acc. to Regulation (EC) No. 1907/2006 (REACH)

Ammonium bromide ≥99 %, p.a., ACS

article number: HN14

Version: 4.0 en Replaces version of: 2022-08-30 Version: (3)

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

Product identifier 1.1

| Identification of the substance | Ammonium bromide ≥99 %, p.a., ACS | | |
|---------------------------------|--|--|--|
| Article number | HN14 | | |
| Index No (GB CLP) | 035-005-00-7 | | |
| EC number | 235-183-8 | | |
| CAS number | 12124-97-9 | | |

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

Relevant identified uses:

Uses advised against:

Laboratory chemical Laboratory and analytical use

Do not use for products which come into contact with foodstuffs. Do not use for private purposes (household). Food, drink and animal feedingstuffs.

Details of the supplier of the safety data sheet 1.3

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):

Emergency telephone number 1.4

| Name | Street | Postal code/city | Telephone | Website |
|--|-----------|----------------------|--------------|---------|
| National Poisons Information Service City Hospital | Dudley Rd | B187QH Birmingham | 844 892 0111 | |

SECTION 2: Hazards identification

Classification of the substance or mixture 2.1



date of compilation: 2020-09-07

Revision: 2024-03-01

sicherheit@carlroth.de

acc. to Regulation (EC) No. 1907/2006 (REACH)

Ammonium bromide ≥99 %, p.a., ACS



article number: HN14

Classification acc. to GHS

| Section | Hazard class | | Hazard class and category | Hazard statement |
|---------|---|----|---------------------------|---------------------|
| 3.3 | Serious eye damage/eye irritation | 2 | Eye Irrit. 2 | H319 |
| 3.7 | Reproductive toxicity | 1B | Repr. 1B | H360FD |
| 3.7L | Effects on or via lactation | L | Lact. | H362 |
| 3.8D | Specific target organ toxicity - single exposure (narcotic effects, drowsiness) | 3 | STOT SE 3 | H336 |
| 3.9 | Specific target organ toxicity - repeated exposure | 1 | STOT RE 1 | H372 |

For full text of abbreviations: see SECTION 16

The most important adverse physicochemical, human health and environmental effects

Delayed or immediate effects can be expected after short or long-term exposure.

2.2 Label elements

Labelling

Signal word Danger

Pictograms

GHS07, GHS08



Hazard statements

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

Precautionary statements

Precautionary statements - prevention

P260Do not breathe dustP280Wear protective gloves/eye protection

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 |
| P312 | Call a POISON CENTRE/doctor if you feel unwell |

For professional users only

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Ammonium bromide ≥99 %, p.a., ACS

article number: HN14

2.3 Other hazards

Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\ge 0,1\%$.

SECTION 3: Composition/information on ingredients

3.1 Substances

| Name of substance | Ammonium bromide |
|-------------------|-------------------------------------|
| Molecular formula | BrH₄N |
| Molar mass | 97,94 ^g / _{mol} |
| CAS No | 12124-97-9 |
| EC No | 235-183-8 |
| Index No (GB CLP) | 035-005-00-7 |

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

4.2 Most important symptoms and effects, both acute and delayed

Irritation, Dizziness, Drowsiness, Narcosis

4.3 Indication of any immediate medical attention and special treatment needed

none



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Ammonium bromide ≥99 %, p.a., ACS



article number: HN14

SECTION 5: Firefighting measures

5.1 Extinguishing media



Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings! water, foam, alcohol resistant foam, dry extinguishing powder, ABC-powder

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: Nitrogen oxides (NOx), Hydrogen bromide (HBr), Hydrogen bromide (HBr)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures



For non-emergency personnel

Use personal protective equipment as required. Avoid contact with skin, eyes and clothes. Do not breathe dust.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains. Take up mechanically.

Advice 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.

6.4 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.

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Ammonium bromide ≥99 %, p.a., ACS

article number: HN14

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid exposure. Avoid dust formation.

Measures to prevent fire as well as aerosol and dust generation

Removal of dust deposits.

Advice on general occupational hygiene

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

7.2 Conditions for safe storage, including any incompatibilities

Store in a dry place. Hygroscopic solid.

Incompatible substances or mixtures

Observe hints for combined storage.

