

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Ammonium bromide for analysis, ACS

Revision date: 22.06.2022

Product code: 15186

Page 1 of 11

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

### 1.1. Product identifier

Ammonium bromide for analysis, ACS

REACH Registration Number: 01-2119931350-50-XXXX  
CAS No: 12124-97-9  
Index No: 035-005-00-7  
EC No: 235-183-8

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

#### Use of the substance/mixture

Laboratory chemicals

Industrial uses: Uses of substances as such or in preparations at industrial sites

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

#### Uses advised against

Do not use for private purposes (household).

### 1.3. Details of the supplier of the safety data sheet

Company name: Fa. Bernd Kraft GmbH  
Street: Stempelstraße 6  
Place: D-47167 Duisburg  
Telephone: 0203/5194-0  
Telefax: 0203/5194-290  
e-mail: info@berndkraft.de  
Contact person: Abteilung Produktsicherheit  
Telephone: 0203/5194-107/117  
e-mail: produktsicherheit@berndkraft.de  
Internet: www.berndkraft.de  
Responsible Department: Abteilung Produktsicherheit

### 1.4. Emergency telephone number:

For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect calls accepted)

### Further Information

No data available

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Regulation (EC) No 1272/2008

Repr. 1B; H360FD  
Lact.; H362  
Eye Irrit. 2; H319  
STOT SE 3; H336  
STOT RE 1; H372

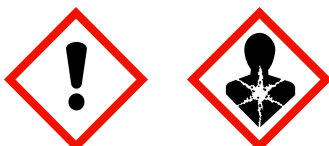
Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

#### Regulation (EC) No 1272/2008

Signal word: Danger

Pictograms:



**Ammonium bromide for analysis, ACS**

Revision date: 22.06.2022

Product code: 15186

Page 2 of 11

**Hazard statements**

H319	Causes serious eye irritation.
H360FD	May damage fertility. May damage the unborn child.
H362	May cause harm to breast-fed children.
H336	May cause drowsiness or dizziness.
H372	Causes damage to organs (nervous system) through prolonged or repeated exposure.

**Precautionary statements**

P201	Obtain special instructions before use.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P263	Avoid contact during pregnancy and while nursing.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

**Special labelling of certain mixtures**

Restricted to professional users.

**2.3. Other hazards**

No data available

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

**3.1. Substances**

Sum formula:	NH4Br
Molecular weight:	97,94 g/mol

**Hazardous components**

CAS No	Chemical name	Quantity
	EC No	Index No
	REACH No	
	Classification (Regulation (EC) No 1272/2008)	
12124-97-9	ammonium bromide	100 %
	235-183-8	01-2119931350-50-XXXX
	Repr. 1B, Lact., Eye Irrit. 2, STOT SE 3, STOT RE 1; H360FD H362 H319 H336 H372	

Full text of H and EUH statements: see section 16.

**Specific Conc. Limits, M-factors and ATE**

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
12124-97-9	235-183-8	ammonium bromide	100 %
	inhalation: LC50 = > 0,1 mg/l (dusts or mists); dermal: LD50 = > 2000 mg/kg; oral: LD50 = 2868 mg/kg		

**Further Information**

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**General information**

Never give anything by mouth to an unconscious person or a person with cramps.

**After inhalation**

Provide fresh air.  
Call a physician immediately.

**Ammonium bromide for analysis, ACS**

Revision date: 22.06.2022

Product code: 15186

Page 3 of 11

**After contact with skin**

Wash immediately with: Water  
In case of skin irritation, consult a physician.  
Take off immediately all contaminated clothing and wash it before reuse.

**After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
In case of eye irritation consult an ophthalmologist.

**After ingestion**

Rinse mouth immediately and drink plenty of water.  
Call a physician immediately.

**4.2. Most important symptoms and effects, both acute and delayed**

Vomiting, Gastrointestinal complaints, Agitation, Spasms, Irritant,  
Blood pressure drop, Circulatory collapse, Narcotic effects, Respiratory complaints

**4.3. Indication of any immediate medical attention and special treatment needed**

No data available

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.

