1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier
Product Name: SUPER FLEX
Product Description: UNDERCOATING

Other means of identification
Product # 64714SF
Synonyms None

Details of the supplier of the safety data sheet
Company Name CHEMCO INDUSTRIES, INC.
5731 Manchester Avenue
St. Louis, MO 63110
www.chemcoindustries.com
314-647-1888
1-800-854-4236 (to Reorder)

Emergency telephone number
Emergency Telephone INFOTRAC 1-800-535-5053

2. HAZARDS IDENTIFICATION

Classification
Specific Target Organ Toxicity - Single Exposure (Narcotic Effects) - Category 3
Specific Target Organ Toxicity - Repeated Exposure - Category 1
Aspiration Hazard - Category 1
Reproductive Toxicity - Category 2
Aerosol - Category 1
Flammable Liquids - Category 2

Pictograms

Signal Word
Danger

Hazardous Statements - Physical
H225 - Highly flammable liquid and vapor
H222, H229 - Extremely flammable aerosol, Pressurized container may burst if heated

**Hazardous Statements - Health**

H336 - May cause drowsiness or dizziness
H372 - Causes damage to organs through prolonged or repeated exposure.
H304 - May be fatal if swallowed and enters airways
H361 - Suspected of damaging fertility or the unborn child.

**Precautionary Statements - General**

P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
P103 - Read label before use.

**Precautionary Statements - Prevention**

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P211 - Do not spray on an open flame or other ignition source.
P251 - Do not pierce or burn, even after use.
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
P271 - Use only outdoors or in a well-ventilated area.
P233 - Keep container tightly closed.
P264 - Wash thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.

**Precautionary Statements - Response**

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P370 + P378 - In case of fire: Use water fog, dry chemical or carbon dioxide to extinguish.
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
P314 - Get Medical advice/attention if you feel unwell.
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P331 - Do NOT induce vomiting.
P308 + P313 - IF exposed or concerned: Get medical advice/attention.

**Precautionary Statements - Storage**

P235 - Keep cool.
P403 - Store in a well-ventilated place. P405 - Store locked up.
P410 - Protect from sunlight.
P412 - Do not expose to temperatures exceeding 50°C/122°F.

**Precautionary Statements - Disposal**

P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CAS</th>
<th>Chemical Name</th>
<th>% by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>0000471-34-1</td>
<td>CALCIUM CARBONATE</td>
<td>18% - 32%</td>
</tr>
<tr>
<td>0008052-42-4</td>
<td>BITUMENS</td>
<td>18% - 32%</td>
</tr>
<tr>
<td>0000108-88-3</td>
<td>TOLUENE</td>
<td>9% - 20%</td>
</tr>
</tbody>
</table>
4. FIRST AID MEASURES

**Inhalation**
Remove source of exposure or move person to fresh air and keep comfortable for breathing. If exposed/feel unwell/concerned: Call a POISON CENTER/doctor. Eliminate all ignition sources if safe to do so.

**Eye Contact**
Remove source of exposure or move person to fresh air. Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for a duration of 15-20 minutes. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists: Get medical advice/attention.

**Skin Contact**
Take off immediately all contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Gently blot or brush away excess product. Wash with plenty of lukewarm, gently flowing water for a duration of 15-20 minutes. Call a POISON CENTER/doctor if you feel unwell. Store contaminated clothing under water and wash before reuse or discard.

**Ingestion**
Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. If vomiting occurs naturally, lie on your side, in the recovery position. Never give anything by mouth to an unconscious or convulsing victim. Keep person warm and quiet.

5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**
Use water, fog, dry chemical, or carbon dioxide. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.

**Unsuitable Extinguishing Media**
Water may be ineffective but can be used to cool containers exposed to heat or flame.

**Specific Hazards in Case of Fire**
Contents under pressure. Keep away from ignition sources and open flames. Exposure of containers to extreme heat and flames can cause them to rupture often with violent force.
Aerosol cans may rupture when heated.
Heated cans may burst.
In fire, will decompose to carbon dioxide, carbon monoxide

**Fire-Fighting Procedures**
Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel.
Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

**Special Protective Actions**
Wear protective pressure self-contained breathing apparatus (SCBA) and full turnout gear. Care should always be exercised in dust/mist areas.
6. ACCIDENTAL RELEASE MEASURES

**Emergency Procedure**
Flammable/combustible material. ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stay upwind; keep out of low areas. Immediately turn off or isolate any source of ignition. Keep unnecessary people away; isolate hazard area and deny entry. Do not touch or walk through spilled material. Clean up immediately. Use absorbent sweeping compound to soak up material and put into suitable container for proper disposal.

