



MATERIAL SAFETY DATA SHEET

Section I Chemical Product & Company Information

Product Name: DMDMH

Company information: SHANDONG AILITONG NEW MATERIAL CO.,LTD.

ADD: ZHONGJIA VILLAGE,PUTONG TOWN,QINGZHOU CITY SHANDONG CHINA

Issued by:SHANDONG AILITONG NEW MATERIAL CO.,LTD.

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Section II Composition/Information on Ingredients

Chemical Name: 1,3-Dihydroxymethyl-5,5-dimethylhydantoin

INCI Name: DMDM Hydantoin

CAS #: 6440-58-0

Hazard Symbols: None Listed

Risk Phrases: None Listed

Section III Hazards Identification

Eye Contact: May irritate eyes

Skin Contact: May irritate skin

Inhalation: May irritate respiratory system

PRIMARY ROUTES OF ENTRY: SKIN CONTACT, EYE CONTACT, INHALATION, INGESTION.

EFFECTS OF OVEREXPOSURE:Based upon information available for this material, and closely related materials, it is anticipated that this material will produce mild skin irritation and moderate eye irritation upon direct contact, and inhalation may produce irritation to the mucous membranes.Heating this material in an open vessel will result in the release of Formaldehyde. Formaldehyde has been shown to cause sensitization reactions in some sensitive individuals. Therefore, repeated contact should be avoided. Formaldehyde is listed by IARC, OSHA and NTP as a possible human carcinogen by inhalation. Epidemiological studies, however, do not document any increased incidence of human cancers directly attributable to Formaldehyde exposures.

OVEREXPOSURE MAY AGGRAVATE EXISTING CONDITIONS:May cause allergic response in persons with pre-existing sensitivity to Formaldehyde.

***Note:** Heating this material in an open vessel will release Formaldehyde.Formaldehyde is listed by IARC, OSHA and NTP as a possible human carcinogen by inhalation. Epidemiological studies, however, do not document any increased incidence of human cancers directly attributable to Formaldehyde exposures.

Section IV First Aid Measures

Skin: Wash with soap and water. If irritation develops, seek medical attention.

Eyes: Flush with water for 15 minutes, if irritation develops, seek medical attention.

Inhalation: Remove to fresh air. If not breathing, clear airway and start artificial respiration. If victim is having trouble breathing, administer oxygen or artificial respiration as needed. Get immediate medical attention.

Ingestion: If swallowed, give 3-4 glasses of water but do not induce vomiting. If vomiting does occur, give fluids again. Get medical attention to determine whether vomiting or evacuation of stomach is necessary. Do not give anything by mouth to an unconscious or convulsing person.

Section V Fire Fighting Measures

FLASH POINT: >200 F

AUTO IGNITION TEMPERATURE: Not known

LOWER EXPLOSION LIMIT (%): Not applicable

UPPER EXPLOSION LIMIT (%): Not applicable

EXTINGUISHING MEDIA: FOAM, CO₂, DRY CHEMICAL, WATER

SPECIAL FIRE FIGHTING PROCEDURES: Must wear NIOSH/MSHA approved self-contained breathing apparatus and protective clothing. Cool fire-exposed containers with water spray.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Products of combustion are toxic. Heating of this product in the open will release Formaldehyde. When this product is spread over a large area, irritating levels of gaseous formaldehyde may be produced.

Section VI Accidental Release Measures

General Information: Use proper personal protective equipment

Spills / Leaks: Caution, floors may become slippery. Use appropriate protective equipment and NIOSH / MSHA approved respirator where mists or vapours of unknown concentrations may be generated (self-contained breathing apparatus preferred). Warning! When spilled, and liquid spreads over a large area, irritating levels of gaseous formaldehyde may be released. In such cases, self contained breathing apparatus should be used. Dike and contain spill with inert material (Sand, Earth, Etc.,) and transfer the liquid and soil separately to containers for recovery or disposal. Keep spill out of sewers and open bodies of water.