**Unsuitable extinguishing media**

no restriction

**5.2. Special hazards arising from the substance or mixture**

Non-combustible solids  
Hazardous combustion products  
In case of fire may be liberated:  
Nitrogen oxides (NO<sub>x</sub>)  
Hydrogen bromide (HBr)

**5.3. Advice for firefighters**

Do not inhale explosion and combustion gases.  
Avoid contact with skin, eyes and clothes.  
In case of fire: Wear self-contained breathing apparatus.

**Additional information**

Suppress gases/vapours/mists with water spray jet.  
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.  
Move undamaged containers from immediate hazard area if it can be done safely.  
Use water spray jet to protect personnel and to cool endangered containers.

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

**General advice**

Do not breathe dust. Avoid dust formation.

**For non-emergency personnel**

Provide adequate ventilation.  
Use personal protection equipment.  
Avoid contact with skin, eyes and clothes.  
Remove persons to safety.  
Emergency procedures  
Do not breathe dust/fume/gas/mist/vapours/spray.

**Ammonium bromide for analysis, ACS**

Revision date: 22.06.2022

Product code: 15186

Page 4 of 11

**For emergency responders**

Precautionary statements For emergency responders : Personal protection equipment: see section 8

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

**6.3. Methods and material for containment and cleaning up**

**For containment**

- Cover drains.
- Prevent spread over a wide area (e.g. by containment or oil barriers).
- Collect in closed and suitable containers for disposal.
- Take up carefully when dry. Take up dust-free and set down dust-free.

**For cleaning up**

Clean contaminated articles and floor according to the environmental legislation.

**Other information**

- Provide adequate ventilation.
- Do not breathe dust/fume/gas/mist/vapours/spray.
- Wear breathing apparatus if exposed to vapours/dusts/aerosols.

**6.4. Reference to other sections**

- Safe handling: see section 7
- Personal protection equipment: see section 8
- Disposal: see section 13

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

**Advice on safe handling**

- Handle and open container with care. Keep container tightly closed.
- Provide adequate ventilation. Avoid dust formation. Do not breathe dust.
- Avoid contact with skin, eyes and clothes.
- Use extractor hood (laboratory).

**Advice on protection against fire and explosion**

Usual measures for fire prevention.

**Advice on general occupational hygiene**

- Wash contaminated clothing prior to re-use.
- Avoid dust formation. Do not breathe dust.
- Avoid contact with skin, eyes and clothes.

**Further information on handling**

- Wash contaminated clothing before reuse.
- Wash hands before breaks and after work.

**7.2. Conditions for safe storage, including any incompatibilities**

**Requirements for storage rooms and vessels**

- Moisture-sensitive.
- Protect against: Light
- Store in a well-ventilated place. Keep container tightly closed.

**Further information on storage conditions**

- Store in a dry place.
- Store in a place accessible by authorized persons only.

**7.3. Specific end use(s)**

Laboratory chemicals

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

**Ammonium bromide for analysis, ACS**

Revision date: 22.06.2022

Product code: 15186

Page 5 of 11

**8.1. Control parameters**

**DNEL/DMEL values**

CAS No	Substance	Exposure route	Effect	Value
12124-97-9	ammonium bromide			
Worker DNEL, long-term		inhalation	systemic	4,75 mg/m <sup>3</sup>
Worker DNEL, acute		dermal	systemic	95 mg/kg bw/day
Worker DNEL, long-term		dermal	systemic	95 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	1,66 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	95 mg/kg bw/day
Consumer DNEL, acute		dermal	systemic	95 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,475 mg/kg bw/day
Consumer DNEL, acute		oral	systemic	27 mg/kg bw/day

**PNEC values**

CAS No	Substance	Value
12124-97-9	ammonium bromide	
Freshwater		0,52 mg/l
Freshwater (intermittent releases)		109 mg/l
Marine water		41 mg/l
Micro-organisms in sewage treatment plants (STP)		100 mg/l
Soil		3,2 mg/kg

**8.2. Exposure controls**

**Appropriate engineering controls**

Technical measures and the application of suitable work processes have priority over personal protection equipment.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection**

goggles

**Hand protection**

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: [vertrieb@kcl.de](mailto:vertrieb@kcl.de) With specification (test according to EN374):

By long-term hand contact

Trade name/designation: KCL 741 Dermatril® L

Suitable material: NBR (Nitrile rubber) 0,11 mm

Wearing time with permanent contact: > 480 min

By short-term hand contact

Trade name/designation: KCL 741 Dermatril® L

Suitable material: NBR (Nitrile rubber) 0,11 mm

Wearing time with occasional contact (splashes): > 480 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet (>,<) supplied by us and for the designated use. When dissolving in or mixing with other substances

**Ammonium bromide for analysis, ACS**

Revision date: 22.06.2022

Product code: 15186

Page 6 of 11

and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

**Skin protection**

Wear suitable protective clothing.  
Take off immediately all contaminated clothing.  
Wash hands before breaks and after work.

