

Material Safety Data Sheet

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: DABMC

Catalog Number(s): 843 8145 - bulk - gram(s)

Supplier: Carestream Health, Inc., 150 Verona Street, Rochester, New York 14608; Carestream Health Canada Company, 6 Monogram Place, Suite 200, Toronto, Ontario, M9R 0A1

For Emergency Health Information call, (800) 424-9300

For other information contact 800-328-2910.

Synonym(s): CIN 10068474, KAN 907515, W-0002.052

Molecular Formula: C21 H18 N6 O

Molecular Weight: 370.41

2. COMPOSITION/INFORMATION ON INGREDIENTS

Weight % - Component - (CAS Registry No.)

100	2,6-bis((4-azidophenyl)methylene)-4-methylcyclohexanone (005284-79-7)
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3. HAZARDS IDENTIFICATION

HEAT SENSITIVE - CAN VIOLENTLY DECOMPOSE IF HEATED

FLAMMABLE SOLID

POWDERED MATERIAL MAY FORM EXPLOSIVE DUST-AIR MIXTURES

MAY CAUSE SKIN AND EYE IRRITATION

Eastman Kodak Hazard Ratings: R-1, S-1, F-3, C-4HT

HMIS Hazard Ratings: Health - 1, Flammability - 3, Reactivity - 2, Personal Protection - B

NFPA Hazard Ratings: Health - 2, Flammability - 3, Reactivity (Stability) - 2

NOTE: HMIS and NFPA hazard indexes involve data review and interpretation that may vary among companies. They are intended only for rapid, general identification of the magnitude of the potential hazards. The personal protection index is only intended for general guidance on personal protection equipment (PPE) that is suitable for the potential hazards of the material. PPE (e.g., respirators) may not be needed if engineering controls (e.g., local ventilation) are adequate. An asterisk (*), in the HMIS health field, designates potential chronic or target organ hazards. To adequately address safe handling, ALL information in this MSDS must be considered.

4. FIRST-AID MEASURES

Inhalation: If symptomatic, move to fresh air. Treat symptomatically. Get

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medical attention if symptoms persist.

Eyes: Immediately flush with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.

Skin: Immediately remove contaminated clothing and shoes and wash with soap and plenty of water. Get medical attention if symptoms occur. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.

Ingestion: Drink 1-2 glasses of water. Seek medical attention. Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Water spray, carbon dioxide (CO₂), dry chemical

Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective clothing. Fire or excessive heat may produce hazardous decomposition products. Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting the fire. Fight fire from a protected location.

Hazardous Combustion Products: Carbon dioxide, carbon monoxide, oxides of nitrogen.

Unusual Fire and Explosion Hazards: Flammable solid. Can be ignited easily and burns vigorously. Powdered material may form explosive dust-air mixtures. Elevated temperatures can cause violent decomposition. Risk of explosion if heated under confinement. Heating may cause an explosion.

6. ACCIDENTAL RELEASE MEASURES

Eliminate all ignition sources. Collect up and put in a suitable container. Avoid generation of dust. Clean surface thoroughly to remove residual contamination.

7. HANDLING AND STORAGE

Personal Precautionary Measures: Avoid prolonged or repeated breathing of dust. Avoid contact with eyes, skin, and clothing. Use with adequate ventilation. Wash thoroughly after handling.

Prevention of Fire and Explosion: Keep away from heat, sparks, and flame. Powdered material may form explosive dust-air mixtures. Use with adequate ventilation. Minimize dust generation and accumulation. Keep away from sources of ignition. Refer to NFPA Pamphlet No. 654, "Prevention of Fire and Dust Explosions in the Chemical, Dye, Pharmaceutical, and Plastics Industries." Keep from contact with oxidizing materials. Exercise caution in heating, especially in a closed container.

Storage: Keep container closed. Store in a cool place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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Exposure Limits: Not established

Ventilation: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions.

Respiratory Protection: None should be needed.

Eye Protection: It is a good industrial hygiene practice to minimize eye contact. Wear safety glasses with side shields (or goggles).

Skin Protection: It is a good industrial hygiene practice to minimize skin contact. Wear impervious gloves.

