

SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **N,N-Dimethyltrimethylsilylamine**
FORMULA: $C_5H_{15}NSi$
CAS NO: 2083-91-2
SYNONYMS: TMSDMA, dimethylaminotrimethylsilane, N-(Trimethylsilyl)dimethylamine, Pentamethylsilylamine

Intended Use: For R&D use only.

MANUFACTURER:

NOVA-KEM
N115 W19392 EDISON DRIVE
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IN CASE OF TRANSPORTATION EMERGENCY CONTACT CHEM-TREC 1-800-424-9300
CHEM-TREC INTERNATIONAL: +1-703-741-5500

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

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

Formula: $C_5H_{15}NSi$
Molecular weight: 117.26g/mol
Synonyms: TMSDMA
(Dimethylamino)trimethylsilane
N-(Trimethylsilyl)dimethylamine
Pentamethylsilylamine

CHEMICAL NAME	CAS#	PURITY
N,N-Dimethyltrimethylsilylamine	2083-91-2	99+%

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 (NOx), 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.

SERIOUS 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, Nova-Kem 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