
Emerald Kalama Emergency Phone: 1-360-673-2550

CHEMTREC: 1-800-424-9300

I. PRODUCT INFORMATION

CHEMICAL NAME: BENZYL AMINE
SYNONYM: Monobenzylamine
FAMILY: Aromatic amines
MOLECULAR FORMULA: C₆H₅CH₂NH₂ (C₇H₉N)
MOLECULAR WEIGHT: 107.15
CAS REG #: 100-46-9

II. SUMMARY OF HAZARDS

WARNING! CAUSES SEVERE EYE, SKIN, AND MUCOUS MEMBRANE BURNS
HARMFUL IF INHALED
HARMFUL IF SWALLOWED

III. PHYSICAL PROPERTIES

APPEARANCE / ODOR: Colorless liquid with a fishy odor
BOILING POINT: 364°F (184°C) **MELTING POINT:** Not determined
VAPOR PRESSURE: < 1 mm Hg @ 20°C (68°F) **VAPOR DENSITY:** 3.7 (Air = 1)
SOLUBILITY IN WATER: Complete **% VOLATILE:** 100
SPECIFIC GRAVITY: 0.98 (H₂O = 1) **EVAP RATE:** <1 (Butyl acetate = 1)
WEIGHT PER GALLON: 8.17 #

IV. FIRE AND EXPLOSION HAZARD INFORMATION

FLASH POINT (TCC): 158°F (70°C) **FLAMMABLE LIMITS:** Not determined
AUTOIGNITION TEMP: Not determined **DECOMPOSITION TEMP:** Not determined

FIRE and EXPLOSION HAZARDS: Decomposition under fire conditions will generate carbon monoxide and may generate other toxic vapors such as nitrogen oxides.

FIRE FIGHTING INFORMATION: Use CO₂, foam, or dry chemical to extinguish fire. Water can be used to cool a fire, but for extinguishment, foam or dry chemical are preferred. Avoid spreading liquid and fire by water flooding. Wear self-contained, positive pressure breathing apparatus and full firefighting protective clothing. Use water to keep containers cool.

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V. HAZARD RATINGS FOR BENZYL AMINE

NFPA	HEALTH	3	HMIS	HEALTH	3
HAZARD	FLAMMABILITY	2	RATINGS	FLAMMABILITY	2
RATING	REACTIVITY	0	(NPCA & NAPIM)	REACTIVITY	0

VI. HEALTH HAZARD INFORMATION

LD₅₀ (ORAL RAT): > 500 mg / kg

LD₅₀ (DERMAL RAT): > 1,000 mg / kg

THRESHOLD LIMIT VALUE (TLV): TLV has not been established by the ACGIH.

CARCINOGEN (IARC / NTP / 29CFR): No

NOTE: Health studies have shown that exposures to chemicals pose potential health risks which may vary from person to person. Therefore exposures to liquids, vapors, mists, or fumes should be minimized.

ACUTE HEALTH HAZARDS:

Inhalation:	Highly irritating to the lungs and mucous membranes. In persons with impaired pulmonary function, especially those with obstructive airway diseases, the breathing of benzyl amine might cause exacerbation of symptoms due to its irritant properties. Exposure to benzyl amine may result in tracheitis, bronchitis, pneumonitis, and pulmonary edema.
Eye Contact:	Causes severe eye burns.
Skin Contact:	Causes severe skin irritation including burns.
Ingestion:	Harmful if swallowed. Benzyl amine causes severe burns to mucous membrane tissue.

CHRONIC HEALTH HAZARDS: A moderate chronic inhalative and ingestive hazard.

EMERGENCY FIRST AID:

Inhalation:	If overcome by exposure, remove to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain emergency medical attention.
Eye Contact:	In case of eye contact, flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.
Skin Contact:	In case of skin contact, flush skin with plenty of water. Remove contaminated clothing. Get immediate medical attention for chemical burns. Wash clothing before reuse. Destroy contaminated shoes
Ingestion:	If swallowed, induce vomiting as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

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VII. PROTECTIVE EQUIPMENT AND EXPOSURE CONTROL METHODS

Use with adequate local exhaust ventilation. In confined or enclosed spaces, use NIOSH approved respiratory protection. Use chemical resistant apron, gloves, and other impervious clothing to avoid skin contact. Use splash goggles and face shield when eye contact may occur. Provide safety shower, equipped with an eye wash fountain in the immediate vicinity of any potential exposure.

Use good personal hygiene practices. Wash hands before eating, drinking, or smoking, or using toilet facilities. Promptly remove contaminated clothing and wash thoroughly before reuse.

VIII. REACTIVITY DATA

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

INCOMPATIBLE MATERIALS: Strong oxidizing agents, aldehydes, acids, acid chlorides, acid anhydrides, and copper containing alloys

HAZARDOUS DECOMPOSITION PRODUCTS: Incomplete combustion will produce carbon monoxide and other potentially toxic and/or poisonous vapors such as nitrogen oxides.

IX. SPILL OR LEAK PROCEDURES

Remove sources of ignition, stop release, and provide adequate ventilation. Prevent flow to sewer and public waters. Recover free product, if possible. Cover spill with inert, non-combustible absorbent material and remove to a closed disposal container. Report spill as per regulatory requirements. Leaking drum should be emptied or placed into an oversized (recovery) drum.

X. WASTE DISPOSAL

Disposal must be made in accordance with applicable governmental regulations. Do not contaminate any streams, lakes, or ponds.

XI. ADDITIONAL PRECAUTIONS

Store as a NFPA Class IIIA liquid. Keep fire and sparks away from drums. Since empty containers retain product residue, do not cut, drill, grind, or weld on or near the container until it is thoroughly cleaned.

Isolate, vent, drain, wash and purge systems or equipment before maintenance or repair. Remove all ignition sources. Check atmosphere for explosiveness and oxygen deficiencies. Use adequate personal protective equipment. Comply with regulations governing confined space entry.

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XII. OSHA / SARA TITLE III / TSCA INFORMATION

We have evaluated Benzyl Amine using the criteria in OSHA's Hazard Communication Rule (29CFR 1910.1200). Benzyl Amine considered hazardous under the OSHA Standard.

Benzyl Amine is not listed as an Extremely Hazardous Substance under Section 302 of SARA Title III.

As an OSHA hazardous substance, Benzyl Amine is subject to the reporting requirements of Sections 311 or 312 of SARA Title III.

Benzyl Amine does not contain ingredients (at a level of 1% or more) on the List of Toxic Chemicals in Section 313 of Sara Title III.

Benzyl Amine is included in the current TSCA Inventory List.

XIII. DOT / IMDG INFORMATION

Benzyl Amine is properly classified by DOT and IMDG regulations as follows:

PROPER SHIPPING NAME	Amine, Liquid, Corrosive, N.O.S. (Benzyl Amine)
HAZARD CLASS	8
I.D. NUMBER	UN 2735
PACKING GROUP	I
PLACARDS REQUIRED	CORROSIVE

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