

SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Bis(diethylamino)silane**

FORMULA: $C_8H_{22}N_2Si$

SYNONYMS: BDEAS, Bis(Diethylamino)Dihydridosilane, N,N,N',N'-tetraethyl-Silanediamine, SilaneDiAmine, N,N,N',N'-TetraEthyl

MANUFACTURER:

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

PHONE: 1-262-293-0251
FAX: 1-262-253-1258

IN CASE OF TRANSPORTATION EMERGENCY CONTACT CHEM-TREC 1-800-424-9300

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

SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Pictogram



Signal Word **DANGER**

Hazard Statements

H302	Harmful if swallowed.
H315	Causes skin irritation
H319	Causes serious eye irritation
H225	Highly flammable liquid and vapour
H242	Heating may cause a fire
H335	May cause respiratory irritation

SECTION 2 HAZARDS IDENTIFICATION (Cont.)

Precautionary Phrases

Bis(diethylamino)silane

P202	Do not handle until all safety precautions have been read and understood
P210	Keep away from heat/sparks/open flames/hot surfaces. –No smoking
P211	Do not spray on an open flame or other ignition source.
P222	Do not allow contact with air.
P231 + P232	Handle under inert gas. Protect from moisture.
P260	Do not breathe dust/fume/gas/mist/vapours/spray
P262	Do not get in eyes, on skin, or on clothing.
P264	Wash hands thoroughly after handling
P273	Avoid release into the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302 + P352	IF ON SKIN: wash with plenty of soap and water.

NFPA Rating:

Health: 2

Flammability: 3

Reactivity: 1

HMIS Rating:

Health: 3

Flammability: 4

Reactivity: 1

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: $C_8H_{22}N_2Si$

Molecular Weight: 174.36

CHEMICAL NAME	CAS#	%	TWA
Bis(diethylamino)silane	27804-64-4	>95	25 ppm

SECTION 4 FIRST AID MEASURES

EYE EXPOSURE: Immediately flush eyes with water for at least 15 minutes. Get immediate medical attention.

SKIN EXPOSURE: Flush with water and then wash with soap and water.

INHALATION: Move to fresh air. Get immediate medical attention.

INGESTION: Do NOT induce vomiting. Never give fluids to an unconscious person. Get immediate medical attention.

SECTION 5 FIREFIGHTING MEASURES

EXTINGUISHING MEDIA: Water spray, foam, carbon dioxide, dry chemical.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Organic acid vapors, diethylamine

ADVICE FOR FIRE FIGHTERS: Avoid eye and skin contact. Do not breathe fumes or inhale vapors.

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear protective equipment. Ensure adequate ventilation.

ENVIRONMENTAL PRECAUTIONS: Reaction with water in the environment will rapidly decompose to diethylamine

METHODS AND MATERIALS: Cover spill with absorbent material. Transfer to a suitable container for disposal. Absorb onto vermiculite and dispose of absorbent material as solid waste.

SECTION 7 HANDLING AND STORAGE

PERSONNEL PRECAUTIONS

Keep away from all ignition sources. Protect against electrostatic charges. Fumes can combine with air to form an explosive mixture. Handle under inert gas

CONDITIONS FOR SAFE STORAGE

Store in a standard flammable liquids cabinet or room. Keep away from moisture in a cool, well ventilated area.

INCOMPATIBILITIES:

Reacts with water and moisture in air liberating diethylamine. Avoid contact with alcohols, acids, and oxidizers.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT

VENTILATION: Chemical fume hood. Handle and use under inert atmosphere.

RESPIRATORY PROTECTION: TLV air-supplied or combination organic/vapor/amine gas respirator.

EYE/FACE PROTECTION: Protective goggles. Do not wear contact lenses.

SKIN PROTECTION: Rubber, neoprene, or nitrile gloves. Be sure there is an eyewash station and emergency shower available.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: Clear to straw liquid

FREEZING POINT: < 40 deg. C

MELTING POINT: < -10 deg. C

BOILING POINT: 70 deg. C @ 30 Torr

SPECIFIC GRAVITY: 0.804

FLASH POINT: > 30 deg. C

VAPOR PRESSURE: 1mm

SOLUBILITY IN WATER: Reacts

ODOR: Acrid amine odor

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable in sealed containers stored under a dry inert atmosphere

CONDITIONS TO AVOID: Avoid contact with heat, sparks, or open flame. Avoid contact with alcohols, acids, and oxidizers and moisture.

INCOMPATIBILITY: Reacts with water and moisture in air liberating diethylamine.

DECOMPOSITION PRODUCTS: Organic acid vapors, diethylamine.

SECTION 11 TOXICOLOGICAL DATA

ORAL TOXICITY

Not determined

CHRONIC TOXICITY

There are no known chronic effects related to this compound.

ADDITIONAL TOXICOLOGICAL INFORMATION

The hydrolysis products include diethylamine which is toxic and flammable.

SECTION 12 ECOLOGICAL DATA

COMPONENT ANALYSIS –AQUATIC TOXICITY

Very toxic for fish

GENERAL INFORMATION: Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground. Also poisonous for fish and plankton in water bodies.

Do not allow material to be released to the environment without proper governmental permits. Very toxic for aquatic organisms.

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of all product and materials according to the state, local, or national regulations.

SECTION 14 TRANSPORTATION DATA

Flammable liquid, corrosive, n.o.s. (Bis (Diethylamino) Silane)

Class 3 (8)

UN2924

PG III

IATA, IMDG, and DOT Regulated

SECTION 15 REGULATORY INFORMATION

OSHA HAZARDS

Flammable liquid, Corrosive

SARA 302 COMPONENTS

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

SARA 313 COMPONENTS

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.

MASSACHUSETTS RIGHT TO KNOW COMPONENTS

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

PENNSYLVANIA RIGHT TO KNOW COMPONENTS

Bis(diethylamino)silane

CAS-No.
27804-64-4

NEW JERSEY RIGHT TO KNOW COMPONENTS

Bis(diethylamino)silane

CAS-No.
27804-64-4

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: 10/13

SDS DEPT