Protect against external exposure, such as

humidity, UV-radiation/sunlight

Consideration of other advice:

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.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

| Coun try | Name of agent | CAS No | Identifi- er | TWA [mg/ m³] | STEL [mg/ m³] | Ceil- ing-C [mg/ m ³] | Nota- tion | Source |
|-------------|---------------|--------|-----------------|--------------------|---------------------|--|---------------|-----------|
| GB | dust | | WEL | 10 | | | i | EH40/2005 |
| GB | dust | | WEL | 4 | | | r | EH40/2005 |
| N | | | | | | | | |

Notation

 Ceiling-C
 Ceiling value is a limit value above which exposure should not occur

 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 15minute 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 (unless otherwise specified)

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Ammonium bromide ≥99 %, p.a., ACS

article number: HN14

| Human health values Relevant DNELs and other threshold levels | | | | | | | |
|---|------------------------|-------------------|-------------------|----------------------------|--|--|--|
| Endpoint Threshold level Protection goal, route of exposure Used in Exposure time | | | | | | | |
| DNEL | 4,75 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects | | | |
| DNEL | 95 mg/kg bw/ day | human, dermal | worker (industry) | chronic - systemic effects | | | |
| DNEL | 95 mg/kg bw/ day | human, dermal | worker (industry) | acute - systemic effects | | | |

Environmental values

| Relevant PNECs and other threshold levels | | | | | |
|---|-----------------------------------|-----------------------|---------------------------------|------------------------------|--|
| End- point | Threshold level | Exposure time | | | |
| PNEC | 0,52 ^{mg} / _l | aquatic organisms | freshwater | short-term (single instance) | |
| PNEC | 41 ^{mg} / _l | aquatic organisms | marine water | short-term (single instance) | |
| PNEC | 100 ^{mg} / _l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) | |
| PNEC | 3,2 ^{mg} / _{kg} | terrestrial organisms | soil | short-term (single instance) | |

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. The times are approximate values from measurements at 22 ° C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a consider-able reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

• type of material

NBR (Nitrile rubber)

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Ammonium bromide ≥99 %, p.a., ACS

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article number: HN14

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).

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

| Physical state | solid |
|--|---|
| Form | powder, crystalline |
| Colour | white |
| Odour | odourless |
| Melting point/freezing point | >370 °C (ECHA) |
| Boiling point or initial boiling point and boiling range | not determined |
| Flammability | non-combustible |
| Lower and upper explosion limit | not determined |
| Flash point | not applicable |
| Auto-ignition temperature | not determined |
| Decomposition temperature | 370 °C (ECHA) |
| pH (value) | 4,5 – 6 (in aqueous solution: 50 g / _I , 25 °C) |
| Kinematic viscosity | not relevant |
| Solubility(ies) | |
| Water solubility | 970 ^g / _l at 25 °C |
| Partition coefficient | |
| Partition coefficient n-octanol/water (log value): | not relevant (inorganic) |
| | |
| Vapour pressure | 0 Pa at 25 °C |
| | |

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Ammonium bromide ≥99 %, p.a., ACS

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article number: HN14

| | Density and/or relative density | |
|----|---|--|
| | Density | ~ 2,455 ^g / _{cm³} at 25 °C |
| | Relative vapour density | Information on this property is not available. |
| | Bulk density | ~1.100 ^{kg} / _{m³} |
| | | |
| | Particle characteristics | No data available. |
| | Other safety parameters | |
| | Other safety parameters | |
| | Oxidising properties | none |
| 2 | Other information | |
| | Information with regard to physical hazard classes: | hazard classes acc. to GHS (physical hazards): not relevant |
| | Other safety characteristics: | |
| | Surface tension | 72,9 ^{mN} / _m (20 °C) (ECHA) |
| EC | TION 10: Stability and reactivity | |

SECTION 10: Stability and reactivity

10.1 Reactivity

9.2

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

Danger of explosion: Halogens, Potassium, **Dangerous/dangerous reactions with:** Strong acid, Strong alkali

10.4 Conditions to avoid

UV-radiation/sunlight. Humidity. Keep away from heat. Decompostion takes place from temperatures above: 370 $^{\circ}\text{C}.$

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

Classification acc. to GHS

Acute toxicity

Shall not be classified as acutely toxic.

GHS of the United Nations, annex 4. May be harmful if swallowed or in contact with skin.

acc. to Regulation (EC) No. 1907/2006 (REACH)

Ammonium bromide ≥99 %, p.a., ACS



article number: HN14

| Acute toxicity | | | | | |
|----------------|----------|--------------------------------------|---------|--------|--------|
| Exposure route | Endpoint | Value | Species | Method | Source |
| oral | LD50 | 2.868 ^{mg} / _{kg} | rat | | ECHA |
| dermal | LD50 | >2.000 ^{mg} / _{kg} | rat | | ECHA |

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.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

May damage the unborn child. May damage fertility. May cause harm to breast-fed children.

