

Material Safety Data Sheet

Date: 28 July 2009

Section I **PRODUCT NAME OR NUMBERS:**

**Tex Bond, Tex Bond Super 32, Tex Bond Super, Tex Bond Super H, Fire Pak Tubes, Tex Bond B
Ladle Mortar 80 S, Ladle Seal G**

Manufacturer's Name: **WESCO REFRACTORIES, INC.**
ADDRESS: **301 S. 6th Ave. Mansfield, Texas 76063**
Emergency Telephone Number: **817/332-1589**

Chemical Family: **Alumina-Silica**

Section II. **CHEMICAL COMPONENTS**

| | EXPOSURE LIMITS | | C.A.S. Number | Wt.% |
|--------------------------------|------------------------|-----|----------------------|-------------|
| | OSHA PELs | | | |
| Al ₂ O ₃ | 10 mg/m ³ | (D) | 1344-28-1 | 35-55 |
| Quartz/SiO ₂ | 30 mg/m ³ | | 14808-60-7 | 0.1-1.0 |
| Fe ₂ O ₃ | 5 mg/m ³ | | 1309-37-1 | 0.5-3.0 |
| CaO | 2 mg/m ³ | | 1305-78-8 | 0.1-0.3 |
| MgO | 10 mg/m ³ | | 1309-48-4 | 0.1-0.3 |
| Alkalis | | | | 2.5-6.0 |

Section III. **PHYSICAL DATA**

| | | | |
|-------------------------------------|------------------|---|------------|
| Boiling Point: | N/A | Specific Gravity (H₂O = 1): | 1.5-3.0 |
| Vapor Pressure mm Hg @ 20°C: | N/A | Percent Volatile by Volume: | None |
| Vapor Density (Air = 1): | N/A | Evaporative Rate (Ethyl ether = 1): | N/A |
| Solubility in Water: | Slight | pH= | 11-12 |
| Appearance: brown | Odor None | Material is : | Suspension |

Section IV. **FIRE AND EXPLOSION HAZARD DATA**

Closed Cup Flash Point of: N/A **LEL:** N/A %
Ignition Temperature of: N/A **UEL:** N/A %
Extinguishing Media: Water spray or foam, dry chemical, carbon dioxide
Special Fire Fighting Procedures: Non-combustible and not explosive. Move container from fire area if possible; avoid breathing vapors or dust. Protective clothing for skin and eyes should be worn.
Unusual Fire and Explosion Hazards: NONE

Section V. **TRANSPORTATION REQUIREMENTS**

D. O. T. Hazardous Material Proper Shipping Name (49CFR 172.101): None
D. O. T. Hazard Class (49CFR 172.101): None
D. O. T. Identification No.: None
EPA Hazardous Waste No.: None

Section VI. PHYSIOLOGICAL EFFECTS

EFFECTS OF EXPOSURE: This product contains cristobalite which is listed in IARC Group 2A as a probable human carcinogen. Product contains Sodium Silicate which may burn or damage skin or eyes.

ROUTE OF ENTRY: Inhalation

ACUTE: Transitory upper respiratory physical irritation. May be corrosive to eyes, skin, and mucous membranes of mouth, throat, esophagus and stomach. Will cause corneal damage if not promptly treated.

CHRONIC: Excessive inhalation of product dusts may cause bronchitis and lead to other respiratory disease.

INHALATION: Exposure to mist or spray may cause coughing, sneezing, or other symptoms of upper respiratory tract irritation.

EYES: Will cause tissue destruction and severe eye damage if not promptly treated possibly leading to the partial or complete loss of vision.

INGESTION: Causes severe irritation and possible tissue damage to mucous membranes of the mouth, throat, esophagus and stomach.

EMERGENCY AND FIRST AID PROCEDURES:

(1) **Eyes:** Flush with plenty of water for 15 minutes; **DO NOT RUB EYES** as aggregate will cut and scratch the cornea, **SEEK MEDICAL ATTENTION IMMEDIATELY.**

(2) **Skin:** Flush with large amounts of water, seek medical attention if irritation persists.

(3) **Inhalation:** Remove to fresh air; seek medical attention if irritation persists.

(4) **Ingestion:** Give large quantities of water and **DO NOT INDUCE VOMITING.** **SEEK MEDICAL ATTENTION IMMEDIATELY.**

Section VII. REACTIVITY DATA

| | | | |
|-----------------------------|--------|--|--------------|
| STABILITY: | Stable | INCOMPATIBILITY (Materials to Avoid): | Strong Acids |
| CONDITIONS TO AVOID: | None | DECOMPOSITION PRODUCTS: | N/A |

HAZARDOUS POLYMERIZATION Will Not Occur **CONDITIONS TO AVOID:** N/A

Section VIII. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Clean up (shovel if possible) spilled material into disposal containers, scrape up rest using clay or other absorbent material, mop or flush remaining residue material. Alternate method, if it does not pose a safety hazard, allow material to dry and then break up and dispose of solid concrete that forms (may require considerably more work, and depending on the size of the spill, anywhere from 1 Hr to 2-3 days to dry. Avoid Skin and Eye contact while working with this material.

WASTE DISPOSAL METHOD: Non-biodegradable. Observe all local, state and federal regulations when disposing. Material is strongly basic, and contains Sodium Silicate (Water glass).

Section IX. PERSONNEL PROTECTION (see instructions)

Wear a MSHA/NIOSH approved respirator in dusty environments. Local exhaust can be used to control airborne dust levels. Wear tight fitting goggles and/or face shield, apron, gloves and boots.

