# Material Safety Data Sheet

acc. to OSHA and ANSI

Printing date 11/11/2008

Reviewed on 11/11/2008

# 1 Identification of substance:

Product details:

# Product name: 2-(2-Ethoxyethoxy)ethyl bromide

Stock number: L08522

#### Manufacturer/Supplier:

Alfa Aesar, A Johnson Matthey Company Johnson Matthey Catalog Company, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Emergency Phone: (978) 521-6300 CHEMTREC: (800) 424-9300 Web Site: www.alfa.com

Information Department:

Health, Safety and Environmental Department Product Safety Department Emergency information: During normal hours the Health, Safety and Environmental Department. After normal hours call Chemtrec at (800) 424-9300.

# 2 Composition/Data on components:

Chemical characterization: Description: (CAS#) 2-(2-Ethoxyethoxy)ethyl bromide (CAS# 54550-36-6): 100%

# 3 Hazards identification

Hazard description:



Xi Irritant

Information pertaining to particular dangers for man and environment R 36/37/38 Irritating to eyes, respiratory system and skin.

Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)

HEALTH	1
FIRE	1
REACTIVITY	1

Health (acute effects) = 1 Flammability = 1 Reactivity = 1

# 4 First aid measures

# After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. After skin contact Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.

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### Product name: 2-(2-Ethoxyethoxy)ethyl bromide

After swallowing Seek immediate medical advice.

### 5 Fire fighting measures

Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards caused by the material, its products of combustion or resulting gases: In case of fire, the following can be released: Carbon monoxide and carbon dioxide Hydrogen bromide (HBr) Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.

### 6 Accidental release measures

Person-related safety precautions: Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Measures for environmental protection: Do not allow material to be released to the environment without proper governmental permits. Measures for cleaning/collecting: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation. Additional information: See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

### 7 Handling and storage

Handling Information for safe handling: Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Information about protection against explosions and fires: Keep ignition sources away. Storage

Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Store away from oxidizing agents. Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed containers.

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8 E	xposure controls and personal protection
Pi	<b>dditional information about design of technical systems:</b> roperly operating chemical fume hood designed for hazardous chemicals nd having an average face velocity of at least 100 feet per minute.
No	omponents with limit values that require monitoring at the workplace: ot required. dditional information: No data
Ge Th fc Ke Re Wa As Bu Us Ch Ch In Ma Th a S Th S S	ersonal protective equipment eneral protective and hygienic measures he usual precautionary measures for handling chemicals should be ollowed. eep away from foodstuffs, beverages and feed. emove all soiled and contaminated clothing immediately. ash hands before breaks and at the end of work. void contact with the eyes and skin. reathing equipment: se suitable respirator when high concentrations are present. rotection of hands: heck protective gloves prior to each use for their proper condition. mpervious gloves aterial of gloves he selection of suitable gloves not only depends on the material, but lso on quality. Quality will vary from manufacturer to manufacturer. ye protection: Safety glasses ody protection: Protective work clothing.

# 9 Physical and chemical properties:

Form:	Liquid
Color:	Colorless
Odor:	Not determined
Change in condition	
Melting point/Melting range:	Not determined
Boiling point/Boiling range:	86-88°C (187-190°F) (12 mmHg)
Sublimation temperature / start:	Not determined
Flash point:	Not determined
Ignition temperature:	Not determined
Decomposition temperature:	Not determined
Danger of explosion:	Product does not present an
	explosion hazard.
Explosion limits:	
Lower:	Not determined
Upper:	Not determined
Vapor pressure:	Not determined
Density:	Not determined

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Product name: 2-(2-Ethoxyethoxy)ethyl bromide

Solubility in / Miscibility with Water:

Not miscible or difficult to mix

### 10 Stability and reactivity

Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Materials to be avoided: Oxidizing agents Dangerous reactions No dangerous reactions known Dangerous products of decomposition: Carbon monoxide and carbon dioxide Hydrogen bromide

11 Toxicological information

Acute toxicity: Primary irritant effect: on the skin: Irritant to skin and mucous membranes. on the eye: Irritating effect. Sensitization: No sensitizing effects known. Subacute to chronic toxicity: Other than potential irritation (see above), no information on illness or injury to humans from acute or chronic exposure to this product is available. Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

#### 12 Ecological information:

#### General notes:

Do not allow material to be released to the environment without proper governmental permits.

#### 13 Disposal considerations

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Product:
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#### Recommendation

Consult state, local or national regulations to ensure proper disposal.

### Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

#### 14 Transport information

Not a hazardous material for transportation.

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Product name: 2-(2-Ethoxyethoxy)ethyl bromide

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DOT regulations: Hazard class: None

Land transport ADR/RID (cross-border) ADR/RID class:

None

Maritime transport IMDG: IMDG Class: None

Air transport ICAO-TI and IATA-DGR: ICAO/IATA Class: None

Transport/Additional information: Not dangerous according to the above specifications.

#### 15 Regulations

Product related hazard informations:

Hazard symbols: Xi Irritant

#### Risk phrases:

36/37/38 Irritating to eyes, respiratory system and skin.

#### Safety phrases:

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

37 Wear suitable gloves.

#### National regulations

This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only. Some or all of the components of this product are not listed on the Canadian Domestic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL).

Information about limitation of use: For use only by technically qualified individuals.

#### 16 Other information:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Department issuing MSDS: Health, Safety and Environmental Department. Contact: Paul V. Connolly