin - Rabbit

Result: Mild skin irritation

(OECD Test Guideline 404)

#### **Serious eye damage/eye irritation**

Eyes - Rabbit

Result: Risk of serious damage to eyes. (OECD Test Guideline 405)

#### **Respiratory or skin sensitisation**

Maximisation Test - Guinea pig

Did not cause sensitisation on laboratory animals.

#### **Germ cell mutagenicity**

No data available

#### **Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

#### **Reproductive toxicity**

No data available

#### **Specific target organ toxicity - single exposure**

No data available

#### **Specific target organ toxicity - repeated exposure**

No data available

#### **Aspiration hazard**

No data available

#### **Additional Information**

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### **SECTION 12: Ecological information**

Toxicity

**Toxicity to daphnia and other aquatic invertebrates**



static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (OECD Test Guideline 202)

**Persistence and degradability**

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

**Results of PBT and vPvB assessment**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**Other adverse effects**

No data available

**SECTION 13: Disposal considerations**

**Waste treatment methods**

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated packaging**

Dispose of as unused product.

**SECTION 14: Transport information**

14.1 UN Number

ADR/RID: Not dangerous goods. (For reference only, please check.)

IMDG: Not dangerous goods. (For reference only, please check.)

14.2 UN Proper Shipping Name

ADR/RID: Not dangerous goods. (For reference only, please check.)

IMDG: Not dangerous goods. (For reference only, please check.)

14.3 Transport hazard class(es)

a IMDG: Not dangerous goods. (For reference only, please check.)

IATA: Not dangerous goods. (For reference only, please check.)

14.4 Packing group, if applicable

ADR/RID: Not dangerous goods. (For reference only, please check.)

IMDG: Not dangerous goods. (For reference only, please check.)

14.5 Environmental hazards

ADR/RID: No

IMDG: No

14.6 Special precautions for user

no data available



14.7 Transport in bulk according to IMO instruments  
no data available

#### SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

<b>Chemical name</b>	<b>Common names and synonyms</b>
Calcium bromide	Calcium bromide
<b>European Inventory of Existing Commercial Chemical Substances (EINECS)</b>	
<b>EC Inventory</b>	
<b>United States Toxic Substances Control Act (TSCA) Inventory</b>	
<b>China Catalog of Hazardous chemicals 2015</b>	
<b>New Zealand Inventory of Chemicals (NZIoC)</b>	
<b>Philippines Inventory of Chemicals and Chemical Substances (PICCS)</b>	
<b>Vietnam National Chemical Inventory</b>	
<b>Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)</b>	
<b>Korea Existing Chemicals List (KECL)</b>	