



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name WATERSTOP® RX
Version # 03
Revision date 30-January-2009
CAS # Mixture
Manufacturer CETCO
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2. Hazards Identification

Emergency overview 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.

Potential health effects

Routes of exposure

Inhalation.

Eyes

Dust or powder may irritate eye tissue.

Skin

Non-irritating to the skin.

Inhalation

Repeated or prolonged inhalation may cause toxic effects. For additional information on inhalation hazards, see Section 11 of this safety data sheet.

Ingestion

No significant adverse effects are expected upon ingestion of the product.

Target organs

Lungs.

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. Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled.

3. Composition / Information on Ingredients

| Components | CAS # | Percent |
|--|-----------|-----------|
| BENTONITE | 1302-78-9 | 60 - 100 |
| CARBON BLACK | 1333-86-4 | 0.5 - 1.5 |
| Non-hazardous and other components below reportable levels | | 15 - 40 |

Composition comments This product contains naturally occurring crystalline silica (not listed in Annex I of Directive 67/548/EEC) in quantities less than 6%.

4. First Aid Measures

First aid procedures

Eye contact

Flush eyes immediately with large amounts of water. If irritation persists get medical attention.

Skin contact

No special measures required. Get medical attention if irritation develops or persists.

Inhalation

Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get medical attention, if needed.

Ingestion

No special measures required. If ingestion of a large amount does occur, seek medical attention.

Notes to physician

Provide general supportive measures and treat symptomatically.

5. Fire Fighting Measures

| | |
|---|---|
| Flammable properties | May burn, but does not ignite readily. |
| Extinguishing media | |
| Suitable extinguishing media | Dry chemical, CO2, water spray or regular foam. Use any media suitable for the surrounding fires. |
| Protection of firefighters | |
| Protective equipment for firefighters | In the event of fire, wear self-contained breathing apparatus. |
| Special protective equipment for fire-fighters | In the event of fire, wear self-contained breathing apparatus. |
| Specific methods | In the event of fire and/or explosion do not breathe fumes. |
| Explosion data | |
| Sensitivity to mechanical impact | Not available. |
| Sensitivity to static discharge | Not available. |
| Hazardous combustion products | Irritating and toxic gases or fumes may be released during a fire. |

6. Accidental Release Measures

| | |
|----------------------------------|---|
| Environmental precautions | None known. |
| Methods for cleaning up | Shovel the material into waste container. |

7. Handling and Storage

| | |
|-----------------|--|
| Handling | Keep away from heat and flame. Use this product with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. |
| Storage | Keep in a cool, well-ventilated place. No special restrictions on storage with other products. |

8. Exposure Controls / Personal Protection

Occupational exposure limits

ACGIH

| Components | Type | Value | Form |
|--------------------------|-------------|--------------|-------------|
| CARBON BLACK (1333-86-4) | TWA | 3.5 mg/m3 | |

| Impurities | Type | Value | Form |
|---------------------|-------------|--------------|----------------------|
| QUARTZ (14808-60-7) | TWA | 0.025 mg/m3 | Respirable fraction. |

Canada - Alberta

| Components | Type | Value | Form |
|--------------------------|-------------|--------------|-------------|
| CARBON BLACK (1333-86-4) | TWA | 3.5 mg/m3 | |

| Impurities | Type | Value | Form |
|---------------------|-------------|--------------|-----------------------|
| QUARTZ (14808-60-7) | TWA | 0.1 mg/m3 | Respirable particles. |

Canada - British Columbia

| Components | Type | Value | Form |
|--------------------------|-------------|--------------|-------------|
| CARBON BLACK (1333-86-4) | TWA | 3.5 mg/m3 | |

| Impurities | Type | Value | Form |
|---------------------|-------------|--------------|----------------------|
| QUARTZ (14808-60-7) | TWA | 0.025 mg/m3 | Respirable fraction. |

Canada - Ontario

| Components | Type | Value | Form |
|--------------------------|-------------|--------------|-------------|
| CARBON BLACK (1333-86-4) | TWA | 3.5 mg/m3 | |

| Impurities | Type | Value | Form |
|---------------------|-------------|--------------|----------------------|
| QUARTZ (14808-60-7) | TWA | 0.1 mg/m3 | Respirable fraction. |