Recommended Decontamination Facilities: Eye bath, washing facilities, safety shower

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Solid
Color: Light yellow
Odor: Not available
Specific Gravity (water = 1): Not available
Vapor Pressure: Not available
Vapor Density (Air = 1): Not available
Volatile Fraction by Weight: Not available
Melting Point: Not available
Solubility in Water: Not available
pH: Not applicable
Flash Point: Not applicable, flammable solid
Autoignition Temperature: 140°C (284°F)

10. STABILITY AND REACTIVITY

Stability: Stable. Safe handling temperatures are dependent on specific conditions of use and are typically substantially below the onset temperature. Consult your technical safety experts.

Exotherm onset temperature: 106°C by ARC

Incompatibility: Strong oxidizing agents, light

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Effects of Exposure:

Inhalation: Expected to be a low hazard for recommended handling.

Eyes: May be irritating.

Skin: May cause irritation.

Ingestion: Expected to be a low ingestion hazard.

Acute Toxicity Data:

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Oral LD-50 (rat): > 3200 mg/kg
Dermal LD-50: > 1.0 g/kg
Skin irritation: slight
Skin sensitization: slight
Eye irritation (unwashed eyes): slight
Eye irritation (washed eyes): slight

Definitions for the following section(s): LOEL = lowest-observed-effect level, LOAEL = lowest-observed-adverse-effect, NOAEL = no observed-adverse-effect level, NOEL = no-observed-effect level.

Subacute Toxicity Data:

Oral study (10 days, rat): NOEL = 962 mg/kg/day

12. ECOLOGICAL INFORMATION

Introduction: This environmental effects summary is written to assist in addressing emergencies created by an accidental spill which might occur during the shipment of this material, and, in general, it is not meant to address discharges to sanitary sewers or publically owned treatment works.

Summary: Data for this material have been used to estimate its environmental impact. It is expected to have the following properties: a low biochemical oxygen demand and little potential to cause oxygen depletion in aqueous systems, a low potential to affect aquatic organisms, a low potential to affect secondary waste treatment microbial metabolism, a low potential to persist in the environment, a low potential to bioconcentrate. After dilution with a large amount of water, followed by secondary waste treatment, this material is not expected to cause adverse environmental effects.

13. DISPOSAL CONSIDERATIONS

Discharge, treatment, or disposal may be subject to national, state, or local laws. Incinerate. Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION

For more transportation information, go to: <http://ship.carestreamhealth.com>.

15. REGULATORY INFORMATION

- Material(s) known to the State of California to cause cancer: None
- Material(s) known to the State of California to cause adverse reproductive effects: None

Carcinogenicity Classification (components present at 0.1% or more):

- International Agency for Research on Cancer (IARC): None
- American Conference of Governmental Industrial Hygienists (ACGIH): None
- National Toxicology Program (NTP): None
- Occupational Safety and Health Administration (OSHA): None
- Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and

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40 CFR Part 372: None

16. OTHER INFORMATION

US/Canadian Label Statements:

CONTAINS: 2,6-bis((4-azidophenyl)methylene)-4-methylcyclohexanone
(005284-79-7)

DANGER!

HEAT SENSITIVE - CAN VIOLENTLY DECOMPOSE IF HEATED

FLAMMABLE SOLID

POWDERED MATERIAL MAY FORM EXPLOSIVE DUST-AIR MIXTURES

MAY CAUSE SKIN AND EYE IRRITATION

Keep away from heat, sparks, and flame.

Store in a cool place.

Exercise caution if heating, especially in a closed container.

Minimize dust generation and accumulation.

Avoid prolonged or repeated breathing of dust.

Avoid contact with eyes, skin, and clothing.

Keep container closed.

Use with adequate ventilation.

Wash thoroughly after handling.

FIRST AID: In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes. In case of skin contact, immediately wash with soap and plenty of water. Get medical attention if symptoms occur. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.

Keep out of reach of children.

Do not handle or use until safety precautions in Material Safety Data Sheet (MSDS) have been read and understood.

Additional hazard precautions for containers greater than 1 gallon of liquid or 5 pounds of solid:

Since emptied containers retain product residue, follow label warnings even after container is emptied.

IN CASE OF FIRE: Use water spray, carbon dioxide (CO2), dry chemical. Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting the fire.

IN CASE OF SPILL: Sweep or scoop up and remove.

The information contained herein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers and the protection of the environment.

R-1, S-1, F-3, C-4HT