

SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Bis (dimethylamino)dimethylsilane**
FORMULA: $C_6H_{18}N_2Si$
CAS NO: 3768-58-9
SYNONYMS: BDADMS

Intended Use: For R&D use only.

MANUFACTURER:

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SECTION 1 PRODUCT AND COMPANY INFORMATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

GHS CLASSIFICATION:

Flammable solid (category 2)

Skin corrosion (category 1B)

Serious eye damage (category 1)

Pictogram



Signal Word

Danger

SECTION 2 HAZARDS IDENTIFICATION (Cont.)**Hazard Statements**

H225	Highly Flammable liquid and vapor.
H314	Causes severe skin burns and eye damage.

Precautionary Phrases

P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/equipment
P242	Use only non-sparking tools
P243	Take precautionary measures against static discharge.
P262	Wash skin thoroughly after handling
P280	Wear protective gloves/protective clothing/eye protection/face protection
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician
P363	Wash contaminated clothing before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national regulation.

HMIS Classification:

Health: 3 Flammability: 3 Physical Hazards: 0

NFPA Rating:

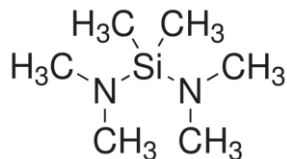
Health: 3 Flammability: 3 Reactivity: 0

HAZARDS NOT COVERED BY GHS:

Reacts with ambient moisture to form Dimethylamine.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: $C_6H_{18}N_2Si$



Molecular Weight: 146.31 g/mol

CHEMICAL NAME	CAS#
Bis(dimethylamino)dimethylsilane	3768-58-9

Bis (dimethylamino)dimethylsilane

SECTION 4 FIRST AID MEASURES

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Remove contacts if easily possible. Get immediate, professional care from qualified physician or emergency care facility.

SKIN EXPOSURE: Wash affected area with copious amounts of water for at least 15 minutes. Remove contaminated clothes and shoes if necessary. Seek medical assistance immediately.

INHALATION: Remove victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. If not breathing administer CPR. If having trouble breathing give oxygen if available. Seek immediate emergency medical assistance.

INGESTION: Do not induce vomiting. Rinse out mouth with water provided person is conscious. Seek immediate medical assistance.

NOTE: Material can form a siloxane polymer on skin, eyes, or in the lungs.

SECTION 5 FIREFIGHTING MEASURES

EXTINGUISHING MEDIA:

Suitable Water spray, alcohol-resistant foam, carbon dioxide and dry chemical.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:

Carbon oxides, nitrogen oxides (NO_x), silicon oxides.

SPECIFIC HAZARDS:

Keep away from any heat, sparks, open flame, or hot surface. When temperature is above the flash point, item is flammable in the presence of a source of ignition.

ADVICE FOR FIRE FIGHTERS

Wear a contained breathing apparatus for fire fighting if necessary. To cool unopened containers, use water spray.

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Be sure to remove all sources of ignition. Ensure adequate ventilation. Avoid breathing vapors, mist, or gas. Use personal protective equipment. Evacuate all personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

ENVIRONMENTAL PRECAUTIONS

If safe to do so, prevent all further leakage. Do not let product enter drains.

METHODS AND MATERIALS

Contain spillage, and collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Avoid all inhalation of vapor or mist.

Be sure to use explosion-proof equipment. Keep away from all sources of ignition. Take measures to prevent buildup of electrostatic charge.

CONDITIONS FOR SAFE STORAGE

Keep containers tightly closed. Store in a dry and well-ventilated location. To prevent leakage, store in an upright position and carefully reseal containers which have been opened.

Moisture Sensitive. Store under inert gas. Hydrolyses readily.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

COMPONENTS WITH WORKPLACE CONTROL PARAMETERS

Contains no substances with occupational exposure limit values.

APPROPRIATE ENGINEERING CONTROLS

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.

RESPIRATORY PROTECTION: Use a full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, always use a full-face air respirator. All respirators being used must be tested and approved under appropriate government standards.

EYE/FACE PROTECTION: Tightly fitted safety glasses and faceshield (minimum 8-inch). All eye protection should be approved under appropriate government standards.

SKIN PROTECTION: Flame retardant antistatic protective clothing. Always wear a complete suit that is rated to protecting against chemicals.

