

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifiers:

Product name : Potassium bromide, Puriss., meets analytical specification of BP, Ph. Eur., USP, 99.5-100.5%  
Product Number : EX-052516  
Brand : EXIR  
CAS-No. : 7758-02-3  
IUPAKname : Potassium bromide  
Synonyms : Kalii bromidum

1.2 Relevant identified uses of the substance or mixture and uses advised against  
Identified uses : Laboratory chemicals, Manufacture of substances

### 1.3 Manufacturer/Importer/Supplier/Distributor information:

Company : Exir GmbH  
Flotowgasse 18-22/2/1  
1190 WIEN  
AUSTRIA  
Telefon : +43 (0) 19463937  
Website : [www.exir.co.at](http://www.exir.co.at)  
Email-Adress : [info@exir.co.at](mailto:info@exir.co.at)

### 1.4 Emergency telephone number

Emergency Phone : +43 1 9463937 & +43 1 9463959



## 2. HAZARD IDENTIFICATION

2.1 Classification of the substances or mixture:  
Classification according to Regulation (EC) No 1272/2008:

H319 Eye irritation (Category 2)

2.2 Label elements:  
labelling according Regulation (EC) No 1272/2008:

Pictogram : Warning  
Signal word : Warning

Hazard statement(s):

H319 Causes serious eye irritation.

Precautionary statement(s):

P280 Wear eye protection/ face protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 If eye irritation persists: Get medical advice/ attention.

Supplemental Hazard: none  
Statements

## 2.3 Other hazards:

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.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances:

Product name	:	Potassium bromide, Puriss., meets analytical specification of BP, Ph. Eur., USP, 99.5-100.5%
Product Number	:	EX-052516
Formula	:	KBr
Molecular Weight	:	119.00 g/mol
CAS No.	:	7758-02-3
Beilstein No	:	
EC-No.	:	231-830-3
MDL No.	:	MFCD00011358
Pupchem No.	:	253877
EC-Index No.	:	
Merck Index	:	14, 7618

## 4. FIRST AID MEASURES

### 4.1 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.

### 4.2 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.

### 4.3 Indication of any immediate medical attention and special treatment needed:

No data available.

## 5. FIREFIGHTING MEASURES

### 5.1 Extinguishing media:

#### Suitable extinguishing media:

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

### 5.2 Special hazards arising from the substance or mixture:

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No data available.

### 5.3 Advice for firefighters:

Wear self-contained breathing apparatus for firefighting if necessary.

### 5.4 Further information:

No data available.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas.

Ensure adequate ventilation. Avoid breathing dust.

For personal protection see section 8.

### 6.2 Environmental precautions:

Do not let product enter drains.

### 6.3 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.

### 6.4 Reference to other sections:

For disposal see section 13.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling:

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

### 7.2 Conditions for safe storage, including any incompatibilities:

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

Hygroscopic.

### 7.3 Specific end use(s):

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

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters:

Components with workplace control parameters:

Contains no substances with occupational exposure limit values.

### 8.2 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:

Safety glasses with side-shields conforming to EN166 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 EU Directive 89/686/EEC and the standard EN 374 derived from it.

#### Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

#### Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

#### Body protection:

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection:

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. 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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance Form	: solid
Colour	: colourless to white
Odeur	: odourless
PH	: 5.5-8.5 (50 g/l 20 °C)
Melting point/freezing point	: 734 °C(lit.)
Initial boiling point and boiling range	: 1435 °C(lit.)
Flash point(C.C)	: No Data Available.
Flash point(O.C)	: No Data Available.
Flammability (solid, gas)	: No Data Available.
Explosive limits	: No Data Available.
Vapour pressure	: 1.3 hPa (795 °C), < 0,01 hPa at 20 °C
Vapour density	: No Data Available.
Relative density	: 2.75 g/cm <sup>3</sup> (20 °C)
Water solubility	: 650 g/l (20 °C)
DMS solubility	: No Data Available.
DMF solubility	: No Data Available.
Ethanol solubility	: (20 °C) slightly soluble
Chloroform solubility	: No Data Available.
Dichloromethane solubility	: No Data Available.
Partition coefficient, n-octanol/water	: Log Pow :
Auto-ignition	: No Data Available.
Auto Decomposition	: No Data Available.
Viscosity dynamical	: No Data Available.