Section VII Handling and Storage

PRECAUTIONS FOR STORAGE AND HANDLING: Store at or near room temperature. Keep containers tightly closed until used. Do not store below 60 F, to avoid formation of crystals in this material. Preparation of formulations with this material should be carried out in closed vessels. While formulating under these conditions, temperatures as high as 80 C can be tolerated for a short period of time.

Section VIII Exposure Controls/Personal Protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels. Personal Protective Equipment

Ventilation: In process where mists or vapors may be generated, proper ventilation must be provided in accordance with good ventilation practices.



Respiration Protection: In process where mists or vapors may be generated, a NIOSH/MSHA jointly approved respirator is advised in the absence of proper environmental controls.

Protective Clothing: Rubber or neoprene gloves, when needed, to prevent skin contact. Long sleeves, coveralls or other appropriate clothing, when needed, to prevent skin contact.

Eye Protection: Wear chemicals splash goggles where there is a potential for eye contact. Use safety glasses with side shields under normal use conditions.

Other Protective Equipment: Eye wash station, safety shower in work area.

Section IX Physical and Chemical Properties

Appearance: Water White Liquid

Molecular Weight: 188.18

Formula: $C_7H_{12}N_2O_4$

pH: 6.5 – 7.5

Percent Volatile (by weight): 45

Solubility: Soluble in water

Specific Gravity: 1.16 @ 25°C

Section X Stability and Reactivity

Stability: Stable

Incompatibility (Material to avoid): Avoid contact with strong oxidizing agents. Strong acids and alkalis (stable between pH 4 and 9).

CONDITIONS TO AVOID: Temperatures above 90° C (to avoid decomposition with release of Formaldehyde). Heating in an open vessel (which will release Formaldehyde).

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may produce toxic vapors Formaldehyde, other organic materials and oxides of carbon and nitrogen.

Hazards Polymerization: Will not occur

Section XI Toxicological Information

Oral LD50 (Rat): 3300 Mg/Kg

Dermal (Rabbit): Mild Irritant

Eyes (Rabbit): Mild Irritant

Inhalation LD50 (Rat): For 4 hours > 5 MB/1 Nominal concentration. Histologic examination of nasal turbinates and pulmonary organs indicated a total absence of notable pathology.

Section XII Ecological Information

Other: No information available

Section XIII Disposal Considerations

Dispose of in compliance with all federal, state and local laws and regulations. Incineration is the preferred method.

Section XIV Transport Information

IATA: Not regulated as a hazardous material

IMO: Not regulated as a hazardous material

RID / ADR: Not regulated as a hazardous material

Section XV Regulatory Information

European / International Regulations

European Labeling in accordance with EC Directives

Hazard Symbols: Not available

Tonic Substances Control Act (TSCA Inventory) Status: This product is currently listed on the EPA TSCA 8(b) inventory list.

OSHA Hazard Communication Standard: This material is not a hazardous chemical as defined by the U.S. OSHA Hazard Communication standard. However, under certain conditions, this material will release Formaldehyde. Occupational exposures to Formaldehyde above specified threshold levels are regulated by the Hazard Communication Standard for Formaldehyde in the Code of Federal Regulations (29 CFR 1910.1048).

US FDA Regulation on Cosmetics: This material is regulated by the US Food and Drug Administration (FDA) as a cosmetic ingredient. It can only be used as a preservative for cosmetic formulations.

Section XVI Other Information

While SHANDONG AILITONG NEW MATERIAL CO., LTD. believes the data set forth herein are accurate as of the date hereof, it is furnished without warranty of any kind and specially disclaims all liability for reliance on the information provided. The data is furnished solely for your consideration, investigation and verification. Since the conditions of handling and use are beyond our control, we make no guarantee of results and assume no liability for damage incurred by use of this material. It is the responsibility of the user to comply with all applicable laws and regulations.