Specific target organ toxicity - single exposure

May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure

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

| Hazard category | Target organ | Exposure route |
|-----------------|----------------|----------------|
| 1 | nervous system | if exposed |

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Symptoms related to the physical, chemical and toxicological characteristics

• If swallowed

nausea, gastrointestinal complaints

• If in eyes

Causes serious eye irritation

If inhaled

fatigue, dizziness, narcosis

• If on skin

Data are not available.

• Other information

none

11.2 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\ge 0,1\%$.

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Ammonium bromide ≥99 %, p.a., ACS

article number: HN14

11.3 Information on other hazards There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

| Aquatic toxicity (acute) | | | | |
|--------------------------|-------------------------------------|-----------------------|--------|------------------|
| Endpoint | Value | Species | Source | Exposure time |
| LC50 | >440 ^{mg} / _l | fish | ECHA | 96 h |
| EC50 | ≥1.000 ^{mg} / _l | aquatic invertebrates | ECHA | 48 h |
| ErC50 | >440 ^{mg} / _l | algae | ECHA | 72 h |

Aquatic toxicity (chronic)

| Endpoint | Value | Species | Source | Exposure time |
|----------|-----------------------------------|-----------------------|--------|------------------|
| EC50 | 20,8 ^{mg} / _l | aquatic invertebrates | ECHA | 21 d |

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Does not significantly accumulate in organisms.

| BCF | 0,23 (ECHA) | |
|-----|-------------|--|
| | | |

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\ge 0,1\%$.

12.7 Other adverse effects

Data are not available.

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.

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Ammonium bromide ≥99 %, p.a., ACS



article number: HN14

Sewage disposal-relevant information

Do not empty into drains.

Waste treatment of containers/packagings

Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

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.

Properties of waste which render it hazardous

- **HP 4** irritant skin irritation and eye damage
- HP 5 specific target organ toxicity (STOT)/aspiration toxicity
- HP 10 toxic for reproduction

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. Non-contaminated packages may be recycled.

SECTION 14: Transport information

- 14.1 UN number or ID number
- 14.2 UN proper shipping name
- 14.3 Transport hazard class(es)
- 14.4 Packing group
- 14.5 Environmental hazards

14.6 Special precautions for user

There is no additional information.

14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

14.8 Information for each of the UN Model Regulations

International Maritime Dangerous Goods Code (IMDG) - Additional information Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information Not subject to ICAO-IATA.

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)

not subject to transport regulations

not assigned

none

not assigned

non-environmentally hazardous acc. to the dangerous goods regulations

acc. to Regulation (EC) No. 1907/2006 (REACH)



Ammonium bromide ≥99 %, p.a., ACS

article number: HN14

| Seveso | Directive | | |
|--------|---------------------------------------|---|-------|
| 2012/ | 18/EU (Seveso III) | | |
| No | Dangerous substance/hazard categories | Qualifying quantity (tonnes) for the ap- plication of lower and upper-tier re- quirements | Notes |
| | not assigned | | |

Deco-Paint Directive

| VOC content | 0 % |
|-------------|-------------------------------|
| VOC content | 0 ^g / _l |

Industrial Emissions Directive (IED)

| VOC content | 0 % |
|-------------|-------------------------------|
| VOC content | 0 ^g / _l |

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

not listed

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

not listed

Water Framework Directive (WFD)

| List of pollutants (WFD) | | | | |
|--------------------------|--|--------|-----------|---------|
| Name of substance | Name acc. to inventory | CAS No | Listed in | Remarks |
| Ammonium bromide | Substances which contribute to eutrophication (in particular, ni-trates and phosphates) | | a) | |
| Ammonium bromide | Substances and preparations, or the breakdown products of such, which have been proved to pos- sess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine- related functions in or via the aquatic environment | | a) | |

Legend

a) Indicative list of the main pollutants

Regulation on the marketing and use of explosives precursors

not listed

Regulation on drug precursors

not listed

Regulation on substances that deplete the ozone layer (ODS)

not listed

acc. to Regulation (EC) No. 1907/2006 (REACH)

Ammonium bromide ≥99 %, p.a., ACS

article number: HN14

Regulation concerning the export and import of hazardous chemicals (PIC)

not listed

Regulation on persistent organic pollutants (POP)

not listed

National regulations(GB)

