



PHENETHYL ALCOHOL

MSDS Number: P1861 --- *Effective Date: 12/08/96*

1. Product Identification

Synonyms: Benzyl carbinol; benzenethanol; 2-phenethyl alcohol; 2-phenylethanol
CAS No.: 60-12-8
Molecular Weight: 122.17
Chemical Formula: C₆H₅CH₂CH₂OH
Product Codes: 2633

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Benzene Ethanol	60-12-8	100%	Yes

3. Hazards Identification

Emergency Overview

WARNING! CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. HARMFUL IF SWALLOWED OR ABSORBED THROUGH SKIN. MAY BE HARMFUL IF INHALED. AFFECTS CENTRAL NERVOUS SYSTEM.

Potential Health Effects

Information on the human health effects from exposure to this substance is limited.

Inhalation:

Inhalation of vapor can irritate respiratory tract. Causes central nervous system effects. Breathing high concentrations in air can cause lightheadedness, dizziness, weakness, nausea, headache.

Ingestion:

Moderately toxic by ingestion based on LD50 data. May cause gastrointestinal upset.

Skin Contact:

Causes moderate skin irritation based on Draize information for rabbits. May be absorbed through skin with toxic effects to follow.

Eye Contact:

Causes severe eye irritation based on Draize information for rabbits.

Chronic Exposure:

No information found.

Aggravation of Pre-existing Conditions:

No information found.

4. First Aid Measures

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Ingestion:

Give large amounts of water to drink. Never give anything by mouth to an unconscious person. Get medical attention.

Skin Contact:

Remove any contaminated clothing. Wash skin with soap or mild detergent and water for at least 15 minutes. Wash clothes before reuse. Get medical attention if irritation develops or persists.

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

5. Fire Fighting Measures

Fire:

Flash point: 96C (205F) CC Low fire hazard when exposed to heat or flames.

Explosion:

Above the flash point, explosive vapor-air mixtures may be formed.

Fire Extinguishing Media:

Water spray, dry chemical, alcohol foam, or carbon dioxide.

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures

Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer!

7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

None established.

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved):

For conditions of use where exposure to the substance is apparent, consult an industrial hygienist. For emergencies, or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. WARNING: Air purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection:

Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance:

Clear, colorless liquid.

Odor:

Sweet floral (rose-like) odor.

Solubility:

Soluble in 50 parts water.

Specific Gravity:

1.02

pH:

No information found.

% Volatiles by volume @ 21C (70F):

100

Boiling Point:

219 - 221C (426 - 430F)

Melting Point:

-25.8C (-15F)

Vapor Density (Air=1):

4.2

Vapor Pressure (mm Hg):

1.0 @ 58C (136F)

Evaporation Rate (BuAc=1):

No information found.

10. Stability and Reactivity

Stability:

Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products:

Carbon dioxide and carbon monoxide may form when heated to decomposition. May produce acrid smoke and irritating fumes when heated to decomposition.

Hazardous Polymerization:

Will not occur.

Incompatibilities:

Strong oxidizing agents, strong acids.

Conditions to Avoid:

Heat, incompatibles.

11. Toxicological Information

Oral rat LD50: 1790 mg/kg; skin rabbit LD50: 790 mg/kg; Irritation data: eye, rabbit: 750ug/24H, Severe; skin, rabbit: 100mg/24H, Moderate; Investigated as a mutagen and a reproductive effector.

Ingredient	---NTP Carcinogen---		IARC Category
	Known	Anticipated	
Benzene Ethanol (60-12-8)	No	No	None

12. Ecological Information

Environmental Fate:
No information found.

Environmental Toxicity:
No information found.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Not regulated.

15. Regulatory Information

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-----\Chemical Inventory Status - Part 1\-----
Ingredient                TSCA  EC   Japan  Australia
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Benzene Ethanol (60-12-8)  Yes   Yes  Yes    Yes
-----\Chemical Inventory Status - Part 2\-----
                                --Canada--
Ingredient                Korea  DSL   NDSL  Phil.
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Benzene Ethanol (60-12-8)  Yes   Yes  No     Yes
-----\Federal, State & International Regulations - Part 1\-----
                                -SARA 302-   -----SARA 313-----
Ingredient                RQ    TPQ   List  Chemical Catg.
-----
Benzene Ethanol (60-12-8)  No    No    No     No
-----\Federal, State & International Regulations - Part 2\-----
                                -RCRA-      -TSCA-
Ingredient                CERCLA  261.33    8(d)
-----
Benzene Ethanol (60-12-8)  No      No      No
Chemical Weapons Convention: No  TSCA 12(b): No  CDTA: No
SARA 311/312: Acute: Yes  Chronic: No  Fire: No  Pressure: No
Reactivity: No          (Pure / Liquid)

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Australian Hazchem Code: No information found.

Poison Schedule: No information found.

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. Other Information

NFPA Ratings: Health: 1 Flammability: 1 Reactivity: 0

Label Hazard Warning:

WARNING! CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. HARMFUL IF SWALLOWED OR ABSORBED THROUGH SKIN. MAY BE HARMFUL IF INHALED. AFFECTS CENTRAL NERVOUS SYSTEM.

Label Precautions:

Avoid breathing vapor. Avoid contact with eyes, skin and clothing. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling.

Label First Aid:

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. If swallowed, give large amounts of water to drink. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Product Use:

Laboratory Reagent.

Revision Information:

Pure. New 16 section MSDS format, all sections have been revised.

Disclaimer:

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