

MATERIAL SAFETY DATA SHEET

MSDS Name: NEUCoat - BG

Revision Date: 9/18/07

SECTION I – PRODUCT AND COMPANY INFORMATION

Product Name: NEUCoat
Item Number: NEUCoat – BG
Item Description: Mineral Absorbent Compound
Product Description: Mineral Absorbent Compound
Chemical Family: Silica-Based Minerals
Product Use: High-temperature bonding/adhesive compounds

Company Identification:

Telephone/Fax:
Chemtrec (24-hr. Emergency): (800) 424-9300/(703) 527-3887

SECTION II – COMPOSITION AND DATA ON COMPONENTS

COMPONENT/CAS #	ACGHI TLV	OSAH PEL	% WT	NOTES
QUARTZ 14808-60-7	.1MG/M3 (TWA)	NE (STEL)	<4%	
CRISTOBALITE 14464-46-1	0.025 MG/M3	0.025 MG/M3	<40%	
DIATOMACEOUS EARTH (DE) 68855-54-9			100%	

Exposure values shown for guidance only. Please follow applicable regulations.

SECTION III – HAZARDS IDENTIFICATION

HMIS Rating

Health 1
Flammability 0
Physical Hazard 1
Personal Protection B

Lung Cancer – Crystalline Silica (Quartz) inhaled from occupational sources is classified as carcinogenic to humans.

Tuberculosis – Silicosis increases the risk of tuberculosis

Autoimmune and Chronic Kidney Diseases – Some studies show excess numbers of cases of scleroderma, connective tissue disorders, lupus, rheumatoid arthritis, chronic kidney diseases and end-stage kidney disease in workers exposed to respirable crystalline silica.

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Non-Malignant Respiratory Diseases (other than silicosis) – Some studies show an increased incidence in chronic bronchitis and emphysema in workers exposed to respirable crystalline silica.

THRESHOLD LIMIT VALUE: SiO₂ – 0.025 mg/m³

EFFECTS OF OVEREXPOSURE: Since this product is a mixture, there is no exposure limit established. Hazardous components and their associated permissible exposure limits are listed in the section titled 'Composition and Data on Components.' Specific health hazards from the various ingredients: Dust may dehydrate mucous membrane; repeated inhalation or respirable-free dust may cause industrial bronchitis or delayed lung injury (silicosis).

SECTION IV – FIRST AID MEASURES

EYE CONTACT

None required

SKIN CONTACT

None required

INHALATION

Remove at once to fresh air at first signs of difficulty. If breathing is difficult, support with oxygen. If not breathing, start cardio-pulmonary resuscitation (CPR) immediately. Get medical attention.

INGESTION

Rinse out mouth with water

SECTION V – FIREFIGHTING MEASURES

AUTO IGNITION TEMPERATURE: N/A

EXPLOSION DATA – Not sensitive to mechanical impact or static discharge

EXTINGUISHING MEDIA: N/A

FIREFIGHTING PROCEDURES: Normal precautions are satisfactory

FLAMMABLE LIMITS LEL: N/A

FLAMMABLE LIMITS UEL: N/A

FLASHPOINT: F (C) (Method) Non-flammable

SECTION VI – ACCIDENTAL RELEASE MEASURES

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CLEANUP PROCEDURE

Sweep, scoop or vacuum discharged material. Flush residue with water. Observe environmental regulations.

SECTION VII – HANDLING AND STORAGE

Avoid breathing dust.

May cause irritation.

Keep container closed when not in use.

SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

Crystalline Silica (Quartz) – ACGIH TLV/TWA - .025 mg/m³-----NIOSH REL/TWA - .025 mg/m³
The OSHA PEL for crystalline silica as trydimite or cristobalite is one-half of the OSHA PEL for crystalline silica (quartz).

EYE PROTECTION: Safety glasses with side shields, chemical-type goggles or face shield. Contact lenses should not be worn.

RESPIRATORY PROTECTION: Use dust respirators in compliance with OSHA Standard 1910.134. For emergency, a self-contained positive-pressure breathing apparatus or full-face respirator is recommended. If TLV of any component is exceeded, use appropriate respiratory protection or ventilate in accordance with OSHA Regulation 29 CFR Part 1910.

SKIN PROTECTION: No special skin protection should be required. Wash skin after shift exposure.

VENTILATION: Provide adequate general and local exhaust ventilation to meet PEL requirements. Provide workers with dust respirators for use in emergency or non-routine situations where dust levels may exceed PEL. A NIOSH-approved half-face-piece respirator can be used up to 10x PEL. For up to 100x PEL, use a full-piece respirator with replacement dust filter. Higher exposures need an approved, air-supplied respirator.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

Form:	Powder
Appearance/Color:	White
Odor:	Odorless
Solubility (in water):	Negligible
Boiling Range:	N/A
Evaporation Rate:	N/A
Melting Point:	N/A
pH:	9.0 – 10.5

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Specific Gravity: 2.32
Vapor Density: N/A
Vapor Pressure: N/A
% Volatile by Volume: NIL

SECTION X – STABILITY AND REACTIVITY

STABILITY

This product is stable.

