

# SAFETY DATA SHEET

PREPARED BY: SAFETY COMMITTEE, THOMAS BAKER (CHEMICALS) PVT. LTD.  
FACTORY: B3 AND B4 MIDC CHEMICAL ZONE, AMBERNATH WEST,  
THANE, MAHARASHTRA, 421501 (INDIA). TEL: + 91 9307304329 | 9223070 00 3  
EMAIL: qc@thomasbaker.com | sales@thomasbaker.com  
GST NO.: 27AACT4221B1ZY | CIN NO.: U24114MH1980PTC023396  
Revision Date 01.10.2026



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

### **1.1 Product identifiers**

Product name : AMMONIUM BROMIDE (equivalent to ACS)  
Article No. : 9997  
Brand : Thomas Baker  
CAS Number : 12124-97-9

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

Identified uses: Chemical for synthesis

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

Company Name: Thomas Baker (Chemicals) Pvt. Ltd.  
B3 & B4, MIDC, Chemical Zone, Ambernath 421501. Dist: Thane, India.

### **1.4 Emergency telephone**

Emergency Phone # : +91 9307304329

## **SECTION 2: HAZARDS IDENTIFICATION**

### **2.1. Classification of the substance or mixture**

Serious eye damage/eye : Category 2  
irritation

Reproductive toxicity : Category 1B

Effects on or via lactation

Specific target organ : Category 3 (Central nervous system)  
toxicity - single  
exposure

Specific target organ : Category 1 (Nervous system)  
toxicity - repeated  
exposure



An ISO 9001:2015 Certified Company  
Certificate No. 43391/22/S

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## 2.2 Label elements

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



Hazard pictograms

Signal word

Danger

Hazard statement(s)

|        |                                                                                  |
|--------|----------------------------------------------------------------------------------|
| 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 statement(s)

#### Prevention:

|      |                                                                           |
|------|---------------------------------------------------------------------------|
| P201 | Obtain special instructions before use.                                   |
| P202 | Do not handle until all safety precautions have been read and understood. |
| P260 | Do not breathe dust.                                                      |
| P263 | Avoid contact during pregnancy/ while nursing.                            |
| P264 | Wash skin thoroughly after handling.                                      |
| P270 | Do not eat, drink or smoke when using this product.                       |
| P271 | Use only outdoors or in a well-ventilated area.                           |
| P280 | Wear eye protection/ face protection.                                     |
| P281 | Use personal protective equipment as required.                            |



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## Response:

P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.

## Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.

## Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

## 2.3 Other hazards

None known.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

CAS-No. : 12124-97-9

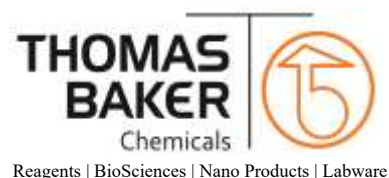
### Components

| Chemical name    | CAS-No.    | Concentration (% w/w) |
|------------------|------------|-----------------------|
| ammonium bromide | 12124-97-9 | >= 60 -<= 100         |



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## **SECTION 4: FIRST-AID MEASURES**

### **4.1. Description of first aid measures**

- General advice : Show this safety data sheet to the doctor in attendance.
- If inhaled : After inhalation: fresh air. Call in physician.
- In case of skin contact : In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.
- In case of eye contact : After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.
- If swallowed : After swallowing: immediately make victim drink water (two glasses at most). 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
- Protection of first-aiders : For personal protection see section 8.
- Notes to physician : No data available

## **SECTION 5: FIRE FIGHTING MEASURES**

### **5.1 Extinguishing media**

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : For this substance/mixture no limitations of extinguishing agents are given.



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## 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire fighting : Not combustible.

Ambient fire may liberate hazardous vapours.

Hazardous combustion Products : Nitrogen oxides (NO<sub>x</sub>)

Hydrogen bromide gas

## 5.3 Advice for firefighters

### Special protective equipment and precautions for fire-fighters

Special protective equipment for fire-fighters : Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

Specific extinguishing methods : Suppress (knock down) gases/vapours/mists with a water spray jet.  
Prevent fire extinguishing water from contaminating surface water or the ground water system.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Personal precautions : Advice for non-emergency personnel:  
Avoid generation and inhalation of dusts in all circumstances.  
Avoid substance contact.  
Ensure adequate ventilation  
Evacuate the danger area, observe emergency procedures, consult an expert.  
Advice for emergency responders:  
Wear appropriate personal protective equipment, as indicated in Section 8.



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## 6.2 Environmental precautions

Environmental precautions : Do not let product enter drains.

## 6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Cover drains. Collect, bind, and pump off spills.  
Observe possible material restrictions (see sections 7 and 10).  
Take up carefully. Dispose of properly. Clean up affected area.  
Avoid generation of dusts.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

#### Handling

For precautions see section 2.2.

#### Precautions for safe handling

Advice on safe handling : Work under hood. Do not inhale substance/mixture.

#### Storage

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

Further information on storage conditions : Tightly closed.  
Dry.  
Keep in a well-ventilated place.  
Keep locked up or in an area accessible only to qualified or authorised persons.

