

Material Safety Data Sheet

Product Identification

【Product Name】

Dibenzylamine

【Synonyms】

(N-Benzylaminomethyl)benzene

DBA

N-(Phenylmethyl)benzenemethanamine

N-Benzylbenzylamine

【CAS】**103-49-1****【Formula】**C₁₄H₁₅N**【Molecular Weight】**

197.28

【EINECS】

203-117-7

【Merck】

13,3035

【Beilstein/Gmelin】

909664

【Beilstein Reference】

4-12-00-02179

【EC Class】

harmful, irritant

Physical and Chemical**Properties**

【Appearance】

Yellow liquid. Ammoniacal odor.

【Solubility in water】

Slightly soluble

【Melting Point】

-26

【Boiling Point】

300

【Vapor Pressure】

0.0012 (25 C)

【Density】

1.045 g/cm³ (0 C)

【pKa/pKb】

5.24 (pKb)

【Heat Of Vaporization】

54.0 kJ/mol

【Heat Of Combustion】

-7791 kJ/mol

【Usage】

Detection of cobalt, cyanate and iron.

【Refractive Index】

1.5781 (20 C)

First Aid Measures

【Ingestion】

Do NOT induce vomiting. If victim is conscious, do not give anything by mouth to an unconscious person.

【Inhalation】

Remove from exposure to fresh air immediately. If breathing has ceased, apply artificial respiration using a resuscitator bag and a mask.

【Skin】

Get medical aid immediately. Immediately flush with water while removing contaminated clothing and shoes.

【Eyes】

Flush eyes with plenty of water for at least 15 minutes. Get medical aid immediately.

Handling and Storage

【Storage】

Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

【Handling】

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Use with adequate ventilation.

Hazards Identification

【Ingestion】

Harmful if swallowed. Causes gastrointestinal tract irritation. Effects may be delayed.

【Inhalation】

Causes respiratory tract irritation.

【Skin】

Causes skin irritation. May be harmful if absorbed through the skin. Effects of contact may be delayed.

【Eyes】

Causes eye irritation.

【Hazards】

When heated, vapors may form explosive mixtures with air: indoors, outdoors, and sewers explosion hazards.

【EC Risk Phrase】

R 34

【EC Safety Phrase】

S 26 36/37/39 45

【UN (DOT)】

2735

Exposure Controls/Personal

Protection

【Personal Protection】

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 gloves to prevent skin exposure. Clothing: Wear appropriate 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 a respirator's use.

【Poison Class】

Fire Fighting Measures

【Flash Point】

143

【Fire Fighting】

Wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Water runoff can cause environmental damage. Dike and collect water used to fight fire. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Extinguishing media: Do NOT get water inside containers. For small fires, use dry chemical, carbon dioxide, or water spray. For large fires, use dry chemical, carbon dioxide, alcohol-resistant foam, or water spray. Cool containers with flooding quantities of water until well after fire is out.

【Fire Potential】

Combustible material: may burn but does not ignite readily.

Accidental Release

Measures

【Small spills/leaks】

Absorb spill with inert material, (e.g., dry sand or earth), then place into a chemical waste container. Clean up spills immediately, using the appropriate protective equipment. Provide ventilation. Do not get water inside containers. Stop leak only if you can do so without risk.

Stability and Reactivity

【Disposal Code】

5

【Stability】

Stable under normal temperatures and pressures.

【Incompatibilities】

Strong oxidizing agents, acids, acid chlorides, acid anhydrides, chloroformates.

【Decomposition】

Nitrogen oxides, carbon monoxide, carbon dioxide, nitrogen.

【Combustion Products】

Fire may produce irritating, corrosive and/or toxic gases.

Transport Information

【UN Number】

2735

【Hazard Class】

8

【Packing Group】

III