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Viscosity kinematical : No Data Available.  
Refractive Index : No Data Available.

## 9.2 Other safety information

No data available.

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity:

No data available.

### 10.2 Chemical stability:

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions:

No data available.

### 10.4 Conditions of avoid:

Exposure to moisture.

### 10.5 Incompatible materials:

Strong oxidizing agents, Strong acids, Heavy metal salts, Aluminum, Potassium.

### 10.6 Hazardous decomposition products:

Hazardous decomposition products formed under fire conditions.

- Hydrogen bromide gas, Potassium oxides.

Other decomposition products - No data available.

In the event of fire: see section 5.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects:

#### Acute toxicity:

LD50 Oral - Rat - male and female - > 2,000 mg/kg  
(OECD Test Guideline 401)

#### Skin corrosion/irritation:

Skin - Rabbit

Result: No skin irritation - 4 h  
(OECD Test Guideline 404)

#### Serious eye damage/eye irritation:

Eyes - Rabbit

Result: Irritating to eyes.  
(OECD Test Guideline 405)

#### Respiratory or skin sensitisation:

No data available.

#### Germ cell mutagenicity:

Laboratory experiments have shown mutagenic effects.

Ames test

Salmonella typhimurium

Result: negative

#### 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:**

Repeated dose toxicity                      Rat - male - Oral - NOAEL : 16.5 mg/kg

RTECS: TS7650000

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

Liver - Irregularities - Based on Human Evidence.

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity:

Toxicity to fish                                      LC50 - Pimephales promelas (fathead minnow) - > 30 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates

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

### 12.2 Persistence and degradability:

No data available.

### 12.3 Bioaccumulative potential:

No data available.

### 12.4 Mobility in soil:

No data available.

### 12.5 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.

### 12.6 Other adverse effects:

No data available.

## 13. DISPOSAL CONSIDERATIONS

### 13.1 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.

## 14. TRANSPORT INFORMATION

### 14.1 UN number:

ADR/RID : -                      IMDG : -                      IATA : -

### 14.2 UN proper shipping name:

ADR/RID : Not dangerous goods

IMDG : Not dangerous goods

IATA : Not dangerous goods

### 14.3 Transport hazard class(es):

ADR/RID : -                      IMDG : -                      IATA : -

### 14.4 Packaging group:

ADR/RID : -                      IMDG : -                      IATA : -

### 14.5 Environmental hazards:

ADR/RID : no                      IMDG Marine pollutant : no                      IATA : no

### 14.6 Special precautions for user:

No data available.

### 14.7 Limited Quantity: NO Limited Quantity

## 15. REGULATORY INFORMATION

### 15.1 Safety, health and environment regulations/legislation specific for the substance or mixture:

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

### 15.2 Chemical safety assessment:

For this product a chemical safety assessment was not carried out.

## 16. OTHER INFORMATION

### 16.1 Abbreviation and acronyms

ADR: Accord Europeen sur le transport des marchandises Dangereuses par Route(European Agreement concerning the International Carriage of Dangerous Goods by road)  
RID:Reglement International concernant le transport des marchandises dangereuses par chemin de fer (Regulations concerning the International transport of Dangerous Goods by Rail)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
IATA-DGR: Dangerous Goods Regulations by the International Air Transport Association  
ICAO:International Civil Aviation Organization  
ICAO-TI: Technical Instructions by the ICAO  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
CAS:Chemical Abstracts Service

### 16.2 Associated risk phrases according to European directive 67/548/EEC

### 16.3 Disclaimer

The product listed is for research and development purposes only and not for human or animal use. As such, in most cases, the toxicological, ecological and physicochemical properties have not been fully determined and the product should be treated with respect and always handled under suitable conditions by appropriately qualified personnel. The responsible party shall use this datasheet only in conjunction with other sources of information gathered by them, and should make an independent

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judgement of suitability, to ensure proper use and protect the health and safety of employees. This information is furnished without warranty and any use of the product not in conformance with this material safety data sheet, or in combination with any other product or process, is the responsibility of the user