HAZARDOUS POLYMERIZATION

Will not occur.

CONDITIONS TO AVOID

None.

CHEMICAL INCOMPATIBILITIES

Hydrofluoric acid.

HAZARDOUS DECOMPOSITION PRODUCTS

Not known.

SECTION XI – TOXICOLOGICAL INFORMATION

ADDITIONAL INFORMATION: Crystalline Silica (Quartz)

Silicosis – The major concern is silicosis caused by the inhalation of respirable crystalline silica dust. Silicosis can exist in several forms, chronic (or ordinary), accelerated or acute.

Cancer – Silica is listed by IARC and NTP as having sufficient evidence to be a carcinogen in humans and in experimental animals for the carcinogenicity of quartz and cristobalite. The overall IARC evaluation was that crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (group 1).

Scleroderma – There is evidence that exposure to respirable crystalline silica or silicosis is associated with incidence of scleroderma of the lungs.

Tuberculosis – Individuals with silicosis are at risk to develop tuberculosis, if exposed to persons with tuberculosis.

Nephrotoxicity – Recent studies suggest that exposure to respirable crystalline silica or that the disease silicosis is associated with the increased incidence of kidney disorders.

INHALATION IRRITANT: Yes

SECTION XII – ECOLOGICAL INFORMATION

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Crystalline silica (quartz) is not known to be an environmental hazard.

SECTION XIII – DISPOSAL

WASTE DISPOSAL: Discarded product is not a hazardous waste under RCRA, 40 CFR 261. Dispose of in accordance with federal, state and local environmental regulations.

SECTION XIV – TRANSPORT INFORMATION

DOT I.D. No. – Not regulated

DOT SHIPPING NAME – Earth, Diatomaceous, crude or ground

DOT HAZARD CLASS – Not classified

SECTION XV – REGULATORY INFORMATION

SECTION 311/312 (40 CFR 370) HAZARDOUS CATEGORIES:

Delayed Hazard

Immediate Health Hazard

Section 313: Toxic categories (40 CFR 370) toxic chemicals above “De Minimis” level. There are no listed chemicals above detection limits in this compound.

CANADA

DSL: Components included on inventory.

TSCA NO – Crystalline silica (quartz) appears on the EPA TSCA inventory under the CAS No. 14808-60-7

RCRA – Crystalline silica (quartz) is not classified as a hazardous waste under the resource conservation and recovery act, or its regulations, 40 CFR 261 et seq

CERCLA – Crystalline silica (quartz) is not classified as a hazardous substance under regulations of the comprehensive environmental response compensation and liability act (CERCLA), 40 CFR 302

Emergency Planning and Community Right-to-Know Act (SARA Title III) – Crystalline silica (quartz) is not an extremely hazardous substance under section 302 and is not a toxic chemical subject to the requirements of section 313.

Clean Air Act – Crystalline silica (quartz) used by Sauereisen Inc. is not processed with or does not contain any Class I or Class II ozone-depleting substances.

FDA – Silica is included in the list of substances that may be included in coatings used in food contact surfaces, 21 CFR 175.300 (b) (3) (xxvi).

NTP – Respirable crystalline silica, primarily quartz dusts occurring in industrial and occupational settings, is classified as known to be a human carcinogen.

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OSHA Carcinogen – Crystalline silica (quartz) is not listed.

California Inhalation Reference Exposure Level (REL) – California established a chronic REL of 3 ug for silica (crystalline, respirable). A chronic REL is an airborne level of a substance at or below which no adverse health effects are anticipated in individuals indefinitely exposed to the substance at that level.

Massachusetts Toxic Use Reduction Act – Silica, Crystalline (respirable size, <10 microns) is toxic for purposes of the Massachusetts Toxic Use Reduction Act.

Pennsylvania Worker and Community Right-to-Know Act – Quartz is a hazardous substance under the act, but it is not a special hazardous substance or an environmental hazardous substance.

SECTION XVI – OTHER INFORMATION

This MSDS contains information and recommendations based upon present knowledge and data believed to be reliable. All data shown here are subject to reasonable variation and are supplied as an accommodation to the buyer. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. This MSDS applies only to the product in its “as manufactured” state, since the application to which the product is subjected may change is characteristics. The buyer is responsible for determining the safety, toxicity and suitability of the product under the conditions of their use of the product. Buyers also have the responsibility for ensuring that the MSDS is available to their employees, product users and handlers.