# MATERIAL SAFETY DATA SHEET



## 1. Product and Company Identification

**Material name BENTOSEAL®** 

Version # 80

**Revision date** 29-February-2012

Chemical description Grease CAS# Mixture **Manufacturer information** CETCO

> **Building Materials Group** 2870 Forbs Avenue

Hoffman Estates, IL 60192 United States

safety.data@amcol.com http://www.cetco.com/

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 pneumocononiosis, 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
Constituents	CAS#	Percent
QUARTZ	14808-60-7	-

**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.

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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.

**Protection of firefighters** 

Protective equipment and precautions for firefighters

Firefighters should wear full protective clothing including self contained breathing apparatus.

Fire fighting

equipment/instructions

Hazardous combustion

products

Not available.

Irritating, corrosive and/or toxic gases or fumes will be released during a fire.

#### 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** 

**Methods for containment** 

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

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

500 ppm

charge build-up by using common bonding and grounding techniques.

## 8. Exposure Controls / Personal Protection

**US. ACGIH Threshold Limit Values** 

#### Occupational exposure limits

(8052-41-3)

Components	Туре	Value		
STODDARD SOLVENT (8052-41-3)	TWA	100 ppm		
Additional components	Туре	Value	Form	
INERT OR NUISANCE DUSTS (SEQ250)	TWA	3 mg/m3	Respirable particles.	
		10 mg/m3	Inhalable particles.	
Constituents	Туре	Value	Form	
QUARTZ (14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.	
US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)				
Components	Туре	Value		
STODDARD SOLVENT	PEL	2900 mg/m3		

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US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) Value Additional components **Form** Type **INERT OR NUISANCE** PEL 5 mg/m3 Respirable fraction. DUSTS (SEQ250) 15 mg/m3 Total dust. US. OSHA Table Z-3 (29 CFR 1910.1000) Additional components Value **Form Type INERT OR NUISANCE** TWA Respirable fraction. 5 mg/m3 DUSTS (SEQ250) 15 mg/m3 Total dust. 50 mppcf Total dust. 15 mppcf Respirable fraction. Constituents Value **Form Type** QUARTZ (14808-60-7) TWA 0.3 mg/m3 Total dust. Respirable. 0.1 mg/m3 2.4 mppcf Respirable.

**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.

**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

Use good industrial hygiene practices in handling this material. Do not get this material in your considerations 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

Paste. **Appearance** Physical state Solid.

**Form** Moist Solid. Color Brown to grey.

Odor Solvent. **Odor threshold** Not available. Not available.

5 mm Hq Vapor pressure

0.000036 hPa estimated

Vapor density

**Boiling point** 352 °F (177.8 °C)

302 °F (150 °C) estimated

Melting point/Freezing point -94 °F (-70 °C) estimated

Solubility (water) 0.5 % Specific gravity 1.25

0.750075011 estimated

Relative density Not available.

115 °F (46.1 °C) Tag Closed Cup Flash point

100 °F (37.777799999 °C) estimated

Flammability limits in air, upper, < 6

% by volume

1.2 % estimated

Flammability limits in air, lower, > 0.5

% by volume

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450 °F (232.222200001 °C) estimated **Auto-ignition temperature** 

VOC 0 % estimated

70 **Evaporation rate** 25 % Percent volatile

0 % estimated

Other data

0.750000003 g/cm3 estimated **Density** Combustible II estimated Flammability class

Flash point class Combustible II

### 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

Toxicological data

Constituents **Test Results** 

QUARTZ (14808-60-7) Acute 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.

Some of the components of this product are hazardous in the respirable form. However, because **Chronic effects** 

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 Carcinogens** 

QUARTZ (CAS 14808-60-7) A2 Suspected human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

QUARTZ (CAS 14808-60-7)

US NTP Report on Carcinogens: Known carcinogen

QUARTZ (CAS 14808-60-7) Known To Be Human Carcinogen.

#### 12. Ecological Information

**Ecotoxicological data** 

**Product Test Results** 

LC50 Fish: 34545.4531 mg/l 96 hours estimated BENTOSEAL® (Mixture)

**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

1 Carcinogenic to humans.

aquatic life and fouling to shorelines.

No data available for this product. An environmental hazard cannot be excluded in the event of **Environmental effects** 

unprofessional handling or disposal.

Persistence and

degradability

Not available.

## 13. Disposal Considerations

**Disposal instructions** Dispose in accordance with all applicable regulations.

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### 14. Transport Information

#### DOT

Basic shipping requirements:

UN number UN1133

Proper shipping name Adhesives (STODDARD SOLVENT)

Hazard class 3
Packing group III

**Special precautions** 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 reclassed 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.

Additional information:

Special provisions B1, B52, IB3, T2, TP1

Packaging exceptions150Packaging non bulk173Packaging bulk242ERG number128

DOT

Packages less than 83 lbs

Basic shipping requirements:

UN number UN3077

**Proper shipping name** Environmentally hazardous substances, solid, n.o.s.

Hazard class 9
Packing group III

Environmental hazards

Marine pollutant Yes

**Special precautions** 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 reclassed 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.

Additional information:

**Special provisions** 8, 146, 335, A112, B54, IB8, IP3, N20, T1, TP33

Packaging exceptions155Packaging non bulk213Packaging bulk240ERG number128

IATA

Basic shipping requirements:

Proper shipping name Adhesives

Hazard class 3

UN number UN1133

Packing group

Additional information:

Packaging exceptions 150
Basic shipping requirements:
Labels required 3
Additional information:

Packaging non bulk 173 Packaging bulk 242

**IMDG** 

Basic shipping requirements:

Proper shipping name Adhesives

Hazard class 3
UN number UN1133

Packing group

Additional information:

Packaging exceptions 150
Basic shipping requirements:
Labels required 3







Packages less than 83 lbs

## 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.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2)

Not regulated

**DEA Essential Chemical Code Number** 

Not regulated

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Not regulated

**DEA Exempt Chemical Mixtures Code Number** 

Not regulated

# **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

Section 311 hazardous

chemical

No

No

#### **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 Existing Commercial Chemical Substances (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

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United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

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

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

QUARTZ (CAS 14808-60-7) Listed: October 1, 1988 Carcinogenic.

US - New Jersey RTK - Substances: Listed substance

QUARTZ (CAS 14808-60-7) Listed. STODDARD SOLVENT (CAS 8052-41-3) Listed.

US - Pennsylvania RTK - Hazardous Substances: Listed substance

QUARTZ (CAS 14808-60-7) Listed. STODDARD SOLVENT (CAS 8052-41-3) Listed.

#### 16. Other Information

State regulations

Further information This safety datasheet only contains information relating to safety and does not replace any

product information or product specification.

**HMIS® ratings** Health: 1\*

Flammability: 2 Physical hazard: 0 Personal protection: B

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 and is not to be considered a warranty or quality specification. The manufacturer expressly does not make any representations, warranties, or guarantees as to its accuracy, reliability or

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

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.

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