

# MATERIAL SAFETY DATA SHEET

## DS 3000 SERIES PART B

### I. 24-HOUR EMERGENCY CONTACT INFORMATION

CHEM-TEL United States ..... 800-255-3924  
International ..... 813-248-0585

### II. HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

Component Identification	CASRN	OSHA PEL	ACGIH TLV	% (by weight)
Ceramic Microspheres <sup>(1)</sup>	0066402-68-4	15 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable dust)	10 mg/m <sup>3</sup> (inhalable dust) 3 mg/m <sup>3</sup> (respirable dust)	60 – 70
Amine Mixture	Proprietary	None Established		25 – 35
Silicon Dioxide (SiO <sub>2</sub> ) <sup>(1)</sup>	0112945-52-5	15 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable dust)	10 mg/m <sup>3</sup> (inhalable dust) 3 mg/m <sup>3</sup> (respirable dust)	1 – 5

<sup>(1)</sup> These materials are substantially incorporated into the mixture and exposure via inhalation is not likely to occur.

Product Description ..... **AMINE**

### III. PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point ..... > 482°F (250°C)  
Melting Point ..... Not Determined  
Vapor Pressure ..... < 1 mmHg @ 68°F (20°C)  
Vapor Density (Air = 1) ..... > 5  
Specific Gravity (Water = 1) ..... Not Determined  
Evaporation Rate (butyl acetate = 1) ..... Not Determined  
pH ..... Not Determined, Corrosive  
Appearance and Odor ..... Dark Brown Paste, Amine Odor  
Odor Threshold ..... Not Determined

### IV. FIRE and EXPLOSION HAZARDS

Flash Point ..... ~ 245°F (118°C), Pensky-Martens Closed Cup  
Autoignition Temperature ..... Not Determined  
LEL / UEL ..... 1.1% / 6.4%, Based on Triethylenetetramine  
Extinguishing Media ..... Dry Chemical, CO<sub>2</sub>, Water Fog, Alcohol Foam  
NFPA Ratings ..... Health (3) – Flammability (1) – Reactivity (1)

Special Firefighting Procedures: Do not direct a solid stream of water into hot burning polls, this may cause frothing and increase fire intensity. Use self-contained breathing apparatus and protective clothing.

Fire and Explosion Hazards: During a fire, oxides of nitrogen may be produced.

### V. REACTIVITY DATA

Stability ..... Stable  
Hazardous Polymerization ..... Will Not Occur  
Conditions to Avoid ..... Do not mix with nitrates or other nitrosating agents  
Incompatibilities ..... Oxidizing Materials, Halogenated Organics, Aldehydes, Ketones  
Hazardous Decomposition Products ..... NO<sub>x</sub>, CO, and CO<sub>2</sub>

[www.fgspipe.com](http://www.fgspipe.com)



2700 W. 65<sup>th</sup> St.  
Little Rock, AR 72209  
USA  
Phone: 501-568-4010  
Fax: 501-568-4465

25 S. Main St.  
Sand Springs, OK 74063  
USA  
Phone: 918-245-6651  
Fax: 918-245-7566

## VI. HEALTH HAZARD DATA

Route(s) of Entry: Inhalation..... Yes  
Skin..... Yes  
Ingestion..... Not Expected

Acute (Short-Term) Health Effects: This material is corrosive and irritating to the eyes, throat, and skin. Eye exposure may cause severe irritation with corneal injury that may result in permanent impairment, even blindness. Short-term skin exposure may cause severe burns and/or allergic skin reaction. Prolonged or widespread skin contact could result in the material being absorbed in harmful amounts. Inhalation of vapors may be irritating to the nose, throat, and chest causing runny nose and stuffiness, cough, and possibly difficulty breathing.

Chronic (Long-Term) Health Effects: Repeated or prolonged contact with the skin may cause dermatitis and skin sensitization.

Carcinogenicity: None of the chemicals in this product are classified as known or potential human carcinogens by the National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC), or OSHA.

Signs and Symptoms of Exposure: Signs and symptoms following exposure may include irritation and burning sensation to eyes, skin, and respiratory tract (if inhaled).

Medical Conditions Generally Aggravated by Exposure: Excessive exposure may aggravate preexisting asthma and dermatitis.

### Emergency and First Aid Procedures:

*Inhalation:* Remove to fresh air if exposure symptoms develop and seek medical attention.

*Skin Contact:* Gently wash all affected skin areas thoroughly with water soap and water while removing contaminated clothing. If irritation persists or burning sensation is evident, seek medical attention.

*Eye Contact:* Flush eyes with water for 20 to 30 minutes. Obtain prompt medical attention, preferably from an ophthalmologist.

*Ingestion:* Not expected under normal use conditions. However, if ingestion does occur, do not induce vomiting. Give large amounts of water or milk and seek medical attention.

HMIS Ratings ..... Health (3) – Flammability (1) – Reactivity (1)

## VII. PRECAUTIONS FOR SAFE HANDLING and USE

## VIII. CONTROL MEASURES

Respiratory Protection: None typically required for normal use. Self-contained breathing apparatus may be needed if product is used in a confined or poorly ventilated area.

Ventilation: A system of local and/or general exhaust is recommended.

Hand Protection: Gloves impervious to this material should be worn.

Eye Protection: ANSI-approved safety glasses with side shields or chemical goggles.

Other: Such clothing as to minimize or eliminate skin contact.

## IX. REGULATORY INFORMATION (Not meant to be all-inclusive)

### Hazardous Materials Transportation Act (HMTA)

This material should be classified as follows:

Proper Shipping Name .....Amines, Solid, Corrosive, n.o.s., Mixture  
(Triethylenetetramine)  
Hazard Class..... 8  
Identification Number ..... UN3259  
Packaging Group ..... II  
Label Required..... Corrosive

### Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

This produce contains the following CERCLA Section 102(a) hazardous substance(s) as listed in 40 CFR 302.4:

Identity	CASRN	% (by weight)	Reportable Quantity (RQ)
None			

Superfund Amendment and Reauthorization Act (SARA)

This product contains the following SARA Title III Section 302 extremely hazardous substance(s) as listed in 40 CFR Part 355:

Identify	CASRN	% (by weight)
None		

SARA Title III Section 311/312 hazardous categorization:

This product has been reviewed according to the EPA hazard categories promulgated under SARA Tile III Section 311 and 312 and is considered to meet the following hazard categories:

- An immediate (acute) health hazard
- A delayed (chronic) health hazard

This product contains the following SARA Title III Section 313 toxic substance(s) as listed in 40 CFR Part 372:

Identify	CASRN	% (by weight)
None		

Toxic Substances Control Act (TSCA)

All ingredients are on the TSCA inventory or are not required to be on the inventory.

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### CATALYST / HARDENER INDEX

The material described in this MSDS is intended for use with the following:

**DS 3000 SERIES PART A**

Review literature supplied with product or contact NOV Fiber Glass Systems for proper mixing ratios.

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The logo for NOV Fiber Glass Systems, featuring the letters "NOV" in a stylized font with a red circle, followed by "Fiber Glass Systems" in blue.

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