SIGMA-ALDRICH

MATERIAL SAFETY DATA SHEET

Date Printed: 03/03/2004 Date Updated: 09/02/2002

Version 1.1

Section 1 - Product and Company Information

Product Name BIBENZYL, 99%

Product Number B33706
Brand ALDRICH

Company Sigma-Aldrich
Street Address 3050 Spruce Street
City, State, Zip, Country SAINT LOUIS MO 63103 US

City, State, Zip, Country SAINT LOUIS M Technical Phone: 314 771 5765

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Section 2 - Composition/Information on Ingredient

Substance Name CAS # SARA 313 BIBENZYL 103-29-7 No

Formula C14H14

Synonyms Benzene, 1,1'-(1,2-ethanediyl)bis- * Dibenzyl *

Dihydrostilbene * sym-Diphenylethane *

1,2-Diphenylethane * Ethane, 1,2-diphenyl-

RTECS Number: DT4375000

Section 3 - Hazards Identification

For additional information on toxicity, please refer to Section 11.

Section 4 - First Aid Measures

ORAL EXPOSURE

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

INHALATION EXPOSURE

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

DERMAL EXPOSURE

In case of contact, immediately wash skin with soap and copious amounts of water.

EYE EXPOSURE

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

Section 5 - Fire Fighting Measures

FLASH POINT

230 °F 110 °C Method: closed cup

AUTOIGNITION TEMP

FLAMMABILITY

N/A

EXTINGUISHING MEDIA

Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

FIREFIGHTING

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Specific Hazard(s): Emits toxic fumes under fire conditions.

Section 6 - Accidental Release Measures

PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Section 7 - Handling and Storage

HANDLING

User Exposure: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

STORAGE

Suitable: Keep tightly closed. Store in a cool dry place.

Section 8 - Exposure Controls / PPE

ENGINEERING CONTROLS

Safety shower and eye bath. Mechanical exhaust required.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory: Government approved respirator. Hand: Compatible chemical-resistant gloves.

Eye: Chemical safety goggles.

GENERAL HYGIENE MEASURES

Wash thoroughly after handling. Wash contaminated clothing before reuse.

Section 9 - Physical/Chemical Properties

Appearance	Color: White Form: Fine crystals	
Property	Value	At Temperature or Pressure
Molecular Weight pH BP/BP Range MP/MP Range Freezing Point Vapor Pressure	182.27 AMU N/A 284 °C 50 °C N/A N/A	760 mmHg

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Vapor Density
                        N/A
Saturated Vapor Conc. N/A
Bulk Density
Odor Threshold
Volatiles
                       1.014 \, \text{g/cm}3
VOC Content
                       N/A
Water Content
                       N/A
Solvent Content
                      N/A
Evaporation Rate
                      N/A
Viscosity
                       N/A
Surface Tension
                      N/A
Partition Coefficient N/A
Decomposition Temp. N/A
                       230 °F 110 °C Method: closed cup
Flash Point
Explosion Limits
                      N/A
Flammability
                      N/A
Autoignition Temp
                       480 °C
                      N/A
Refractive Index
Optical Rotation
                      N/A
Miscellaneous Data
                      N/A
Solubility
                       N/A
N/A = not available
Section 10 - Stability and Reactivity
STABILITY
   Materials to Avoid: Strong oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS
   Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide.
Section 11 - Toxicological Information
ROUTE OF EXPOSURE
   Skin Contact: May cause skin irritation.
   Eye Contact: May cause eye irritation.
   Multiple Routes: May be harmful by inhalation, ingestion, or
   skin absorption.
SIGNS AND SYMPTOMS OF EXPOSURE
   To the best of our knowledge, the chemical, physical, and
   toxicological properties have not been thoroughly investigated.
TOXICITY DATA
   Oral
   Rat
   4518 \text{ mg/kg}
   Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and
   Taste):Eye:Lacrimation. Behavioral:Change in motor activity
   (specific assay). Gastrointestinal: Hypermotility, diarrhea.
   Intraperitoneal
   Mouse
   2500 MG/KG
   LD50
   Intravenous
   Mouse
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78 MG/KG LD50

Skin Rabbit

> 5000 mg/kg

LD50

Section 12 - Ecological Information

No data available.

Section 13 - Disposal Considerations

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION
Dissolve or mix the material with a combustible solvent and burn
in a chemical incinerator equipped with an afterburner and
scrubber. Observe all federal, state, and local environmental
regulations.

Section 14 - Transport Information

DOT

Proper Shipping Name: None

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

ΤΔΤΔ

Non-Hazardous for Air Transport: Non-hazardous for air transport.

Section 15 - Regulatory Information

EU ADDITIONAL CLASSIFICATION

S: 22 24/25

Safety Statements: Do not breathe dust. Avoid contact with skin and eyes.

UNITED STATES REGULATORY INFORMATION

SARA LISTED: No

TSCA INVENTORY ITEM: Yes

CANADA REGULATORY INFORMATION

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: Yes NDSL: No

Section 16 - Other Information

DISCLAIMER

For R&D use only. Not for drug, household or other uses.

WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or

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