**Respiratory protection**

Respiratory protection necessary at: dust formation  
Filtering device with filter or ventilator filtering device of type: P2

**Thermal hazards**

No data available

**Environmental exposure controls**

Do not allow to enter into surface water or drains.

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

Physical state:	solid
Colour:	colourless
Odour:	characteristic
Odour threshold:	No data available

**Changes in the physical state**

Melting point/freezing point:	542 °C
Boiling point or initial boiling point and boiling range:	No data available
Sublimation point:	No data available
Softening point:	No data available
Pour point:	No data available
No data available:	
Flash point:	No data available

**Flammability**

Solid/liquid:	No data available
Gas:	No data available

**Explosive properties**

No data available

Lower explosion limits:	No data available
Upper explosion limits:	No data available
Auto-ignition temperature:	No data available

**Self-ignition temperature**

Solid:	No data available
Gas:	No data available

Decomposition temperature:	90 °C
pH-Value (at 25 °C):	4,8 (50 g/l)
Viscosity / dynamic:	No data available
Viscosity / kinematic:	No data available
Flow time:	No data available
Water solubility: (at 4 °C)	742 g/L

**Ammonium bromide for analysis, ACS**

Revision date: 22.06.2022

Product code: 15186

Page 7 of 11

**Solubility in other solvents**

No data available

Dissolution rate:	No data available
Partition coefficient n-octanol/water:	No data available
Dispersion stability:	No data available
Vapour pressure: (at 198 °C)	1,3 hPa
Vapour pressure:	No data available
Density:	2,43 g/cm <sup>3</sup>
Relative density:	No data available
Bulk density:	~1100 kg/m <sup>3</sup>
Relative vapour density:	No data available
Particle characteristics:	No data available

**9.2. Other information**

**Information with regard to physical hazard classes**

Sustaining combustion:	No data available
Oxidizing properties No data available	

**Other safety characteristics**

Solvent separation test:	No data available
Solvent content:	0
Solid content:	100,00 %
Evaporation rate:	No data available

**Further Information**

No data available

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

No data available

**10.2. Chemical stability**

Moisture-sensitive.  
Protect against: Light

**10.3. Possibility of hazardous reactions**

Strong acid  
Strong alkali  
Oxidising agent

**10.4. Conditions to avoid**

Heat  
Humidity  
Light  
sensitive to impact

**10.6. Hazardous decomposition products**

In case of fire may be liberated:  
SECTION 5: Firefighting measures

**Further information**

No data available

**SECTION 11: Toxicological information**

**Ammonium bromide for analysis, ACS**

Revision date: 22.06.2022

Product code: 15186

Page 8 of 11

**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

**Toxicokinetics, metabolism and distribution**

No data available

**Acute toxicity**

Based on available data, the classification criteria are not met.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
12124-97-9	ammonium bromide				
	oral	LD50 2868 mg/kg	Rat	Study report (1986)	OECD Guideline 401
	dermal	LD50 > 2000 mg/kg	Rat	Study report (1998)	OECD Guideline 402
	inhalation (4 h) dust/mist	LC50 > 0,1 mg/l	Rat	Study report (1998)	OECD Guideline 403

**Irritation and corrosivity**

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

**Sensitising effects**

Based on available data, the classification criteria are not met.

**Carcinogenic/mutagenic/toxic effects for reproduction**

May damage fertility. May damage the unborn child. (ammonium bromide)

May cause harm to breast-fed children. (ammonium bromide)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

**STOT-single exposure**

May cause drowsiness or dizziness. (ammonium bromide)

**STOT-repeated exposure**

Causes damage to organs through prolonged or repeated exposure. (ammonium bromide)

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**Information on likely routes of exposure**

No data available

**Specific effects in experiment on an animal**

No data available

**Additional information on tests**

No data available

**Practical experience**

No data available

**11.2. Information on other hazards**

**Endocrine disrupting properties**

No data available

**Other information**

Vomiting, Gastrointestinal complaints, Agitation, Spasms, Irritant,

Blood pressure drop, Circulatory collapse, Narcotic effects, Respiratory complaints

May cause respiratory irritation.