Storage class : 6.1C, Combustible, acute toxic Cat.3 / toxic compounds or compounds which causing chronic effects

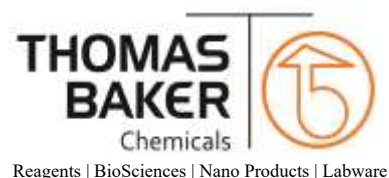
Recommended storage temperature : Recommended storage temperature if relevant, see product label.

Further information on storage stability : Air sensitive.  
Hygroscopic.



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## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **8.1 Control parameters**

Contains no substances with occupational exposure limit values.

### **8.2 Exposure controls**

**Appropriate engineering controls** : No data available

#### **Individual protection measures, such as personal protective equipment (PPE)**

**Eye/face protection** : Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).  
Safety glasses

**Skin protection** : protective clothing

#### **Hand protection**

**Material** : Nitrile rubber  
**Break through time** : 480 min  
**Glove thickness** : 0.11 mm  
**Protective index** : Full contact  
**Manufacturer** : KCL 741 Dermatrill® L

**Material** : Nitrile rubber  
**Break through time** : 480 min  
**Glove thickness** : 0.11 mm  
**Protective index** : Splash contact  
**Manufacturer** : KCL 741 Dermatrill® L

**Remarks** : 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 and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D 36124 Eichenzell, Internet: www.kcl.de).



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Reagents | BioSciences | Nano Products | Labware

Respiratory protection : required when dusts are generated.  
Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Recommended Filter : Filter type P3  
type:

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Hygiene measures : Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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

Appearance : powder

Color : colourless

Odor : odourless

Odor Threshold : Not applicable

pH : 5.0 - 6.5 (25 °C)  
Concentration: 50 g/l

Melting point/ range : 452 °C  
Method: lit.

Boiling point/boiling range: No data available

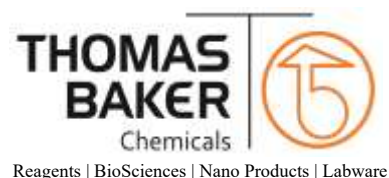
Flash point : Not applicable



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|                                                     |                                                  |
|-----------------------------------------------------|--------------------------------------------------|
| Evaporation rate                                    | : No data available                              |
| Burning rate                                        | : No data available                              |
| Upper explosion limit /<br>Upper flammability limit | : Not applicable                                 |
| Lower explosion limit /<br>Lower flammability limit | : Not applicables                                |
| Vapor pressure                                      | : 1 hPa (197.7 °C)                               |
| Relative vapour density                             | : No data available                              |
| Relative density                                    | : No data available                              |
| Density                                             | : 2.43 g/cm <sup>3</sup> (25 °C)<br>Method: lit. |
| Solubility(ies)<br>Water solubility                 | : 970 g/l (25 °C)                                |
| Partition coefficient: n-<br>octanol/water          | : Not applicable for inorganic substances        |
| Autoignition temperature                            | : Not applicable                                 |
| Decomposition tempera<br>ture                       | : No data available                              |
| Viscosity, dynamic                                  | : No data available                              |
| Viscosity, kinematic                                | : No data available                              |
| Flow time                                           | : No data available                              |



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Explosive properties : Method: Explosive properties  
GLP: yes

Oxidizing properties : none

Surface tension : 72.9 mN/m, 0.4 g/l, 20 °C, Surface tension, GLP: yes

Molecular weight : 97.94 g/mol

Particle characteristics : No data available

Particle size

## **SECTION 10: STABILITY AND REACTIVITY**

### **10.1. Reactivity**

No data available

### **10.2. Chemical stability**

The product is chemically stable under standard ambient conditions (room temperature) .

### **10.3. Possibility of hazardous reactions**

Risk of explosion with:  
halogen-halogen compounds  
Potassium  
Violent reactions possible with:  
Strong acids  
strong alkalis

### **10.4. Conditions to avoid**

Avoid moisture.  
no information available

### **10.5. Incompatible materials**

No data available

### **10.6. Hazardous decomposition products**

For Hazardous combustion products in the event of fire: see section 5



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## **SECTION 11: TOXICOLOGICAL INFORMATION**

### **11.1. Information on toxicological effects**

#### **Acute toxicity**

LD50 Oral - Rat - male and female - 2,714 mg/kg

(OECD Test Guideline 401)

LC50 Inhalation - Rat - male and female - 4 h - > 0.1 mg/l - dust/mist

(OECD Test Guideline 403)

Remarks: (highest concentration to be prepared)

LD50 Dermal - Rat - male and female - > 2,000 mg/kg

(OECD Test Guideline 402)

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

Skin - Rabbit

Result: No skin irritation - 4 h

(OECD Test Guideline 404)

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

Eyes - Rabbit

Result: Causes serious eye irritation.

