**Benzene,1,2,3,4,5,6-hexabromo- (cas 87-82-1) MSDS**

1 - Product and Company Information

Product Name HEXABROMOBENZENE, 98%
Product Number 107131

2 - Composition/Information on Ingredients

Product Name CAS # EC no Annex I
Index Number HEXABROMOBENZENE 87-82-1 201-773-9 None

Formula C6Br6
Molecular Weight 551.49 AMU

3 - Hazards Identification

**SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT**
Harmful by inhalation, in contact with skin and if swallowed.
Irritating to eyes, respiratory system and skin.

4 - First Aid Measures

**AFTER INHALATION**
If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

**AFTER SKIN CONTACT**
In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

**AFTER EYE CONTACT**
In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

**AFTER INGESTION**
If swallowed, wash out mouth with water provided person is conscious. Call a physician.

5 - Fire Fighting Measures

**EXTINGUISHING MEDIA**
Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

**SPECIAL RISKS**
Specific Hazard(s): Emits toxic fumes under fire conditions.

**SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS**
Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6 - Accidental Release Measures

**PERSONAL PRECAUTION PROCEDURES TO BE FOLLOWED IN CASE OF LEAK OR SPILL**
Evacuate area.

**PROCEDURE(S) OF PERSONAL PRECAUTION(S)**
Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP
Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

7 - Handling and Storage

HANDLING
Directions for Safe Handling: Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

STORAGE
Conditions of Storage: Keep tightly closed.

8 - Exposure Controls / Personal Protection

ENGINEERING CONTROLS
Safety shower and eye bath. Mechanical exhaust required.

GENERAL HYGIENE MEASURES
Wash thoroughly after handling.

PERSONAL PROTECTIVE EQUIPMENT
Respiratory Protection: Government approved respirator.
Hand Protection: Compatible chemical-resistant gloves.
Eye Protection: Chemical safety goggles.

9 - Physical and Chemical Properties

Appearance Physical State: Solid
Color: Faintly beige
Form: Fine crystals

Property Value At Temperature or Pressure

pH N/A
BP/BP Range N/A
MP/MP Range 300 ??C
Flash Point N/A
Flammability N/A

Autoignition Temp N/A
Oxidizing Properties N/A
Explosive Properties N/A
Explosion Limits N/A
Vapor Pressure N/A
SG/Density N/A
Viscosity N/A
Vapor Density N/A
Saturated Vapor Conc. N/A
Evaporation Rate N/A
Bulk Density N/A
Decomposition Temp. N/A
Solvent Content N/A
Water Content N/A
Surface Tension N/A
Conductivity N/A
Miscellaneous Data N/A
Solubility N/A

10 - Stability and Reactivity
STABILITY
Stable: Stable.
Materials to Avoid: Oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS
Hazardous Decomposition Products: Hydrogen bromide gas Carbon monoxide, Carbon dioxide.

HAZARDOUS POLYMERIZATION
Hazardous Polymerization: Will not occur

11 - Toxicological Information

ACUTE TOXICITY

TDLo
Intraperitoneal
Rat
150 mg/kg

TDLo
Oral
Rat
5600 mg/kg
14
TDLo
Oral
Rat
225 mg/kg
3
TDLo
Oral
Rat
525 mg/kg
14
TDLo
Oral
Rat
3024 mg/kg
12W

TDLo
Oral
chicken
52500 mg/kg
12W

TDLo
Oral
Quail
1500 mg/kg
15

SENSITIZATION
Respiratory: Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.
Skin: Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

SIGNS AND SYMPTOMS OF EXPOSURE
Circulatory collapse. May cause cyanosis (blue-gray coloring of skin and lips caused by lack of oxygen). Dyspnea. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Diarrhea.
Tremors. Dizziness, headache, drowsiness, muscle weakness, and skin reaction. Abdominal pain, nausea, vomiting. May cause convulsions.
ROUTE OF EXPOSURE
Skin Contact: Causes skin irritation.
Skin Absorption: Harmful if absorbed through skin.
Eye Contact: Causes eye irritation.
Inhalation: Material is irritating to mucous membranes and upper respiratory tract. Harmful if inhaled.
Ingestion: Harmful if swallowed.

TARGET ORGAN INFORMATION
Liver.

CHRONIC EXPOSURE - TERATOGEN
Species: Rat
Dose: 200MG
Route of Application: Oral
Exposure Time: DAYS 6-15 OF GESTATION

12 - Ecological Information
No data available.

13 - Disposal Considerations
SUBSTANCE DISPOSAL
Contact a licensed professional waste disposal service to dispose of this material. Disperse or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

14 - Transport Information
RID/AD UN#: 3077
Class: 9
PG: III
Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s

IMDG
UN#: 3077
Class: 9
PG: III
Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s
Marine Pollutant: No
Severe Marine Pollutant: Yes
Technical Name: Required

IATA
UN#: 3077
Class: 9
PG: III
Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s
Inhalation Packing Group I: No
Technical Name: Required

15 - Regulatory Information
CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES
INDICATION OF DANGER: Xn
Harmful.
R-PHRASES: 20/21/22-36/37/38
Harmful by inhalation, in contact with skin and if swallowed.
Irritating to eyes, respiratory system and skin.
S-PHRASES: 26-36/37
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing and gloves.

16 - Other Information

WARRANTY
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.
Copyright 2005 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

DISCLAIMER For R&D use only. Not for drug, household or other uses.