

# Material Safety Data Sheet

Created: 07/12/2013

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## Section 1 - IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY

MSDS Name: Bromoethane

Synonym: Ethyl Bromide

Supplier: Nanjing Chemical Material Corp.

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## Section 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Chemical Name	Content	EINECS#
74-96-4	Bromoethane	99%	200-825-8

## Section 3 - HAZARDS IDENTIFICATION

Pictogram:



Signal word: Danger

H225 Highly flammable liquid and vapour

H302 Harmful if swallowed

H332 Harmful if inhaled

H351 Suspected of causing cancer

Precautionary statements:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233 Keep container tightly closed.

- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical/ventilating/lighting/equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264 Wash 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 protective gloves/protective clothing/eye protection/face protection.
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P301+P312 IF SWALLOWED: Call a POISON CENTER/ doctor/if you feel unwell.
- P308+P313 IF exposed or concerned: Get medical advice/ attention.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

#### **Section 4 - FIRST AID MEASURES**

Eyes:

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin:

Get medical aid. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion:

If victim is conscious and alert, give 2-4 cupfuls of milk or water.

Never give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation:

Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician:

#### **Section 5 - FIRE FIGHTING MEASURES**

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media:

Use carbon dioxide or dry chemical. DO NOT USE WATER!

#### **Section 6 - ACCIDENTAL RELEASE MEASURES**

**Personal precautions:**

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapors can accumulate in low areas.

**Environmental precautions:**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**Methods for cleaning up:**

Pick up and arrange disposal. Keep in suitable, closed containers for disposal

**Section 7 - HANDLING AND STORAGE**

Handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.
Storage	Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

**Section 8 - Exposure Controls, Personal Protection**

Engineering Controls	Safety shower and eye bath. Mechanical exhaust required.
Respiratory protection	Use a full-face supplied air respirator.
Eye protection	Wear chemical goggles.
Hand Protection	Wear impervious chemical resistant gloves
Body protection	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Section 9 - Exposure Controls, Personal Protection**

Appearance: Colorless transparent liquid	Odor: No data available
Melting point (°C) : No data available	Relative density (g/cm <sup>3</sup> ) : 1.46
Boiling point (°C) : 38.4	Relative density of steam distillation (g/mL) : N/A
Saturated vapor pressure(Kpa): N/A	Heat of combustion (kJ/mol) : N/A
Flash point (°C) : -23 (closed cup)	Critical pressure (Mpa) : N/A
Ignition temperature (°C) : N/A	Upper explosive limit% (V/V) : 11.3
Partition coefficient octanol/water: N/A	Lower explosive limit% (V/V) : 6.7

**Section 10 - Exposure Controls, Personal Protection****Chemical Stability:**

Stable under normal temperatures and pressures.

**Conditions to Avoid:**

High temperatures, mechanical shock, incompatible materials, ignition sources, exposure to moist air or water.

**Incompatibilities with Other Materials:**

Strong bases, strong oxidizers, magnesium, and water.

Hazardous Decomposition Products:  
Carbon monoxide, carbon dioxide, hydrogen bromide.  
Hazardous Polymerization: Has not been reported

### **Section 11 - Toxicological Information**

Acute toxicity: LD50 (rat, oral) 1350 mg/kg; LC50 (rat, inhalation, 1h) 26980 mg/L  
Skin corrosion/irritation: No data available  
Serious eye damage/eye irritation: No data available Respiratory or skin sensitization: No data available.  
Germ cell mutagenicity: No data available Carcinogenicity: No data available  
Reproductive toxicity: No data available  
Specific target organ toxicity – single exposure: No data available Specific target organ toxicity – repeated exposure: No data available Aspiration hazard: No data available

### **Section 12 - Ecological Information**

Ecotoxicity: No data available  
Biodegradability: No data available  
Abiotic degradation: No data available  
Bioaccumulation: No data available

### **Section 13 - Disposal Consideration**

Dispose of in a manner consistent with federal, state, and local regulations.

### **Section 14 - Transport Information**

UN number: 1891  
UN proper shipping name: ETHYL BROMIDE  
Transportation primary hazard class: 6.1  
Packing group: II

### **Section 15 - Regulatory Information**

European/International Regulations  
European Labeling in Accordance with EC Directives  
Hazard Symbols: XN F  
Risk Phrases:  
R 11 Highly flammable.  
R 20/22 Harmful by inhalation and if swallowed.  
R 40 Limited evidence of a carcinogenic effect.  
Safety Phrases:  
S 36/37 Wear suitable protective clothing and gloves.  
WGK (Water Danger/Protection)  
CAS# 74-96-4: 2  
Canada  
CAS# 74-96-4 is listed on Canada's DSL List.  
CAS# 74-96-4 is listed on Canada's Ingredient Disclosure List.  
US FEDERAL

TSCA

CAS# 74-96-4 is listed on the TSCA inventory

**Section 16 - Additional Information**

References: Not available.

Other Special Considerations: Not available.