(OECD Test Guideline 405)

#### **Respiratory or skin sensitization**

Maximisation Test - Guinea pig

Result: negative

(OECD Test Guideline 406)

#### **Germ cell mutagenicity**

Test Type: Ames test

Test system: Escherichia coli/Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Test Type: Chromosome aberration test in vitro

Test system: Human lymphocytes

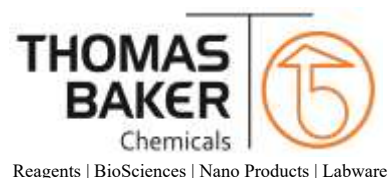
Metabolic activation: with and without metabolic activation



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Method: OECD Test Guideline 473

Result: negative

Test Type: In vitro mammalian cell gene mutation test

Test system: Mouse lymphoma test

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

Test Type: Micronucleus test

Species: Mouse

Cell type: Bone marrow

Application Route: Oral

Method: OECD Test Guideline 474

Result: negative

## **Carcinogenicity**

No data available

## **Reproductive toxicity**

May damage the unborn child.

May damage fertility. Studies indicating a hazard to babies during the lactation period

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

May cause drowsiness or dizziness.

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

Causes damage to organs through prolonged or repeated exposure.

- Nervous system

## **Aspiration hazard**

No data available



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## 11.2 Additional Information

Repeated dose toxicity - Rat - female - Oral - 90 Days - No observed adverse effect level - 100 mg/kg - Lowest observed adverse effect level - 225 mg/kg

RTECS: BO9155000

Bronchitis., Confusion., Tremors, Headache, Anorexia.

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

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

#### Components:

#### **ammonium bromide:s**

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill)): > 1,000 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: US-EPA  
GLP: yes

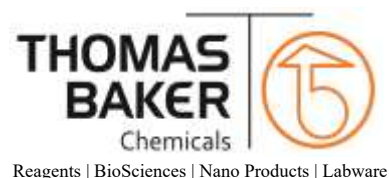
Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): >= 1,000 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: US-EPA  
GLP: yes  
Remarks: (in analogy to similar products)  
The value is given in analogy to the following substances: sodium bromide

Toxicity to algae/aquatic Plants : ErC50 (Skeletonema costatum (marine diatom)): > 400 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes  
Remarks: (in analogy to similar products)  
The value is given in analogy to the following substances: sodium bromide



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Toxicity to fish (Chronic toxicity) : NOEC (Poecilia reticulata (guppy)): 10 mg/l  
Exposure time: 124 d  
Test Type: semi-static test  
Remarks: (in analogy to similar products) (ECHA)  
The value is given in analogy to the following substances: sodium bromide

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 7.5 mg/l  
End point: reproduction rate  
Exposure time: 21 d  
Test Type: semi-static test  
Remarks: (in analogy to similar products) (ECHA)  
The value is given in analogy to the following substances: sodium bromide

Toxicity to microorganisms : EC50 (activated sludge): 1,739.4 mg/l  
Exposure time: 3 h  
Test Type: static test  
Method: OECD Test Guideline 209  
GLP: yes.

## 12.2 Persistence and degradability

### Components:

#### **ammonium bromide:**

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

## 12.3 Bioaccumulative potential

### Components:

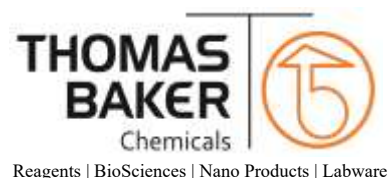
#### **ammonium bromide:**

Partition coefficient: n-octanol/water : Remarks: Not applicable for inorganic substances



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## 12.4 Mobility in soil

No data available

## Other adverse effects

No data available

## Endocrine disrupting properties

No data available

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

#### Disposal methods

Waste from residues

: Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

According to Quality Environment Regulation (Scheduled Waste) 2005, waste need to be sent to designated premise for recycle, treatment or disposal. Please contact Kualiti Alam for waste classification and correct disposal method.



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## **SECTION 14: TRANSPORT INFORMATION**

### **14.1 UN number**

ADR/RID: UN 2672                      IMDG: UN 2672                      IATA: UN 2672

### **14.2 UN proper shipping name**

ADR/RID: AMMONIA SOLUTION  
IMDG : AMMONIA SOLUTION  
IATA : Ammonia solution

### **14.3 Transport hazard class(es)**

ADR/RID: 8                                  IMDG: 8                                  IATA: 8

### **14.4 Packaging group**

ADR/RID: III                                  IMDG: III                                  IATA: III

### **14.5 Environmental hazards**

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

### **14.6 Special precautions for user**

Remarks : Not classified as dangerous in the meaning of  
transport regulations.

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

Not applicable for product as supplied.



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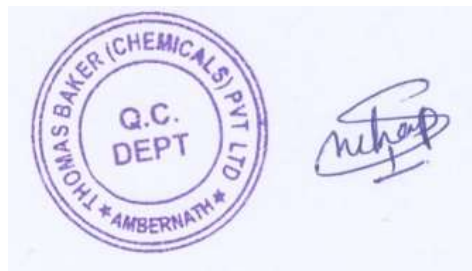
## SECTION 15: REGULATORY INFORMATION

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

## SECTION 16: OTHER INFORMATION

NA

FOR THOMAS BAKER (CHEMICALS) PVT. LTD.



**AUTHORISED SIGNATORY.**

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