HAND PROTECTION: Always wear gloves. Be sure to inspect gloves prior to use. Avoid all skin contact with product by using the proper glove removal technique. All contaminated gloves are to be disposed. Wash and dry hands thoroughly.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: Colorless liquid

FORMULA MASS: 146.31 g/mol

ODOR: No data available

ODOR THRESHOLD: No data available

pH: No data available

MELTING POINT/ FREEZING POINT: -98 °C

BOILING POINT: 128-129 °C

FLASH POINT: -7 °C

EVAPORATION RATE: No data available

UPPER/LOWER FLAMMABILITY/EXPLOSION LIMITS: No data available

VAPOR PRESSURE: 1 mmHg @ 20 °C

VAPOR DENSITY: 5.05 – (Air = 1.0)

SPECIFIC GRAVITY: .809 g/mL @ 25 °C

SOLUBILITY IN WATER: Reacts with water

PARTITION COEFFICIENT: no data available

N-OCTANOL/WATER: no data available

AUTO-IGNITION TEMPERATURE: no data available

DECOMPOSITION: No data available

VISCOSITY: No data available

SECTION 10 STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under recommended storage conditions.

POSSIBILITY OF HAZARDOUS REACTION: Vapors may form explosive mixture with air

CONDITIONS TO AVOID: Heat, flames and sparks. Avoid direct sunlight and extremes of temperature.

INCOMPATIBLE MATERIALS: Strong oxidizing agents, acids, and bases.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon oxides, nitrogen oxides, and silicon oxides. Dimethylamine.

SECTION 11 TOXICOLOGICAL DATA

ACUTE TOXICITY: No data available.

SKIN CORROSIVE/IRRITANT: Causes skin burns. May be harmful if absorbed through the skin.

SEROUS EYE DAMAGE/IRRITATION: Causes eye burns

RESPIRATORY OR SKIN SENSITIZATION: Material is extremely destructive to the upper respiratory tract and the tissue of the mucous membranes. May be harmful if inhaled. **GERM CELL MUTAGENICITY:** No data available

CARCINOGENICITY: No component of this product present at levels greater or equal to 0.1% is identified as probable, possible, or confirmed carcinogen by IARC, ACGIH, NTP, OSHA.

REPRODUCTIVE TOXICITY: No data available

STOT-Single Exposure: No data available

STOT-Repeated Exposure: No data available

SECTION 11 TOXICOLOGICAL DATA (Con't)

ASPIRATION HAZARD: No data available

SIGNS AND SYMPTOMS OF EXPOSURE

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.
Cough, shortness of breath, headache, and nausea

SECTION 12 ECOLOGICAL DATA

TOXICITY: No data available

PERSISTENCE AND DEGRADABILITY: No data available

BIOACCUMULATIVE POTENTIAL: No data available

MOBILITY IN SOIL: No data available

OTHER ADVERSE EFFECTS: No data available

SECTION 13 DISPOSAL CONSIDERATIONS

Burn the product in a chemical incinerator with an afterburner and scrubber but exert extra care in igniting, as this material is extremely flammable. Contact professional waste disposal service for disposal of material. Dispose of any contaminated product as you would unused product.

SECTION 14 TRANSPORTATION DATA

Flammable liquids, corrosive, n.o.s. (Bis(dimethylamino)dimethylsilane)

UN2924 Class 3 (8) PG: II

DOT, IATA, IMDG Regulated:

Marine pollutant: No

SECTION 15 REGULATORY INFORMATION

SARA 302 COMPONENTS

SARA302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 COOMPONENTS

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

SARA 311/312 HAZARDS

Fire Hazard, Acute Health Hazard

MASSACHUSETTS RIGHT TO KNOW COMPONENTS

No components are subject to the Massachusetts Right to Know Act.

PENNSYLVANIA RIGHT TO KNOW COMPONENTS

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NEW JERSEY RIGHT TO KNOW COMPONENTS

Bis(dimethylamino)dimethylsilane

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CALIFORNIA PROP 65 COMPONENTS

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16 OTHER INFORMATION

DISCLAIMER: The information herein is believed to be accurate and reliable as of the date compiled. However, Wonik Materials North America makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information. DATE PREPARED: 01/09/2019 SDS DEPT Rev 2