



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name BENTOSEAL®
Version # 05
Revision date 23-Jul-2008
Chemical description Grease
CAS # Mixture
Manufacturer information CETCO
Building Materials Group
One North Arlington
1500 West Shure Drive
Arlington Heights, IL 60004 US
safety.data@amcol.com
<http://www.cetco.com/bmg/home.htm>
General Information (800) 527-9948
CHEMTREC® (800) 424-9300

2. Hazards Identification

OSHA regulatory status This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

Potential health effects

Routes of exposure Inhalation.

Eyes Can cause severe eye irritation. Symptoms include itching, burning, redness and tearing. Vapors may also produce eye irritation.

Skin Contact will irritate or burn skin. Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Inhalation Prolonged or excessive inhalation may cause respiratory tract irritation. Intentional misuse by concentrating and inhaling the product can be harmful or fatal.

Ingestion Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic effects Some of the components of this product are hazardous in the respirable form. However, because of the physical nature of this product, dust generation is not expected. Overexposure to dust may result in pneumoconiosis, a respiratory disease caused by inhalation of mineral dust, which can lead to fibrotic changes to the lung tissue, or silicosis, a respiratory disease caused by inhalation of silica dust, which can lead to inflammation and fibrosis of the lung tissue.

3. Composition / Information on Ingredients

Components	CAS #	Percent
STODDARD SOLVENT	8052-41-3	10 - 20
Composition comments	This product contains naturally occurring crystalline silica (not listed in Annex I of Directive 67/548/EEC) in quantities less than 1%. This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	

4. First Aid Measures

First aid procedures

Eye contact Immediately flush eyes with plenty of water for at least 20 minutes. Get medical attention if irritation develops or persists.

Skin contact Immediately flush skin with running water for at least 20 minutes. Remove and isolate contaminated clothing and shoes. Get medical attention if irritation develops or persists.

Inhalation Move to fresh air. Oxygen or artificial respiration if needed. If the affected person is not breathing, apply artificial respiration. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention immediately.

Ingestion

If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration.

Notes to physician

Provide general supportive measures and treat symptomatically.

5. Fire Fighting Measures

Flammable properties

Vapors are heavier than air and may travel along the ground to some distant source of ignition and flash back. Container may explode in heat of fire. Empty containers may retain product residue including Flammable or Explosive vapors.

Extinguishing media**Suitable extinguishing media**

CO₂, dry chemical, dry sand, alcohol-resistant foam. Water may be an ineffective extinguishing medium. Use water to cool fire-exposed containers and to protect personnel.

6. Accidental Release Measures

Personal precautions

Ensure adequate ventilation. Ventilate closed spaces before entering. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Environmental precautions

Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

Methods for containment

Stop leak if you can do so without risk. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning up

Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Use clean non-sparking tools to collect absorbed material.

7. Handling and Storage

Handling

All equipment used when handling the product must be grounded. Use spark-proof tools and explosion-proof equipment.

Use only with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Wash hands after handling and before eating.

Do not reuse the empty container. "Empty" containers retain product residue (liquid or vapor) and can be dangerous.

Storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep this material away from food, drink and animal feed. Keep away from heat, sparks, and flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques.

8. Exposure Controls / Personal Protection

Occupational exposure limits**U.S. - OSHA****Components****CAS #****Type****Value**

STODDARD SOLVENT

8052-41-3

TWA

500 ppm

2900 mg/m³

Exposure guidelines

Some of the components of this product are hazardous in the respirable form. However, because of the physical nature of this product, dust generation is not expected.

ACGIH - Threshold Limit Values - TLV Basis - Critical Effects

QUARTZ

14808-60-7

lung cancer; pulmonary fibrosis

STODDARD SOLVENT

8052-41-3

CNS impairment; eye, kidney and skin damage; nausea

U.S. - OSHA - Final PELs - Table Z-3 Mineral Dusts

QUARTZ

14808-60-7

((250)/(%SiO₂ + 5) mppcf TWA (respirable)); ((10)/(%SiO₂ + 2) mg/m³ TWA (respirable)); ((30)/(%SiO₂ + 2) mg/m³ TWA (total dust))

Engineering controls

Ensure adequate ventilation, especially in confined areas. Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product.

Personal protective equipment**Eye / face protection**

Wear safety glasses; chemical goggles (if splashing is possible).

Skin protection

Impervious gloves should be used at all times when handling this product. If splashes are likely to occur, wear: solvent-resistant apron and boots

Respiratory protection

If ventilation is not sufficient to effectively prevent buildup of aerosols or vapors, appropriate NIOSH/MSHA respiratory protection must be provided. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

General hygiene considerations

Use good industrial hygiene practices in handling this material. Do not get this material in your eyes, on your skin, or on your clothing. Wash hands before breaks and immediately after handling the product. Launder contaminated clothing before reuse. Eye wash fountain and emergency showers are recommended.

9. Physical & Chemical Properties

Appearance	Paste.
Color	Brown to grey.
Odor	Solvent.
Odor threshold	Not available.
Physical state	Solid.
Form	Moist Solid.
pH	Not available.
Melting point	2192 °F (1200 °C) estimated
Freezing point	Not available.
Boiling point	352 °F (177.8 °C)
Flash point	115 °F (46.1 °C) Tag Closed Cup
Evaporation rate	70
Flammability	Not available.
Flammability limits in air, upper, % by volume	6
Flammability limits in air, lower, % by volume	0.5
Vapor pressure	5 mm Hg
Vapor density	5
Specific gravity	1.25
Relative density	Not available.
Solubility (water)	0.5 %
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Percent volatile	25 %

10. Chemical Stability & Reactivity Information

Chemical stability	Stable at normal conditions.
Conditions to avoid	Heat, flames and sparks.
Incompatible materials	None known.
Hazardous decomposition products	At thermal decomposition temperatures, carbon monoxide and carbon dioxide.
Possibility of hazardous reactions	Will not occur.