Canada - Quebec

| Components | Type | Value | Form |
|--------------------------|-------------|--------------|-------------|
| CARBON BLACK (1333-86-4) | TWA | 3.5 mg/m3 | |

| Impurities | Type | Value | Form |
|---------------------|-------------|--------------|------------------|
| QUARTZ (14808-60-7) | TWA | 0.1 mg/m3 | Respirable dust. |

| | |
|---------------------------------------|---|
| 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 | If material is ground, cut, or used in any operation which may generate dusts, use appropriate local exhaust ventilation to keep exposures below the recommended exposure limits. If engineering measures are not sufficient to maintain concentrations of dust particulates below the OEL, suitable respiratory protection must be worn. |
| Personal protective equipment | |
| Eye / face protection | Wear safety glasses; chemical goggles for fumes which may arise from thermal processing. Eye wash fountain is recommended. |
| Skin protection | No special protective equipment required. When material is heated, wear gloves to protect against thermal burns. |
| Respiratory protection | When dusts or thermal processing fumes are generated and ventilation is not sufficient to effectively remove them, appropriate NIOSH/MSHA approved respiratory protection must be provided. |
| General hygiene considerations | Use good industrial hygiene practices in handling this material. |

9. Physical & Chemical Properties

| | |
|---|--------------------|
| Appearance | Not available. |
| Color | Black. or red |
| Odor | Not available. |
| Odor threshold | Not available. |
| Physical state | Solid. |
| Form | Solid. |
| pH | Not available. |
| Melting point | Not available. |
| Freezing point | Not available. |
| Boiling point | Not available. |
| Flash point | Cleveland Open Cup |
| Evaporation rate | Not available. |
| Flammability | Not available. |
| Flammability limits in air, upper, % by volume | Not available. |
| Flammability limits in air, lower, % by volume | Not available. |
| Vapor pressure | Not available. |
| Vapor density | Not available. |
| Specific gravity | Not available. |
| Relative density | Not available. |

| | |
|--|----------------|
| Solubility (water) | Insoluble |
| Partition coefficient (n-octanol/water) | Not available. |
| Auto-ignition temperature | Not available. |
| Decomposition temperature | Not available. |

10. Chemical Stability & Reactivity Information

| | |
|---|--|
| Chemical stability | Stable at normal conditions. |
| Conditions to avoid | None known. |
| 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

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.

In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However in making the overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.)

In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer risk..." (SCOEL SUM Doc 94-final, June 2003)

According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits. Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled.

Carcinogenicity

IARC Monographs on Occupational Exposures to Chemical Agents: Overall evaluation

| | |
|--------------------------|-------------------------|
| CARBON BLACK (1333-86-4) | 2B Possible carcinogen. |
| QUARTZ (14808-60-7) | 1 Human carcinogen. |

12. Ecological Information

Ecotoxicological data

| Product | Test Results |
|-------------------------|--|
| WATERSTOP® RX (Mixture) | LC50 Fish: 14506 mg/l 96.00 Hours estimated |
| Components | Test Results |
| BENTONITE (1302-78-9) | LC50 Rainbow trout,donaldson trout (Oncorhynchus mykiss): 19000 mg/l 96.00 Hours |

* Estimates for product may be based on additional component data not shown.

| | |
|--------------------------------------|--|
| Ecotoxicity | No data available for this product. This material is not expected to be harmful to aquatic life. |
| Environmental effects | No data available for this product. Based on the physical properties of this product, significant environmental persistence and bioaccumulation would not be expected. |
| Persistence and degradability | Not available. |

13. Disposal Considerations

Disposal instructions Dispose in accordance with all applicable regulations. Material should be recycled if possible.

14. Transport Information

TDG

Not regulated as dangerous goods.

15. Regulatory Information

WHMIS classification D2A - Other Toxic Effects-VERY TOXIC

WHMIS labeling



WHMIS status

Controlled

Food and Drug Administration (FDA)

Total food additive
Indirect food additive
GRAS food additive

Inventory status

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|-----------------------------|---|------------------------|
| Australia | Australian Inventory of Chemical Substances (AICS) | Yes |
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |
| China | Inventory of Existing Chemical Substances in China (IECSC) | Yes |
| 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) | Yes |
| Korea | Existing Chemicals List (ECL) | Yes |
| New Zealand | New Zealand Inventory | Yes |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | Yes |
| 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)

16. Other Information

Recommended restrictions

Workers (and your customers or users in the case of resale) should be informed of the potential presence of respirable dust and respirable crystalline silica as well as their potential hazards. Appropriate training in the proper use and handling of this material should be provided as required under applicable 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 | 0 | |
| PHYSICAL HAZARD | 0 | |
| PERSONAL PROTECTION | | |

NFPA ratings

Health: 1
Flammability: 0
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 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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This data sheet contains changes from the previous version in section(s):

Other Information: Other information

Other information

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