IDENTIFICATION

MSDS Record Number: 4630825
Product Name(s): Allyl Bromide
Product Identification: CAS NO.: 106-95-6
Date of MSDS: 2002-03-11
Currency Note: This MSDS was provided to CCOHS on 2005-06-10

MANUFACTURER/SUPPLIER INFORMATION

Company: ALBEMARLE CORP

MATERIAL SAFETY DATA

48.0.12 ETH 6012 Allyl Bromide 03/11/02CN

ALBEMARLE CORPORATION
MATERIAL SAFETY DATA SHEET
451 FLORIDA STREET, BATON ROUGE, LA 70801
FOR EMERGENCIES ONLY - Phone (225) 344-7147
For Non-emergency Health & Safety Phone 1-800-535-3030
Representing Albemarle Foreign Sales Corporation for Export Sales

HMIS CLASSIFICATIONS: ISSUE DATE: 03/11/02
HEALTH: 2 SUPERSEDES: 01/11/99
FLAMMABILITY: 3
REACTIVITY: 0

48.0.12

PRODUCT IDENTIFICATION
PRODUCT NAME: Allyl Bromide
CHEMICAL NAME: Allyl Bromide
CAS NO.: 106-95-6
SYNONYMS: Bromo-3, propene-1
CHEMICAL FORMULA: C3H5Br

SUMMARY OF HAZARDS
FLAMMABLE!
Toxic by ingestion.
Causes irritation to the eyes, skin, and respiratory tract.
See "Chronic Effects of Overexposure."

OSHA HAZARDOUS COMPONENTS

<table>
<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>CAS NO.</th>
<th>NOTE</th>
<th>EXPOSURE LIMIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allyl bromide</td>
<td>106-95-6</td>
<td>ND</td>
<td>Not established</td>
</tr>
</tbody>
</table>
CHEMICAL AND PHYSICAL PROPERTIES

APPEARANCE/ODOR: Colorless to pale yellow liquid/very strong, unpleasant and pungent odor.
BOILING POINT: 71°C/160°F.

EMERGENCY PHONE NUMBER  PRODUCT NAME: Allyl Bromide
(225) 344-7147

CHEMICAL AND PHYSICAL PROPERTIES (Con't)

VAPOR PRESSURE: Not established.
SOLUBILITY IN WATER: Very slightly soluble.
SPECIFIC GRAVITY: 1.41.
MELTING POINT: -119°C.

FIRE AND EXPLOSION HAZARDS

FLASH POINT (METHOD): -1°C/30°F (CC).
FLAMMABLE LIMITS: Not established.
EXTINGUISHING MEDIA: Dry chemical, water spray (fog), foam or carbon dioxide.
SPECIAL FIRE FIGHTING PROCEDURES: Use self-contained breathing apparatus.
HAZARDOUS THERMAL DECOMPOSITION PRODUCTS: Include oxides of carbon, hydrogen bromide and bromine.
UNUSUAL FIRE AND EXPLOSION HAZARDS: None known.

REACTIVITY DATA

STABILITY: Stable.
CONDITIONS TO AVOID: Avoid all sources of ignition such as heat, spark, open flame and static electricity.
MATERIALS TO AVOID: Strong oxidizing materials, strong bases, mineral acid chlorides.
HAZARDOUS POLYMERIZATION: Will not occur.

HEALTH HAZARDS

INHALATION: Expected to be irritating to respiratory tract. Symptoms of overexposure to vapors include drowsiness.

EMERGENCY PHONE NUMBER  PRODUCT NAME: Allyl Bromide
(225) 344-7147

HEALTH HAZARDS (Con't)

weakness, headache, dizziness and nausea.
EYE CONTACT: Expected to be an eye irritant. Vapor causes lacrimation - excess tearing.
SKIN CONTACT: Expected to be a skin irritant.
INGESTION: Expected to be toxic.
CHRONIC EFFECTS OF OVEREXPOSURE: Chronic effects of repeated exposures to high concentrations may include damage to kidneys and liver.

EMERGENCY FIRST AID PROCEDURES

INHALATION: Remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Get medical attention.
EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
SKIN CONTACT: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated
clothing and shoes. Get medical attention. Wash clothing before reuse.

