SIGMA-ALDRICH

Material Safety Data Sheet

Version 3.0 Revision Date 08/22/2009 Print Date 07/28/2010

			Print Date	07/28/2010		
1. PRODUCT AND COMPANY IDENTIFICATION						
Product name	: Isobutylamine					
Product Number Brand	: I14150 : Aldrich					
Company	: Sigma-Aldrich 3050 Spruce Stre SAINT LOUIS M USA					
Telephone Fax	: +18003255832 : +18003255052					
Emergency Phone #	: (314) 776-6555					
Emergency Phone #	. (314) 770-0000					
2. COMPOSITION/INFORMA	TION ON INGREDIENTS					
Synonyms	: 1-Amino-2-methy	/lpropane				
Formula	: C ₄ H ₁₁ N					
Molecular Weight	: 73.14 g/mol					
CAS-No.	EC-No.	Index-No.	Concentration			
Isobutylamine						
78-81-9	201-145-4	-	-			
3. HAZARDS IDENTIFICATIO	N .					
Emergency Overview						
OSHA Hazards Flammable Liquid, To:	kic by ingestion, Corrosiv	e				
HMIS Classification						
Health Hazard:	3					
Flammability:	3					
Physical hazards:	0					
NFPA Rating						
Health Hazard:	3					
Fire:	3					
Reactivity Hazard:	0					
Potential Health Effects						
Inhalation	May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.					
Skin						
Eyes	May be harmful if absorbed through skin. Causes skin burns. Causes eye burns.					
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Ingestion

Toxic if swallowed. Causes burns.

4. FIRST AID MEASURES

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Continue rinsing eyes during transport to hospital. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE-FIGHTING MEASURES

Flammable properties

Flash point -9 °C (16 °F) - closed cup

Ignition temperature no data available

Suitable extinguishing media

For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

Further information

Use water spray to cool unopened containers.

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. Vapours can accumulate in low areas.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods for cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

7. HANDLING AND STORAGE

Handling

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

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. Store in cool place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves.

Eye protection

Tightly fitting safety goggles. Faceshield (8-inch minimum).

Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	clear, liquid
Colour	colourless
Safety data	
рН	no data available
Melting point	-85 °C (-121 °F) - lit.
Boiling point	64 - 71 °C (147 - 160 °F) - lit.
Flash point	-9 °C (16 °F) - closed cup
Ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Density	0.736 g/mL at 25 °C (77 °F)
Water solubility	no data available

10. STABILITY AND REACTIVITY

Storage stability

Stable under recommended storage conditions.

Conditions to avoid Heat, flames and sparks.

Materials to avoid Strong oxidizing agents

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx)

Hazardous reactions

Vapours may form explosive mixture with air.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

LD50 Oral - rat - 224 mg/kg Remarks: Behavioral:Convulsions or effect on seizure threshold. Behavioral:Ataxia. Behavioral:Antipsychotic.

Irritation and corrosion

no data available

Sensitisation

no data available

Chronic exposure

- IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Signs and Symptoms of Exposure

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough, Shortness of breath, Headache, Nausea

Potential Health Effects

estructive to the tissue of the
skin burns.

Additional Information RTECS: NP9900000

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

no data available

Ecotoxicity effects

no data available

Further information on ecology

no data available

13. DISPOSAL CONSIDERATIONS

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US) UN-Number: 1214 Class: 3 (8) Proper shipping name: Isobutylamine Marine pollutant: No Poison Inhalation Hazard: No	Packing group: II					
IMDG UN-Number: 1214 Class: 3 (8) Proper shipping name: ISOBUTYLAMINE Marine pollutant: No	Packing group: II	EMS-No: F-E, S-C				
IATA UN-Number: 1214 Class: 3 (8) Proper shipping name: Isobutylamine	Packing group: II					
15. REGULATORY INFORMATION						
OSHA Hazards Flammable Liquid, Toxic by ingestion, Corrosive						
DSL Status All components of this product are on the Canadian DSL list.						
SARA 302 Components SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.						
SARA 313 Components SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.						

SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard

Massachusetts Right To Know Components

Isobutylamine	CAS-No. 78-81-9	Revision Date 1991-07-01
Pennsylvania Right To Know Components		
	CAS-No.	Revision Date
Isobutylamine	78-81-9	1991-07-01
New Jersey Right To Know Components		
	CAS-No.	Revision Date
Isobutylamine	78-81-9	1991-07-01

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

16. OTHER INFORMATION

Further information

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