

SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Magnesium bis(N,N-dimethylaminodiboranate)**

FORMULA: $C_4H_{24}B_4MgN_2$

CAS NO: 1071800-77-5

MANUFACTURER:

Wonik Materials North America
N115 W19392 EDISON DRIVE
GERMANTOWN, WI 53022

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IN CASE OF TRANSPORTATION EMERGENCY CONTACT CHEM-TREC 1-703-741-5500

FOR TECHNICAL INFORMATION CONTACT: 1-262-293-0251

SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Pictogram



Signal Word

Danger

Hazard Statements

H260	In contact with water releases flammable gases which may ignite spontaneously
H315	Causes skin irritation
H319	Causes serious eye irritation

SECTION 2 HAZARDS IDENTIFICATION (Cont.)

Precautionary Phrases

P223	Keep away from any possible contact with water, because of violent reaction and possible flash fire.
P231 + P232	Handle under inert gas. Protect from moisture
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P283	Wear fire/flame resistant/retardant clothing
P284	Wear respiratory protection
P402	Store in a dry place
P404	Store in closed container
P406	Store in corrosive resistant container with a resistant inner liner
P422	Store contents under inert gas

NFPA RATINGS (SCALE 0-4):

Health: 0

Flammability: 3

Reactivity: 2

Special: W

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: $C_4H_{24}B_4MgN_2$

Molecular Weight: 167.79

CHEMICAL NAME	CAS#	Concentration
Magnesium bis(N,N-dimethylaminodiboranate)	1071800-77-5	100 %

SECTION 4 FIRST AID MEASURES

EYE EXPOSURE: Immediately flush eyes with plenty of water for at least 15 minutes. Continue flushing until the affected person is transferred to an emergency physician.

SKIN EXPOSURE: Flush with soap and copious stream of water while removing contaminated clothing, jewelry and shoes. Immerse in cool water/wrap in wet bandages. Get immediate medical attention.

INHALATION: Move exposed person into fresh air. If the affected person is not breathing, if breathing irregular administer artificial respiration ox oxygen by trained personnel. Get immediate medical attention. Monitor breathing and pulse continuously.

INGESTION: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Seek medical attention immediately.

SECTION 5 FIREFIGHTING MEASURES

EXTINGUISHING MEDIA:

Suitable Use dry chemical or carbon dioxide or alcohol-resistant foam.

Unsuitable Water

Large Fires: Keep unnecessary people away, isolate hazard area and deny entry. Let the fire burn.

SECTION 5 FIREFIGHTING MEASURES (Cont.)

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:

Flammable in the presence of a source of ignition when the temperature is above the flash point. May burn in presence of air, or emit a flammable gas in the presence of water or water vapor. Keep away from heat/sparks/open flame/hot surface/air/water. No smoking. Hydrogen, boranes, Magnesium oxide.

ADVICE FOR FIRE FIGHTERS

Positive pressure, self-contained breathing apparatus is required for all hazardous material firefighting. The need for proximity, flashover, and entry protection as well as special protective clothing should be determined for each incident by a fire fighting safety professional.

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONNAL PRECAUTIONS

Positive pressure, full face, air supplied breathing apparatus should be used for work. Wear appropriate gloves when handling. Use gloves and other skin protection as assigned by a safety professional. Avoid dust formation. Avoid breathing vapors.

ENVIRONMENTAL PRECAUTIONS

Avoid release to the environment.

METHODS AND MATERIALS

Sweep up and shovel. Contain spillage and then place in container for disposal according to local regulations. Do not flush with water. Eliminate all ignition sources if safe to do so. Avoid heat, flames, sparks and other sources of ignition. Do not touch spilled material. Stop leak if safe to do so. Prevent entry into waterways, drains, or confined areas. Do not get water directly on material.

SECTION 7 HANDLING AND STORAGE

PERSONNEL PRECAUTIONS

Keep away from all ignition sources.
Evacuate all personnel not appropriately protected.

CONDITIONS FOR SAFE STORAGE

Store and handle in accordance with all current regulations and standards. Store under an inert atmosphere. Avoid direct sunlight. Avoid contact with water or moisture. Avoid contact with temperatures above 70 deg. C. Protect from physical damage. Subject to storage regulations: U.S. OSHA 29 CFR 1910.101. U.S. OSHA 29 CFR 1910.106. Grounding and bonding required. Keep separated from incompatible substances.

INCOMPATIBILITIES:

Exposure to air, moisture, combustible materials, halogenated compounds, halogens, oxidizing materials.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION: Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

EYE/FACE PROTECTION: Wear safety glasses. Use equipment for eye protection tested and approved under appropriate government standards

SKIN PROTECTION: Wear appropriate gloves. Impervious clothing, Flame retardant protective clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

EXPOSURE GUIDELINES

Contains no substances with occupational exposure limit values.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: White crystalline solid

pH: Not available

MELTING POINT/ FREEZING POINT: 70° C

BOILING POINT: not available

DECOMPOSITION: No data available

FLASH POINT: not available.

AUTO-IGNITION TEMPERATURE: not available

VAPOR PRESSURE: 800 mTorr @ 25° C

VAPOR DENSITY: no data available

SPECIFIC GRAVITY: No data available

SOLUBILITY IN WATER: Decomposes

ODOR: Irritating Odor

ODOR THRESHOLD: Not available

EVAPORATION RATE: Not available

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable under recommended storage conditions.

HAZARDOUS POLYMERIZATION: Will not polymerize.

CONDITIONS TO AVOID: Avoid contact with air. Keep dry. Keep out of water supplied and sewers.

INCOMPATIBILITY: Combustible materials, halogenated compounds, halogens, oxidizing materials, water
DECOMPOSITION PRODUCTS: Hydrogen, boranes, and magnesium oxide.

SECTION 11 TOXICOLOGICAL DATA

ACUTE TOXICITY

No information is known.

CHRONIC TOXICITY

This product is not listed in RTECS; no information on its carcinogenicity is known.

IMMEDIATE EFFECTS

Respiratory tract irritation, skin irritation, eye irritation

DELAYED EFFECTS

No data available

SECTION 12 ECOLOGICAL DATA

COMPONENT ANALYSIS –AQUATIC TOXICITY

No data available

PERSISTENCE AND DEGRADABILITY

No data available

BIOACCUMULATIVE POTENTIAL

No data available

MOBILITY IN ENVIRONMENTAL MEDIA

No data available

SECTION 13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Dispose in accordance with all applicable regulations.

SECTION 14 TRANSPORTATION DATA

Water reactive solid, flammable, n.o.s. (Magnesium bis(dimethylaminodiboranate))

Class 4.3 (4.1)

UN3132

PG I

DOT, IMDG and IATA regulated

SECTION 15 REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

None of this products components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or required an OSHA process safety plan.

U.S. STATE REGULATIONS

None of this product's components are listed on the state lists from CA, MA, MN, NJ, or PA

Not regulated under California Proposition 65

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.

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SDS DEPT