**Further information**

No data available



**Ammonium bromide for analysis, ACS**

Revision date: 22.06.2022

Product code: 15186

Page 9 of 11

**SECTION 12: Ecological information**

**12.1. Toxicity**

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
12124-97-9	ammonium bromide					
	Acute fish toxicity	LC50 mg/l	> 440	96 h	Scophthalmus maximus	Study report (2000) OECD Guideline 203
	Acute algae toxicity	ErC50 mg/l	> 440	72 h	Skeletonema costatum	Study report (2000) OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l	>= 1000	48 h	Daphnia magna	Study report (1988) EPA OPP 72-2
	Fish toxicity	NOEC	10 mg/l	124 d	Poecilia reticulata	Fd. Chem. Toxic. Vol. 21, No. 4, 369-378 Dutch Standardisation Organisation
	Crustacea toxicity	NOEC	7,5 mg/l	21 d	Daphnia magna	Ecotoxicology and Environmental Safety, other: OECD
	Acute bacteria toxicity	(EC50 mg/l)	1739,4	3 h	Activated sludge	Study report (2008) OECD Guideline 209

**12.2. Persistence and degradability**

No data available

**12.3. Bioaccumulative potential**

No data available

**BCF**

CAS No	Chemical name	BCF	Species	Source
12124-97-9	ammonium bromide	0,23	Artemia salina	Environmental Toxicology

**12.4. Mobility in soil**

No data available

**12.5. Results of PBT and vPvB assessment**

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

**12.6. Endocrine disrupting properties**

This substance does not have endocrine disrupting properties with respect to non-target organisms.

**12.7. Other adverse effects**

Discharge into the environment must be avoided.

**Further information**

Do not allow to enter into surface water or drains.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Disposal recommendations**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Do not allow to enter into surface water or drains.

Send to a physico-chemical treatment facility under observation of official regulations.

**Contaminated packaging**

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

**Ammonium bromide for analysis, ACS**

Revision date: 22.06.2022

Product code: 15186

Page 10 of 11

**SECTION 14: Transport information**

**Land transport (ADR/RID)**

- 14.1. UN number or ID number: No dangerous good in sense of this transport regulation.
- 14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
- 14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
- 14.4. Packing group: No dangerous good in sense of this transport regulation.

**Inland waterways transport (ADN)**

- 14.1. UN number or ID number: No dangerous good in sense of this transport regulation.
- 14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
- 14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
- 14.4. Packing group: No dangerous good in sense of this transport regulation.

**Marine transport (IMDG)**

- 14.1. UN number or ID number: No dangerous good in sense of this transport regulation.
- 14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
- 14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
- 14.4. Packing group: No dangerous good in sense of this transport regulation.

**Air transport (ICAO-TI/IATA-DGR)**

- 14.1. UN number or ID number: No dangerous good in sense of this transport regulation.
- 14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
- 14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
- 14.4. Packing group: No dangerous good in sense of this transport regulation.

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

No dangerous good in sense of this transport regulation.

**14.7. Maritime transport in bulk according to IMO instruments**

No dangerous good in sense of this transport regulation.

**SECTION 15: Regulatory information**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe employment restrictions for women of child-bearing age.

Water hazard class (D): 1 - slightly hazardous to water

**Additional information**

No data available

**SECTION 16: Other information**

**Changes**

This data sheet contains changes from the previous version in section(s): 1,2,4,6,7,8,9,12,15.

**Relevant H and EUH statements (number and full text)**

- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- H360FD May damage fertility. May damage the unborn child.
- H362 May cause harm to breast-fed children.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Ammonium bromide for analysis, ACS

Revision date: 22.06.2022

Product code: 15186

Page 11 of 11

H372 Causes damage to organs (nervous system) through prolonged or repeated exposure.  
H372 Causes damage to organs through prolonged or repeated exposure.

#### Further Information

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. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.