11. Toxicological Information

Component analysis - LD50

Toxicology Data - Selected LD50s and LC50s

QUARTZ 14808-60-7 Oral LD50 Rat: 500 mg/kg

Local effects

The product causes irritation of eyes, skin and mucous membranes. Inhalation of vapors is irritating to the respiratory system, may cause throat pain and cough.

Chronic effects

Some of the components of this product are hazardous in the respirable form. However, because of the physical nature of this product, dust generation is not expected. Overexposure to dusts may result in pneumoconiosis, which can lead to fibrotic changes in the lung tissue, or silicosis, a respiratory disease caused by inhalation of crystalline silica dust, which can lead to inflammation and fibrosis of the lung tissue.

Carcinogenicity

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

ACGIH - Threshold Limit Values - Carcinogens

QUARTZ 14808-60-7 A2 - Suspected Human Carcinogen

IARC - Group 1 (Carcinogenic to Humans)

QUARTZ 14808-60-7 Monograph 68 [1997] (listed under Crystalline silica inhaled in the form of quartz or cristobalite from occupational sources)

NTP (National Toxicology Program) - Report on Carcinogens - Known Human Carcinogens

QUARTZ 14808-60-7 Known Human Carcinogen

12. Ecological Information

Ecotoxicity

No data available for this product. Components of this product have been identified as having potential environmental concerns. In high concentrations, this product may be dangerous to aquatic life and fouling to shorelines.

Environmental effects

No data available for this product. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Persistence and degradability

Not available.

13. Disposal Considerations

Disposal instructions

Dispose in accordance with all applicable regulations.

14. Transport Information

DOT

Basic shipping requirements:

Proper shipping name Adhesives

Hazard class 3

UN number UN1133

Packing group III

Additional information:

Special provisions B1, B52, IB3, T2, TP1

Packaging exceptions 150

Packaging non bulk 173

Packaging bulk 242

ERG number 128



General

A flammable liquid with a flash point at or above 38 °C (100 °F) that does not meet the definition of any other hazard class may be reclassified as a combustible liquid. This provision does not apply to transportation by vessel or aircraft, except where other means of transportation is impracticable. The labeling and placarding requirements do not apply to a material classed as a combustible liquid in a non-bulk packaging unless the combustible liquid is a hazardous substance, a hazardous waste, or a marine pollutant.

IATA

Basic shipping requirements:

Proper shipping name	Adhesives
Hazard class	3
UN number	UN1133
Packing group	III
Additional information:	
Packaging exceptions	150
Packaging non bulk	173
Packaging bulk	242
Labels required	3



IMDG

Basic shipping requirements:

Proper shipping name	Adhesives
Hazard class	3
UN number	UN1133
Packing group	III
Additional information:	
Packaging exceptions	150
Labels required	3



15. Regulatory Information

US federal regulations OSHA Process Safety Standard: This material is not known to be hazardous by the OSHA Highly Hazardous Process Safety Standard, 29 CFR 1910.119.

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No
Section 302 extremely hazardous substance	No
Section 311 hazardous chemical	Yes

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of New and Existing Chemicals (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations

WARNING: This product contains a chemical known to the State of California to cause cancer.

U.S. - California - Proposition 65 - Carcinogens List

QUARTZ 14808-60-7 carcinogen, initial date 10/1/88 (airborne particles of respirable size)

U.S. - New Jersey - Right to Know Hazardous Substance List

QUARTZ 14808-60-7 sn 1660

STODDARD SOLVENT 8052-41-3 sn 1736

U.S. - Pennsylvania - RTK (Right to Know) List

QUARTZ 14808-60-7 Present

STODDARD SOLVENT 8052-41-3 Present

16. Other Information**Further information**

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

HMIS ratings

HMIS®	HMIS®	HMIS®	HMIS®	HMIS®	HMIS®	HMIS®
HMIS®	HEALTH	*	1	HMIS®	FLAMMABILITY	2
HMIS®	FLAMMABILITY	2	HMIS®	PHYSICAL HAZARD	0	HMIS®
HMIS®	PERSONAL PROTECTION	B	HMIS®	PERSONAL PROTECTION	B	HMIS®
HMIS®	PERSONAL PROTECTION	B	HMIS®	PERSONAL PROTECTION	B	HMIS®

NFPA ratings

Health: 1
Flammability: 2
Instability: 0

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release. The manufacturer expressly does not make any representations, warranties, or guarantees as to its accuracy, reliability or completeness nor assumes any liability, for its use. It is the user's responsibility to verify the suitability and completeness of such information for each particular use.

Third party materials: Insofar as materials not manufactured or supplied by this manufacturer are used in conjunction with, or instead of this product, it is the responsibility of the customer to obtain, from the manufacturer or supplier, all technical data and other properties relating to these and other materials and to obtain all necessary information relating to them. No liability can be accepted in respect of the use of this product in conjunction with materials from another supplier. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Issue date

23-Jul-2008

This data sheet contains changes from the previous version in section(s):

Transport Information: General

Other information

CETCO is a wholly owned division/subsidiary of AMCOL International Corp.