



Material Safety Data Sheet

Supplier **TCI America**
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In case of Emergency Call

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SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Product name: 4-Bromobenzyl Cyanide
Product code: B1134
Company: TOKYO CHEMICAL INDUSTRY CO., LTD.
Address: 4-10-2, Nihonbashi-honcho, Chuo-ku, Tokyo 103-0023, Japan
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Revision number: 4

2. HAZARDS IDENTIFICATION

Classification of the GHS

PHYSICAL HAZARDS

Not classified

HEALTH HAZARDS

Acute toxicity (Oral)

Category 1

Acute toxicity (Dermal)

Category 1

Acute toxicity (Inhalation)

Category 1

Skin corrosion/irritation

Category 2

Serious eye damage/eye irritation

Category 2A

ENVIRONMENTAL HAZARDS

Not classified

GHS label elements

Pictograms or hazard symbols



Signal word

Danger

Hazard statement

Fatal by inhalation, in contact with skin and if swallowed
Causes skin irritation
Causes serious eye irritation

Precautionary statements

[Prevention]

Do not breathe.
Do not get in eyes, on skin, or on clothing.
Use only outdoors or in a well-ventilated area.
Do not eat, drink or smoke when using this product.
Wash hands thoroughly after handling.
Wear respiratory protection.
Wear protective gloves and eye/face protection.

2. HAZARDS IDENTIFICATION

[Response]

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

IF ON SKIN: Gently wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

Remove/Take off immediately all contaminated clothing.

Wash contaminated clothing before reuse.

Immediately call a POISON CENTER or doctor/physician.

[Storage]

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

Store locked up.

[Disposal]

Dispose of contents/container through a waste management company authorized by the local government.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture:	Substance
Component(s):	4-Bromobenzyl Cyanide
Percent:	>98.0%(GC)
CAS Number:	16532-79-9
Synonyms:	4-Bromophenylacetonitrile
Chemical Formula:	C ₈ H ₆ BrN
Notice Through Official Gazettes Reference Number	
ENCS:	Not Listed
ISHL:	4-(7)-821

4. FIRST-AID MEASURES

Inhalation:

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

Skin contact:

Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/physician.

Eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

Ingestion:

Immediately call a POISON CENTER or doctor/physician. Rinse mouth.

Symptoms/effects:

burning sensation, cough, asthma, laryngitis, shortness of breath, headache, nausea, vomiting

Protection of first-aiders:

First aider needs to protect himself.

A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Dry chemical, foam, water spray, carbon dioxide.

Specific hazards:

Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.

Specific methods:

Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so.

Special protective equipment for firefighters:

When extinguishing fire, be sure to wear personal protective equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	Use extra personal protective equipment (self-contained breathing apparatus). Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.
Environmental precautions:	Prevent product from entering drains.
Methods and materials for containment and cleaning up:	Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

7. HANDLING AND STORAGE

Handling

Technical measures:	Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent dispersion of dust. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a local exhaust if dust or aerosol will be generated.
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Advice on safe handling: Avoid contact with skin, eyes and clothing.

Storage

Storage conditions:	Keep container tightly closed. Store in a cool, dark and well-ventilated place. Store locked up.
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Store away from incompatible materials such as oxidizing agents.

Packaging material: Law is followed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: Install a closed system or local exhaust. Also install safety shower and eye bath.

Control parameters: Not set up

Personal protective equipment

Respiratory protection: Dust respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.

Hand protection: Impervious gloves.

Eye protection: Safety goggles. A face-shield, if the situation requires.

Skin and body protection: Impervious protective clothing. Protective boots, if the situation requires.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C):	Solid
Form:	crystal - powder
Color:	White - Very pale yellow
Odor:	No data available
pH:	No data available
Melting point/freezing point:	49°C
Boiling Point/Range:	118°C/0.4kPa
Flash Point:	No data available
Explosive limits	
Lower:	No data available
Upper:	No data available
Vapor Density:	6.8
Density:	No data available
Solubility:	Soluble in : Alcohol Ether Chloroform Acetone Very slightly soluble in: Water

10. STABILITY AND REACTIVITY

Stability: Stable under proper conditions.

Reactivity: No special reactivity has been reported.

Incompatible materials: oxidizing agents, strong bases

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Nitrogen oxides (NOx), Hydrogen bromide, Hydrogen cyanide

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: ivn-mus LD50:56 mg/kg

11. TOXICOLOGICAL INFORMATION

Skin corrosion/irritation:	No data available
Serious eye damage/irritation:	No data available
Germ cell mutagenicity:	No data available
Carcinogenicity:	
IARC =	No data available
NTP =	No data available
Reproductive toxicity:	No data available
RTECS Number:	AL8090000

12. ECOLOGICAL INFORMATION

Ecotoxicity:	
Fish:	No data available
Crustacea:	No data available
Algae:	No data available
Persistence / degradability:	No data available
Bioaccumulative potential(BCF):	No data available
Mobility in soil	
log Pow:	No data available
Soil adsorption (Koc):	No data available
Henry's Law constant(PaM³/mol):	No data available

13. DISPOSAL CONSIDERATIONS

Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

14. TRANSPORT INFORMATION

Hazards Class:	6.1: Toxic substance.
UN-No:	3449
Proper shipping name:	Bromobenzyl cyanides, solid
Packing group:	I

15. JAPANESE REGULATORY INFORMATION

Poisonous and Deleterious Substances Control Law:	on Deleterious Substances List.
Law for safety of vessels:	Hazardous materials notification, Schedule form No.1 Toxic substance

16. OTHER INFORMATION

The reference company name of written contents	
Company:	TOKYO CHEMICAL INDUSTRY CO., LTD.
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Department:	Global Business Department
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This SDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. Products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.