Section X. SPECIAL PRECAUTIONS

Keep dust in work area at a minimum and maintain air concentration of dust below Pel's Limit. Avoid inhalation of dust. Avoid eye and skin contact with materials. Never move a pail without securely replacing the containers lid and avoid actions which may cause this material to splash, especially after dilution with water.

The information given above is believed to be accurate and was obtained from sources believed to be reliable. However, the information is provided without any representation or warranty, expressed or implied, with respect to its accuracy or completeness. It is the users responsibility to determine the suitability of this product and relevance of this information for there use. We do not assume liability resulting from use, handling, storage, and disposal of this product.

Material Safety Data Sheet

Date 9/16/93

Section I **PRODUCT NAME OR NUMBERS:** **Wescolite 26 LI**

Manufacturer's Name: WESCO REFRACTORIES, INC.
 Address : 301 S. 6th Ave Mansfield, Texas 76063
 Emergency Telephone Number: 817/332-1589

Chemical Family: **Alumina-Silica**

Section II. **CHEMICAL COMPONENTS (List for all Ingredients)**

| | | EXPOSURE LIMITS | | | |
|--------------------------------|--------------|------------------------|-----|----------------------|----------|
| | | OSHA PELs | | C.A.S. Number | % |
| Al ₂ O ₃ | | 10 Mg/M ³ | (D) | 1344-28-1 | 45.80 |
| SiO ₂ | A & B | 30 Mg/M ³ | | 14808-60-7 | 37.20 |
| | 100 % Quartz | % Quartz +2 | | | |
| Fe ₂ O ₃ | | 5 Mg/M ³ | | 1309-37-1 | 0.80 |
| CaO | | 2 Mg/M ³ | | 1305-78-8 | 12.73 |
| MgO | | 10 Mg/M ³ | | 1309-48-4 | .26 |
| TiO ₂ | | 10 Mg/M ³ | | 13463-67-7 | 1.22 |
| Alkalies | | | | | 1.43 |

Section III. **PHYSICAL DATA**

| | | | |
|------------------------------|-----------|--|--------|
| Boiling Point: | N/A | Specific Gravity (H ₂ O = 1): | 2.2 |
| Vapor Pressure mm Hg @ 20°C: | N/A | Percent Volatile by Volume: | None |
| Vapor Density (Air = 1): | N/A | Evaporative Rate (Ethyl ether = 1): | N/A |
| Solubility in Water: | Slight | pH= | 8.7 |
| Appearance: red-grey | Odor None | Material is : | Powder |

Section IV. **FIRE AND EXPLOSION HAZARD DATA**

Closed Cup Flash Point of: N/A LEL: N/A %
 Ignition Temperature of: N/A UEL: N/A %
 Extinguishing Media: Water spray or foam, dry chemical, carbon dioxide
 Special Fire Fighting Procedures: Non-combustable and not explosive. Move container from fire area if possible;
 avoid breathing vapors or dust. Protective clothing for skin and eyes should be worn.
 Unusual Fire and Explosion Hazards: NONE

Section V. **TRANSPORTATION REQUIREMENTS**

| | |
|--|------|
| D. O. T. Hazardous Material Proper Shipping Name (49CFR 172.101): | None |
| D. O. T. Hazard Class (49CFR 172.101): | None |
| D. O. T. Identification No.: | None |
| EPA Hazardous Waste No.: | None |

Section VI. **PHYSIOLOGICAL EFFECTS**

EFFECTS OF EXPOSURE: This product contains cristobalite which is listed in IARC Group 2A as a probable human carcinogen. Contains cement; when mixed with water becomes caustic and will burn the eyes or skin.

ROUTE OF ENTRY: Inhalation

ACUTE: Transitory upper respiratory physical irritation, congestion of the throat, nasal passages, and upper respiratory system.

CHRONIC: Excessive inhalation of product dusts may cause bronchitis and lead to other respiratory disease. Cement dust can cause inflammation of the lining tissue of interior of the nose and of the cornea.

INHALATION: Exposure to dust or spray may cause coughing, sneezing, or other symptoms of upper respiratory tract irritation.

EYES: Will cause tissue destruction and eye damage if not promptly treated.

INGESTION: Causes severe irritation and possible tissue damage to mucous membranes of the mouth, throat, esophagus and stomach.

EMERGENCY AND FIRST AID PROCEDURES:

(1) Eyes: Flush with plenty of water for 15 minutes; SEEK MEDICAL ATTENTION IMMEDIATELY.

(2) Skin: Flush with large amounts of water.

(3) Inhalation: Remove to fresh air; seek medical attention if irritation persists.

(4) Ingestion: Give large quantities of water and SEEK MEDICAL ATTENTION IMMEDIATELY.

Section VII. REACTIVITY DATA

| | | | |
|---------------------------------|----------------|--|-----------------|
| STABILITY: | Stable | INCOMPATIBILITY (Materials to Avoid): | Strong oxidizer |
| CONDITIONS TO AVOID: | None | DECOMPOSITION PRODUCTS: | None |
| HAZARDOUS POLYMERIZATION | Will Not Occur | CONDITIONS TO AVOID: | N/A |

Section VIII. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Replace material in clean dry containers. Do not flush with water.

WASTE DISPOSAL METHOD: Non-biodegradable. Observe all local, state and federal regulations when disposing.

Section IX. PERSONNEL PROTECTION (see instructions)

Wear a MSHA/NIOSH approved respirator in dusty environments. Local exhaust can be used to control airborne dust levels.

Section X. SPECIAL PRECAUTIONS

Keep dust in work area at a minimum and maintain air concentration of dust below PEL's Limit. Avoid inhalation of dust. Avoid eye contact with materials.

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