INGESTION: Induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person. Get medical attention.

---

EXPOSURE CONTROL INFORMATION
EXPOSURE LIMITS: Not established by OSHA/ACGIH.
EYE PROTECTION: Chemical goggles and face shield.
PROTECTIVE GLOVES: Resistant to chemical penetration.
RESPIRATORY PROTECTION: Full facepiece, NIOSH approved organic vapor respirator.

03/11/02
Page 4 of 6

EMERGENCY PHONE NUMBER  PRODUCT NAME:  Allyl Bromide
(225) 344-7147

48.0.12

---

EXPOSURE CONTROL INFORMATION (Con't)
LOCAL EXHAUST VENTILATION: At source of vapor.
MECHANICAL VENTILATION: Recommended.
OTHER: If skin contact or contamination of clothing is likely, protective clothing should be worn.

---

ENVIRONMENTAL PROTECTION
SPILLS OR LEAKS: Ventilate area. Remove sources of ignition. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Take up small spills with dry chemical absorbent. Large spills may be taken up with pump or vacuum and finished off with dry chemical absorbent. May require excavation of contaminated soil.

DISPOSAL METHODS: Under the CERCLA/RCRA regulations currently in effect, this material is regulated as a hazardous waste or material. Therefore, it must be disposed of in a 'permitted' hazardous waste facility in compliance with EPA and/or other applicable local, state, and federal regulations. It should be handled in a manner acceptable to good waste management practice. (RQ = 100 pounds for ignitability).

STORAGE REQUIREMENTS: Store in cool, dry, well-ventilated area away from sources of ignition. Keep containers closed when not in use.

---

REGULATORY INFORMATION
TSCA:
THIS MATERIAL IS IN COMPLIANCE WITH THE TOXIC SUBSTANCES CONTROL ACT (15 USC 2601 - 2629).

03/11/02
Page 5 of 6

EMERGENCY PHONE NUMBER  PRODUCT NAME:  Allyl Bromide
(225) 344-7147

48.0.12

---

REGULATORY INFORMATION (Con't)
DOT DESCRIPTION/PROPER SHIPPING NAME:
Allyl bromide

DOT HAZARD CLASS: 3 (flammable)  6.1 (toxic)
DOT ID NUMBER:  UN1099
DOT PACKING GROUP: I

---

HAZARD CATEGORIES FOR SARA 311/312 REPORTING ARE INDICATED BELOW:

<table>
<thead>
<tr>
<th>CATEGORY</th>
<th>ALLOY</th>
<th>BROMINE</th>
<th>DIOXYGEN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health (Acute)</td>
<td>Immediate</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Health (Chronic)</td>
<td>Delayed</td>
<td>Yes</td>
<td></td>
</tr>
</tbody>
</table>
physical
fire
Yes

sudden release of pressure
no

reactive
no

nuisance mist/dust only
no

component name          cas no.          percentage  regulation
------------------------  -------------  ----------  --------------
allyl bromide           106-95-6       100.0       nj rtk-shh
                                      pa rtk

03/11/02
page 6 of 6

emergency phone number  product name: allyl bromide
(225) 344-7147

48.0.12

msds prepared by: health & environment department
albemarle corporation

for additional nonemergency product information, contact:

health and environment department
albemarle corporation
451 florida st.
baton rouge, la. 70801
(800) 535-3030

this material safety data sheet contains at least
the information required by the federal osha hazard
communication rule, 29 cfr 1910.1200(g) (2).

the responsibility to provide a safe workplace remains with
user. the user should consider the health hazards and safety
information contained herein as a guide and should take
those precautions required in an individual operation to
instruct employees and to develop work practice procedures
for a safe work environment.

the information contained herein is, to the best of our
knowledge and belief, accurate. however, because the
conditions of handling and use are beyond our control, we
make no guarantee of results, and assume no liability for
damages incurred by the use of this material. it is the
responsibility of the user to comply with all federal,
state, and local laws and regulations.

03/11/02

october, 2007 issue

©2007 canadian centre for occupational health & safety

www.ccohs.ca  e-mail: clientservice@ccohs.ca  fax: (905) 572-2206  phone: (905) 572-2981
mail: 135 hunter street east, hamilton ontario l8n 1m5