ACROS ORGANICS

Material Safety Data Sheet

Allyl bromide, stabilized

MSDS# 30891

Section 1 - Chemical Product and Company Identification

MSDS Name:	Allyl bromide, stabilized
Catalog Numbers:	AC102900000, AC102900025, AC102900050, AC102900500, AC102902500, AC102905000 AC102905000
Synonyms:	3-Bromopropene.

Company Identification:	Acros Organics BVBA Janssen Pharmaceuticalaan 3a 2440 Geel, Belgium
Company Identification: (USA)	Acros Organics One Reagent Lane Fair Lawn, NJ 07410
For information in the US, call:	800-ACROS-01
For information in Europe, call:	+32 14 57 52 11
Emergency Number, Europe:	+32 14 57 52 99
Emergency Number US:	201-796-7100
CHEMTREC Phone Number, US:	800-424-9300
CHEMTREC Phone Number, Europe:	703-527-3887

Section 2 - Composition, Information on Ingredients

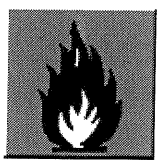
Risk Phrases:

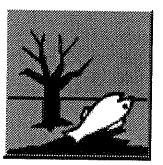
CAS#:	106-95-6
Chemical Name:	Allyl bromide
%:	99
EINECS#:	203-446-6

Hazard Symbols:

Text for R-phrases: see Section 16

Hazard Symbols: T F N





Risk Phrases: 11 23/25 34 50

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Danger! Stench. Causes burns by all exposure routes. Toxic if swallowed. Toxic if inhaled. Flammable liquid and vapor. Very toxic to aquatic organisms. Target Organs: Respiratory system, gastrointestinal system, eyes, skin.

Potential Health Effects

Eye:	Causes eye burns. Lachrymator (substance which increases the flow of tears).
Skin:	Causes skin burns. May be harmful if absorbed through the skin.
Ingestion:	Causes gastrointestinal tract burns. Toxic if swallowed.
Inhalation:	Causes chemical burns to the respiratory tract. Toxic if inhaled.
Chronic:	Laboratory experiments have resulted in mutagenic effects.

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

Ingestion: Do not induce vomiting. Get medical aid immediately. Call a poison control center.

Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

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. Vapors may form an explosive mixture with air. Vapors can travel to a source of ignition and flash back. Will burn if involved in a fire. Containers may explode in the heat of a fire. Flammable liquid and vapor.

Extinguishing Media: Use water spray to cool fire-exposed containers. Use foam, dry chemical, or carbon dioxide. Water may be ineffective.

Autoignition Temperature: 295 deg C (563.00 deg F)

Flash Point: -1 deg C (30.20 deg F)

Explosion Limits: Lower: 4.4

Explosion Limits: Upper: 7.3

NFPA Rating: health: 3; flammability: 3; instability: 1;

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Wear a self contained breathing apparatus and appropriate personal protection. (See Exposure Controls, Personal Protection section). Remove all sources of ignition. Do not let this chemical enter the environment.

Section 7 - Handling and Storage

Handling: Use spark-proof tools and explosion proof equipment. Do not get in eyes, on skin, or on clothing. Keep away from heat, sparks and flame. Do not ingest or inhale. Use only in a chemical fume hood.

Storage: Keep away from sources of ignition. Store in a cool, dry place. Store in a tightly closed container. Flammables-area.

Section 8 - Exposure Controls, Personal Protection

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Propylene oxide	2 ppm	400 ppm IDLH	100 ppm TWA; 240 mg/m3 TWA
Allyl bromide	none listed	none listed	none listed

OSHA Vacated PELs: Propylene oxide: 20 ppm TWA; 50 mg/m3 TWA Allyl bromide: None listed

Engineering Controls:

Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use only under a chemical fume hood.

Exposure Limits

Personal Protective Equipment

Eyes:	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin:	Wear appropriate protective gloves to prevent skin exposure.
Clothing:	Wear appropriate protective clothing to prevent skin exposure.
Respirators:	A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Section 9 - Physical and Chemical Properties

Physical State: Liquid
Color: clear, colorless
Odor: stench
pH: Not available
Vapor Pressure: 147 mbar @ 20 deg C
Vapor Density: 4.2
Evaporation Rate: Not available
Viscosity: Not available
Boiling Point: 70 - 71 deg C @ 760 mmHg
Freezing/Melting Point: -119 deg C (-182.20°F)
Decomposition Temperature: Not available
Solubility in water: Insoluble
Specific Gravity/Density: 1.390
Molecular Formula: C3H5Br
Molecular Weight: 120.98

Section 10 - Stability and Reactivity

Chemical Stability:	Light sensitive.
Conditions to Avoid:	Incompatible materials, light, ignition sources, excess heat.
Incompatibilities with Other Materials	Strong oxidizing agents, strong bases.
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide, hydrogen bromide.
Hazardous Polymerization	May occur.

Section 11 - Toxicological Information

RTECS#: CAS# 75-56-9: TZ2975000
CAS# 106-95-6: UC7090000

LD50/LC50:
RTECS:
CAS# 75-56-9: Draize test, rabbit, eye: 20 mg Severe;
Draize test, rabbit, eye: 20 mg/24H Moderate;
Draize test, rabbit, skin: 50 mg/6M Severe;
Inhalation, mouse: LC50 = 1740 ppm/4H;
Inhalation, rat: LC50 = 4000 ppm/4H;
Oral, mouse: LD50 = 440 mg/kg;
Oral, rat: LD50 = 380 mg/kg;
Skin, rabbit: LD50 = 1500 uL/kg;

RTECS:
CAS# 106-95-6: Inhalation, mouse: LC50 = 4110 mg/m3/2H;
Inhalation, rat: LC50 = 10 gm/m3/30M;
Inhalation, rat: LC50 = 10000 mg/m3/2H;
Oral, rat: LD50 = 120 mg/kg;

Carcinogenicity: Propylene oxide - ACGIH: A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans
California: carcinogen, initial date 10/1/88 NTP: Suspect carcinogen IARC: Group 2B carcinogen
Allyl bromide - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other: See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Other: Do not empty into drains.

Section 13 - Disposal Considerations

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

Section 14 - Transport Information

US DOT
Shipping Name: ALLYL BROMIDE
Hazard Class: 3
UN Number: UN1099
Packing Group: I
Canada TDG
Shipping Name: Not available
Hazard Class:
UN Number:
Packing Group:

USA RQ: CAS# 75-56-9: 100 lb final RQ; 45.4 kg final RQ

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: T F N

Risk Phrases:

R 11 Highly flammable.

R 23/25 Toxic by inhalation and if swallowed.

R 34 Causes burns.

R 50 Very toxic to aquatic organisms.

Safety Phrases:

S 16 Keep away from sources of ignition - No smoking.

S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

WGK (Water Danger/Protection)

CAS# 75-56-9: 2

CAS# 106-95-6: Not available

Canada

CAS# 75-56-9 is listed on Canada's DSL List

CAS# 106-95-6 is listed on Canada's NDSL List

Canadian WHMIS Classifications: B2, D1A, E

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 75-56-9 is listed on Canada's Ingredient Disclosure List

CAS# 106-95-6 is listed on Canada's Ingredient Disclosure List

US Federal

TSCA

CAS# 75-56-9 is listed on the TSCA Inventory.

CAS# 106-95-6 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date: 4/17/1998

Revision #5 Date 7/20/2009

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

REVIEWED

DATE: April 10 2012

C Rutherford