

## Wearcoat 3020

### 1 PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier:** Wearcoat 3020  
**Common Name:** Lithium Silicate Mixture  
**SDS Number:** I143  
**Revision Date:** 2/12/2018  
**Version:** 1  
**Product Use:** Concrete hardener and densifier  
**Supplier Details:** Coatings for Industry, Inc.  
 319 Township Line Road  
 Souderton, PA 18964  
  
**Emergency:** Infotrac  
**Contact:** USA: 1-800-535-5053 / International :352-323-3500  
**Phone:** 215-723-0919  
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**Email:** cs@cficoatings.com  
**Web:** www.cficoatings.com

### 2 HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):**

Health, Skin corrosion/irritation, 2  
 Health, Serious Eye Damage/Eye Irritation, 2 A

#### GHS Label elements, including precautionary statements

**GHS Signal Word:** **WARNING**

**GHS Hazard Pictograms:**



**GHS Hazard Statements:**

H315 - Causes skin irritation  
 H319 - Causes serious eye irritation

**GHS Precautionary Statements:**

P262 - Do not get in eyes, on skin, or on clothing.  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
 P303+361+353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.  
 P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

**Ingredients:**

Cas#	%	Chemical Name
7732-18-5	90-92%	water
12627-14-4	8-10%	Silicic acid, lithium salt

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**4 FIRST AID MEASURES**

- Inhalation:** If inhaled, remove to fresh air. Call a physician if symptoms develop or persist.
- Skin Contact:** Remove contaminated clothing and shoes immediately. Promptly flush skin with water until all chemical is removed. Get medical attention if irritation develops and persists.
- Eye Contact:** Immediately flush eyes with large amounts of water for at least 15 minutes, lifting eyelids occasionally to facilitate irrigation. Then remove contact lenses, if easily removeable, and continue irrigation for not less than 15 minutes. Get immediate medical attention.
- Ingestion:** Do not induce vomiting. Wash out mouth with water and give 200-300 ml (half a pint) of water to drink. Obtain medical attention.

**5 FIRE FIGHTING MEASURES****Extinguishing media**

Suitable Extinguishing Media Compatible with all standard fire fighting techniques.

Unsuitable extinguishing Media None known.

**Special hazards arising from the substance or mixture**

Not applicable. Aqueous solution. Non-combustible.

**Advice for fire-fighters** None.

**6 ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

Wear suitable protective clothing. Wear eye/face protection.

**Environmental precautions**

Do not allow to enter drains, sewers or watercourses. Advise authorities if spillage has entered water course or sewer or has contaminated soil or vegetation.

**Methods and materials for containment and cleaning up**

Caution - spillages may be slippery. Contain spillages with sand, earth or any suitable adsorbent material. Transfer to a container for disposal or recovery.

**7 HANDLING AND STORAGE****Handling Precautions:**

Avoid contact with eyes, skin and clothing.  
 Avoid generation of mist. Provide adequate ventilation.  
 Emergency shower and eye wash facilities should be readily available.  
 Wear protective equipment to comply with good occupational hygiene practice  
 Do not eat, drink or smoke at the work place.

**Storage Requirements:**

Keep at a temperature not exceeding (°C): 50 .  
 Do not allow material to freeze.  
 Provide an adequate bund wall.  
 Unsuitable containers: Aluminium

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**8 EXPOSURE CONTROLS/PERSONAL PROTECTION****Engineering Controls:**

Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (dilution and local exhaust), and control of process conditions

**Personal Protective Equipment:**

Silicic acid, lithium salt (12627-14-4) [8-10%]

Personal protective equipment

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection: Handle with gloves. Plastic or rubber gloves. For example EN374-3, level 6 breakthrough time (>480min). Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection: Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection: impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Silicic acid, lithium salt (12627-14-4)**

No Occupational Exposure Limit assigned.

An exposure limit of 1 mg/m<sup>3</sup> (15 min TWA) is recommended by analogy with lithium hydroxide (UK EH40).

**9 PHYSICAL AND CHEMICAL PROPERTIES****10 STABILITY AND REACTIVITY****Chemical Stability:**

Product is stable under normal conditions.

**Materials to Avoid:**

This product will react with aluminium, zinc, tin and their alloys evolving hydrogen gas which can form an explosive mixture with air. Can react violently if in contact with acids. Can react with sugar residues to form carbon monoxide.

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**11 TOXICOLOGICAL INFORMATION****Information on toxicological effects****Acute toxicity**

Ingestion Lithium compounds may damage the central nervous system. A large dose may have the following effects: headache, nausea, dizziness, convulsions, kidney damage.

Inhalation Mist is irritant to the respiratory tract.

Skin Contact Repeated and/or prolonged skin contact may cause slight irritation.

Eye Contact Liquid or mist may cause discomfort and mild irritation.

**Skin corrosion/irritation**

Irritating to skin.

**Serious eye damage/irritation**

Irritating to eyes.

**Sensitisation**

Not sensitising.

**Mutagenicity**

No data.

**Carcinogenicity**

IARC, NTP, OSHA, ACGIH do not list this product or any components thereof as known or suspected carcinogen.

**Reproductive toxicity**

Lithium compounds - teratogenic effects have been observed in laboratory animals.

**STOT - single exposure**

Not classified.

**STOT - repeated exposure**

Not classified.

**Aspiration hazard**

Not classified.

**12 ECOLOGICAL INFORMATION****Toxicity**

Lithium compounds - no data.

**Persistence and degradability**

Inorganic. Soluble silicates, upon dilution, rapidly depolymerise into molecular species indistinguishable from natural dissolved silica.

**Bioaccumulative potential**

Inorganic. The substance has no potential for bioaccumulation.

**Mobility in soil**

Not applicable.

**Results of PBT and vPvB assessment**

Not classified as PBT or vPvB.

**Other adverse effects**

The alkalinity of this material will have a local effect on ecosystems sensitive to changes in pH.

**13 DISPOSAL CONSIDERATIONS**

Disposal should be in accordance with local, state or national legislation.

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<b>14</b>	<b>TRANSPORT INFORMATION</b>
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IATA: Not regulated for transport by air  
 IMDG: Not regulated for transport by sea  
 DOT: Not regulated for surface transport

<b>15</b>	<b>REGULATORY INFORMATION</b>
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Component (CAS#) [%] - CODES

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 Water (7732-18-5) [90-92%] TSCA

Silicic acid, lithium salt (12627-14-4) [8-10%] TSCA

Regulatory CODE Descriptions

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 TSCA = Toxic Substances Control Act

<b>16</b>	<b>OTHER INFORMATION</b>
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