List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list not listed

Restrictions according to GB REACH, Annex 17

| Dangerous substances with restrictions (GB REACH, Annex 17) | | | |
|---|--------------------------|--------|----|
| Name of substance | Name acc. to inventory | CAS No | No |
| Ammonium bromide | Inorganic ammonium salts | | 65 |
| Ammonium bromide | toxic for reproduction | | 30 |

Other information

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

| National | inventories |
|----------|-------------|
| | |

| Country | Inventory | Status |
|---------|------------|------------------------------|
| AU | AIIC | substance is listed |
| CA | DSL | substance is listed |
| CN | IECSC | substance is listed |
| EU | ECSI | substance is listed |
| EU | REACH Reg. | substance is listed |
| JP | CSCL-ENCS | substance is listed |
| KR | KECI | substance is listed |
| MX | INSQ | substance is listed |
| NZ | NZIoC | substance is listed |
| PH | PICCS | substance is listed |
| TW | TCSI | substance is listed |
| US | TSCA | substance is listed (ACTIVE) |
| VN | NCI | substance is listed |

Legend

| AIIC | Australian Inventory of Industrial Chemicals List of Existing and New Chemical Substances (CSCL-ENCS) |
|----------------|---|
| DSL | Domestic Substances List (DSL) |
| ECSI IECSC | EC Substance Inventory (EINECS, ELINCS, NLP) Inventory of Existing Chemical Substances Produced or Imported in China |
| INSQ KECI | National Inventory of Chemical Substances Korea Existing Chemicals Inventory |
| NCI | National Chemical Inventory |
| NZIoC PICCS | New Zealand Inventory of Chemicals Philippine Inventory of Chemicals and Chemical Substances (PICCS) |
| REACH Reg. | REACH registered substances |
| TCSI TSCA | Taiwan Chemical Substance Inventory Toxic Substance Control Act |
| | |



acc. to Regulation (EC) No. 1907/2006 (REACH)



Ammonium bromide ≥99 %, p.a., ACS

article number: HN14

15.2 Chemical safety assessment

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

SECTION 16: Other information

Indication of changes (revised safety data sheet)

| Section | Former entry (text/value) | Actual entry (text/value) | Safety- relev- ant |
|---------|--|---|--------------------------|
| 2.3 | | Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%. | yes |
| 14.8 | Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - Additional in- formation: Not subject to ADR, RID and ADN. | | yes |
| 15.1 | VOC content: 0 % 0 ^g / _l | VOC content: 0 % | yes |
| 15.1 | | VOC content: 0 ^g / _l | yes |
| 15.1 | | National inventories: change in the listing (table) | yes |

Abbreviations and acronyms

| Abbr. | Descriptions of used abbreviations | |
|-----------|--|--|
| ADR | Accord relatif au transport international des marchandises dangereuses par route (Agreement concern- ing 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) | |
| Ceiling-C | Ceiling value | |
| DGR | Dangerous Goods Regulations (see IATA/DGR) | |
| DNEL | Derived No-Effect Level | |
| EC50 | Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval | |
| EC No | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identi- fier of substances commercially available within the EU (European Union) | |
| ED | Endocrine disruptor | |
| EH40/2005 | EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-li- cence/) | |
| EINECS | European Inventory of Existing Commercial Chemical Substances | |
| ELINCS | European List of Notified Chemical Substances | |
| ErC50 | ≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control | |
| GB CLP | The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/720 (as amended) | |
| GB REACH | The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended) | |

acc. to Regulation (EC) No. 1907/2006 (REACH)

Ammonium bromide ≥99 %, p.a., ACS



article number: HN14

| Abbr. | Descriptions of used abbreviations | |
|----------|--|--|
| GHS | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Na- tions | |
| ΙΑΤΑ | International Air Transport Association | |
| IATA/DGR | Dangerous Goods Regulations (DGR) for the air transport (IATA) | |
| ICAO | International Civil Aviation Organization | |
| IMDG | International Maritime Dangerous Goods Code | |
| index No | The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 | |
| LC50 | Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval | |
| LD50 | Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval | |
| NLP | No-Longer Polymer | |
| PBT | Persistent, Bioaccumulative and Toxic | |
| PNEC | Predicted No-Effect Concentration | |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals | |
| RID | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regula- tions concerning the International carriage of Dangerous goods by Rail) | |
| STEL | Short-term exposure limit | |
| TWA | Time-weighted average | |
| VOC | Volatile Organic Compounds | |
| vPvB | Very Persistent and very Bioaccumulative | |
| WEL | Workplace exposure limit | |

Key literature references and sources for data

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

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

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

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.