according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU

# Potassium bromide ≥99 %, p.a., ACS

article number: **A137** date of compilation: 2015-09-17 Version: **1.0 en** 

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

# 1.1 Product identifier

Identification of the substance Potassium bromide

Article number A137

Registration number (REACH)

This information is not available.

EC number 231-830-3 CAS number 7758-02-3

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

**Identified uses:** laboratory chemical

# 1.3 Details of the supplier of the safety data sheet

Carl Roth GmbH + Co KG Schoemperlenstr. 3-5 D-76185 Karlsruhe Germany

**Telephone:** +49 (0) 721 - 56 06 0 **Telefax:** +49 (0) 721 - 56 06 149 **e-mail:** sicherheit@carlroth.de **Website:** www.carlroth.de

Competent person responsible for the safety data : Department Health, Safety and Environment

sheet

e-mail (competent person) : sicherheit@carlroth.de

1.4 Emergency telephone number

Emergency information service Poison Centre Munich: +49/(0)89 19240

# **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

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

# Classification acc. to GHS Section Hazard class degory Hazard class and category Hazard statement 3.3 serious eye damage/eye irritation (Eye Irrit. 2) H319

# Remarks

For full text of H-phrases: see SECTION 16.

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### 2.2 Label elements

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

Signal word Warning

# **Pictograms**



# **Hazard statements**

H319 Causes serious eye irritation.

# **Precautionary statements**

# **Precautionary statements - response**

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.

# Labelling of packages where the contents do not exceed 125 ml

Signal word: Warning

Symbol(s)



# 2.3 Other hazards

There is no additional information.

# **SECTION 3: Composition/information on ingredients**

### 3.1 Substances

Name of substance Potassium bromide

EC number 231-830-3 CAS number 7758-02-3

Molecular formula BrK

Molar mass 119 g/mol

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# **SECTION 4: First aid measures**

# 4.1 Description of first aid measures



# **General notes**

Take off contaminated clothing.

# Following inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

# Following skin contact

Rinse skin with water/shower.

# Following eye contact

Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. In case of eye irritation consult an ophthalmologist.

# Following ingestion

Rinse mouth. Call a doctor if you feel unwell.

# 4.2 Most important symptoms and effects, both acute and delayed

Irritation, Cough, Breathing difficulties, Nausea, Vomiting, Spasms, Unconsciousness

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

none

# **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media

# Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings water spray, foam, dry extinguishing powder, carbon dioxide (CO2)

# Unsuitable extinguishing media

water jet

# 5.2 Special hazards arising from the substance or mixture

Non-combustible.

# **Hazardous combustion products**

In case of fire may be liberated: hydrogen bromide (HBr)

# 5.3 Advice for firefighters

Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

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# **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

# For non-emergency personnel

Do not breathe dust. Avoid contact with eyes.

# **6.2** Environmental precautions

Keep away from drains, surface and ground water.

# 6.3 Methods and material for containment and cleaning up

# Advices on how to contain a spill

Covering of drains.

# Advices on how to clean up a spill

Take up mechanically. Control of dust.

# Other information relating to spills and releases

Place in appropriate containers for disposal.

# Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

# **SECTION 7: Handling and storage**

# 7.1 Precautions for safe handling

Avoid dust formation. When not in use, keep containers tightly closed.

# • Measures to prevent fire as well as aerosol and dust generation

Removal of dust deposits.

# Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs. Wash hands before breaks and after work.

# 7.2 Conditions for safe storage, including any incompatibilities

Store in a dry place. Keep container tightly closed.

# **Incompatible substances or mixtures**

Observe hints for combined storage.

# Consideration of other advice

Not required.

# Ventilation requirements

Use local and general ventilation.

# • Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C.

# 7.3 Specific end use(s)

No information available.

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

### 8.1 Control parameters

# **National limit values**

# Occupational exposure limit values (Workplace Exposure Limits)

C	oun- try	Name of agent	CAS No	Nota- tion	Identifier	TWA [mg/m³]	STEL [mg/m³]	Source
	UK	dust		i	WEL	10		EH40/2005
	UK	dust		r	WEL	4		EH40/2005

### **Notation**

i Inhalable fraction

r Respirable fraction
STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-

minute period unless otherwise specified

TWA Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8

hours time-weighted average

# 8.2 Exposure controls

# Individual protection measures (personal protective equipment)







# **Eye/face protection**

Use safety goggle with side protection.

### Skin protection

# hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

# · type of material

NBR (Nitrile rubber)

## material thickness

>0,11 mm.

# • breakthrough times of the glove material

>480 minutes (permeation: level 6)

# other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

### Respiratory protection

Respiratory protection necessary at: Dust formation. Particulate filter device (EN 143). P2 (filters at least 94 % of airborne particles, colour code: White).

Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

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# **Environmental exposure controls**

Keep away from drains, surface and ground water.

# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

# **Appearance**

Physical state solid (powder, crystalline)

Colour whitish
Odour odourless

Odour threshold No data available

Other physical and chemical parameters

pH (value) 5,5 - 8,5 (water: 50 <sup>g</sup>/<sub>I</sub>, 20 °C)

Melting point/freezing point 730 °C

Initial boiling point and boiling range 1.435 °C

Flash point not applicable
Evaporation rate no data available
Flammability (solid, gas) Non-flammable

**Explosive limits** 

lower explosion limit (LEL)
 upper explosion limit (UEL)
 this information is not available
 Explosion limits of dust clouds
 these information are not available

Vapour pressure 1,3 hPa at 795 °C Density 2,75  $^{\rm g}/_{\rm cm^3}$  at 20 °C

Vapour density This information is not available.

Bulk density  $\sim 900 - 1.000 \text{ kg/m}^3$ 

Relative density Information on this property is not available.

Solubility(ies)

Water solubility  $\sim 650 \, ^{\rm g}/_{\rm l}$  at 20  $^{\circ}$ C

Partition coefficient

n-octanol/water (log KOW)

This information is not available.

Auto-ignition temperature Information on this property is not available.

Decomposition temperature no data available

Viscosity not relevant (solid matter)

Explosive properties none
Oxidising properties none

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### 9.2 Other information

There is no additional information.

# **SECTION 10: Stability and reactivity**

# 10.1 Reactivity

This material is not reactive under normal ambient conditions.

# 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

# 10.3 Possibility of hazardous reactions

Violent reaction with: Acids, Strong oxidiser

# 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

# 10.5 Incompatible materials

There is no additional information.

# 10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

### **Acute toxicity**

Exposure route	Endpoint	Value	Species	Source
oral	LD50	3070 <sup>mg</sup> / <sub>kg</sub>	rat	TOXNET

### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

# Serious eye damage/eye irritation

Causes serious eye irritation.

# Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

# Summary of evaluation of the CMR properties

Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant

# • Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

# • Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

### **Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

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# Symptoms related to the physical, chemical and toxicological characteristics

# If swallowed

nausea, vomiting, Spasms, unconsciousness

# • If in eyes

Causes serious eye irritation

# • If inhaled

Irritation to respiratory tract, cough, breathing difficulties

### • If on skin

essentially non-irritating

# Other information

None.

# **SECTION 12: Ecological information**

# 12.1 Toxicity

acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment.

# **Aquatic toxicity (acute)**

Endpoint	Value	Species	Source	Exposure time
EC50	>100 <sup>mg</sup> / <sub>l</sub>	daphnia magna	OECD- 202	48 hours
LC50	>45 <sup>mg</sup> / <sub>l</sub>	Pimephales promelas	IUCID	96 hours

# 12.2 Process of degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

# 12.3 Bioaccumulative potential

Data are not available.

BCF 1,41 (ECHA)

# 12.4 Mobility in soil

Data are not available.

# 12.5 Results of PBT and vPvB assessment

Data are not available.

### 12.6 Other adverse effects

Slightly hazardous to water.

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# **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

# Sewage disposal-relevant information

Do not empty into drains.

# 13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

### 13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

# **SECTION 14: Transport information**

14.1	UN number	(not subject to transport regulations)

14.2 UN proper shipping name not relevant14.3 Transport hazard class(es) not relevant

Class -

**14.4** Packing group not relevant

**14.5** Environmental hazards none (non-environmentally hazardous acc. to the danger-

ous goods regulations)

# 14.6 Special precautions for user

There is no additional information.

# 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

The cargo is not intended to be carried in bulk.

# 14.8 Information for each of the UN Model Regulations

- Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) Not subject to ADR, RID and ADN.
- International Maritime Dangerous Goods Code (IMDG) Not subject to IMDG.

# **SECTION 15: Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)
  - Regulation 649/2012/EU concerning the export and import of hazardous chemicals (PIC) Not listed.

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• Regulation 1005/2009/EC on substances that deplete the ozone layer (ODS)

Not listed.

Regulation 850/2004/EC on persistent organic pollutants (POP)

Not listed.

• Restrictions according to REACH, Annex XVII

not listed

List of substances subject to authorisation (REACH, Annex XIV)

not listed

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II

not listed

Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

not listed

Directive 2000/60/EC establishing a framework for Community action in the field of water policy (WFD)

not listed

### **National inventories**

Substance is listed in the following national inventories:

- EINECS/ELINCS/NLP (Europe)
- REACH (Europe)

# 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance.

# SECTION 16: Other information

# Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
BCF	BioConcentration Factor
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
CMR	Carcinogenic, Mutagenic or toxic for Reproduction
EH40/2005	EH40/2005 Workplace exposure limits, Table 1: List of approved workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IMDG	International Maritime Dangerous Goods Code
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant)
NLP	No-Longer Polymer

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Abbr.	Descriptions of used abbreviations
PBT	Persistent, Bioaccumulative and Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
vPvB	very Persistent and very Bioaccumulative

# Key literature references and sources for data

- Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU
- Regulation (EC) No. 1272/2008 (CLP, EÚ GHS)

# List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H319	causes serious eye irritation

### Disclaimer

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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