

# SAFETY DATA SHEET

## SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **N,N-Dimethyltrimethylsilylamine**  
FORMULA: C<sub>5</sub>H<sub>15</sub>NSi  
CAS NO: 2083-91-2  
SYNONYMS: TMSDMA, dimethylaminotrimethylsilane, N-(Trimethylsilyl)dimethylamine, Pentamethylsilylamine

Intended Use: For R&D use only.

### MANUFACTURER:

WONIK MATERIALS NORTH AMERICA  
N115 W19392 EDISON DRIVE  
GERMANTOWN, WI 53022 USA

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

GHS CLASSIFICATION: Flammable liquids (category 2), H225 Skin corrosion (category 1B), H314 Serious eye damage (category 1), H318

Pictogram



Signal Word

**Danger**

N,N-Dimethyltrimethylsilylamine

## 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
P264	Wash hands 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): Take off 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 a doctor/physician
P321	Specific treatment (see supplemental first aid instruction on this label)
P363	Wash contaminated clothing before reuse
P370 + P378	In case of fire: Use dry powder for extinction
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up
P501	Dispose of contents/ container to an approved waste disposal plant

### OTHER HAZARDS

Reacts with ambient moisture to form Dimethylamine

### NFPA 704 RATINGS (SCALE 0-4):

Health: 3

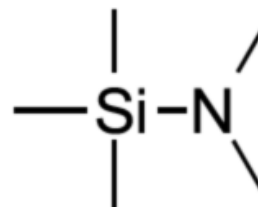
Flammability: 3

Reactivity: 0

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS#
N,N-Dimethyltrimethylsilylamine	2083-91-2
Formula: C <sub>5</sub> H <sub>15</sub> NSi	
Molecular weight: 117.26g/mol	
Synonyms: TMSDMA	

(Dimethylamino)trimethylsilane, N-(Trimethylsilyl)dimethylamine, Pentamethylsilylamine



N,N-Dimethyltrimethylsilylamine

## SECTION 4 FIRST AID MEASURES

**GENERAL ADVICE:** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**EYE EXPOSURE:** Immediately flush eyes with plenty of water for at least 15 minutes. A victim may need help keeping their eyelids open. Seek immediate medical attention. Continue rinsing during transport to hospital.

**SKIN EXPOSURE:** Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Seek medical attention.

**INHALATION:** Move victim into fresh air. If not breathing, give artificial respiration. Seek medical attention.

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

## SECTION 5 FIREFIGHTING MEASURES

### EXTINGUISHING MEDIA:

For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

### HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:

Carbon oxides, nitrogen oxides (NO<sub>x</sub>), and silicon oxides

### ADVICE FOR FIRE FIGHTERS

Wear self-contained breathing apparatus for firefighting if necessary.

### FURTHER INFORMATION

Use water spray to cool unopened containers.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS

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

For personal protection see section 8.

### ENVIRONMENTAL PRECAUTIONS

Prevent further leakage or spillage if safe to do so. Do not allow material to enter drains.

### METHODS AND MATERIALS

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

## SECTION 7 HANDLING AND STORAGE

### PRECAUTIONS FOR SAFE HANDLING

Avoid inhalation of vapor or mist.

Use explosion-proof equipment. Keep away from sources of ignition – No smoking. Take measures to prevent the buildup of electrostatic charge.

### CONDITIONS FOR SAFE STORAGE

Store in a cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Air and moisture sensitive. Store under inert gas. Hydrolyses readily.

### INCOMPATIBILITIES:

Exposure to air, moisture.

## 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.

### PERSONAL PROTECTIVE EQUIPMENT

**EYE/FACE PROTECTION:** Wear chemical safety goggles, faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH or EN.

**SKIN PROTECTION:** Compatible chemical-resistant gloves. Inspect gloves before each use. Use proper glove removal technique to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**BODY PROTECTION:** Complete suit protecting against chemicals, flame retardant antistatic protective clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**RESPIRATORY PROTECTION:** Use a full-face air-purifying respirator with multi-purpose combination or type ABEK 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.

### CONTROL OF ENVIRONMENTAL EXPOSURE

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**COLOR AND FORM:** Clear liquid

**FORMULA MASS:** 117.26 g/mol

**ODOR:** No data available

**ODOR THRESHOLD:** No data available

**pH:** Not available

**MELTING POINT/ FREEZING POINT:** not available

**BOILING POINT:** 84 °C

**FLASH POINT:** -12 °C –closed cup

**EVAPORATION RATE:** No data available

**UPPER/LOWER FLAMMABILITY/EXPLOSION LIMITS:** no data available

**VAPOR PRESSURE:** no data available

**VAPOR DENSITY:** no data available

**SPECIFIC GRAVITY:** 0.732 g/ml at 25 °C

**SOLUBILITY IN WATER:** No data available

**PARTITION COEFFICIENT: 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 in sealed containers and stored under a dry inert atmosphere.

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

**CONDITIONS TO AVOID:** Heat, flame, and sparks. Extremes of temperature and direct sunlight.

**INCOMPATIBLE MATERIALS:** Strong acids, Strong bases, Strong oxidizing agents. **HAZARDOUS**

**DECOMPOSITION PRODUCTS:** Dimethylamine

## SECTION 11 TOXICOLOGICAL DATA

**ACUTE TOXICITY:** No data available.

**SKIN CORROSIVE/IRRITANT:** No data available.

**SEROUS EYE DAMAGE/IRRITATION:** No data available.

**RESPIRATORY OR SKIN SENSITIZATION:** No data available

**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

**ASPIRATION HAZARD:** No data available

**ADDITIONAL INFORMATION:**

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Cough, shortness of breath, headache, 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 in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed waste disposal service to dispose of this material.

Dispose of contaminated packaging as unused product.

## SECTION 14 TRANSPORTATION DATA

DOT, IATA, IMDG Regulated:

Amines, flammable, corrosive, n.o.s. (N,N-Dimethyltrimethylsilylamine)

UN2733 Class 3 [8] PG: II

Marine pollutant: No

## SECTION 15 REGULATORY INFORMATION

**SARA 302/313 Components:**

No chemicals in this material are subject to reporting requirements of SAR Title III, Section 302 or 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/New Jersey Right to Know Components**

Pentamethylsilylamine CAS#2083-91-2

**California Prop. 65 Components**

This product does not contain any chemicals known to 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, LLC 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: 09/2018

SDS DEPT

N,N-Dimethyltrimethylsilylamine