**Recommended Equipment**
Positive pressure, full-face piece self-contained breathing apparatus (SCBA), or positive pressure supplied air respirator with escape SCBA (NIOSH approved).

**Personal Precautions**
ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Use explosion proof equipment. Avoid breathing vapor. Avoid contact with skin, eye or clothing. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

**Environmental Precautions**
Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.

7. HANDLING AND STORAGE

**General**
For industrial and institutional use only.
For use by trained personnel only.
Keep away from children.
Wash hands after use.
Do not get in eyes, on skin or on clothing.
Do not breathe vapors or mists.
Use good personal hygiene practices.
Eating, drinking and smoking in work areas is prohibited.
Remove contaminated clothing and protective equipment before entering eating areas.
Eyewash stations and showers should be available in areas where this material is used and stored.

**Ventilation Requirements**
Use only with adequate ventilation to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source.

**Storage Room Requirements**
Keep container(s) tightly closed and properly labeled. Store in cool, dry, well-ventilated areas away from heat, direct sunlight and incompatibilities. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet OSHA standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty container retain residue and may be dangerous.

Do not cut, drill, grind, weld, or perform similar operations on or near containers. Do not pressurize containers to empty them. Ground all structures, transfer containers and equipment to conform to the national electrical code. Use procedures that prevent static electrical sparks. Static electricity may accumulate and create a fire hazard.

Store at temperatures below 120°F.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Eye Protection**
Chemical goggles, safety glasses with side shields or vented/splash proof goggles. Contact lenses may absorb irritants. Particles may adhere to lenses and cause corneal damage.

**Skin Protection**
Wear gloves, long sleeved shirt, long pants and other protective clothing as required to minimize skin contact.

Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Chemical-resistant clothing is recommended to avoid prolonged contact. Avoid unnecessary skin contact.

Respiratory Protection

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for combined particulate/organic gases and vapors.

When spraying more than one half can continuously or more than one can consecutively, use NIOSH approved respirator.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>OSHA TWA (ppm)</th>
<th>OSHA TWA (mg/m3)</th>
<th>OSHA STEL (ppm)</th>
<th>OSHA STEL (mg/m3)</th>
<th>OSHA-Tables-Z1.2.3</th>
<th>OSHA Carcinogen</th>
<th>OSHA Skin designation</th>
<th>NIOSH TWA (ppm)</th>
<th>NIOSH TWA (mg/m3)</th>
<th>NIOSH STEL (ppm)</th>
<th>NIOSH STEL (mg/m3)</th>
<th>NIOSH Carcinogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>BITUMENS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUTANE</td>
<td>800</td>
<td>1900</td>
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<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>CALCIUM CARBONATE</td>
<td>[15]; [5 (a)];</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10.5a</td>
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<td>ISOBUTANE</td>
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<td>1000</td>
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<td></td>
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<td></td>
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<tr>
<td>TOLUENE</td>
<td>200 (a)/300 ceiling</td>
<td>0.2</td>
<td>500ppm/10 minutes (a)</td>
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<td></td>
<td>100</td>
<td>375</td>
<td>150</td>
<td>560</td>
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<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TWA (ppm)</th>
<th>ACGIH TWA (mg/m3)</th>
<th>ACGIH STEL (ppm)</th>
<th>ACGIH STEL (mg/m3)</th>
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<tr>
<td>BITUMENS</td>
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</tr>
<tr>
<td>CALCIUM CARBONATE</td>
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</tr>
<tr>
<td>ISOBUTANE</td>
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<tr>
<td>PROPANE</td>
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<td></td>
<td></td>
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<tr>
<td>TOLUENE</td>
<td>20</td>
<td>0.2</td>
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</table>

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Density | 7.88656 lb/gal
Density VOC | 3.07576 lb/gal
% VOC | 39.00000%
VOC Actual | 3.07576 lb/gal
VOC Actual | 368.56822 g/l
VOC Regulatory | 3.07576 lb/gal
<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>VOC Regulatory</td>
<td>368.56822 g/l</td>
</tr>
<tr>
<td>Appearance</td>
<td>Asphalt</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>N.A.</td>
</tr>
<tr>
<td>Odor Description</td>
<td>N.A.</td>
</tr>
<tr>
<td>pH</td>
<td>N.A.</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Nil</td>
</tr>
<tr>
<td>Flammability</td>
<td>Flashpoint below 73 °F</td>
</tr>
<tr>
<td>Flash Point Symbol</td>
<td>N.A.</td>
</tr>
<tr>
<td>Flash Point</td>
<td>&lt;0 °F</td>
</tr>
<tr>
<td>Viscosity</td>
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<tr>
<td>Lower Explosion Level</td>
<td>1</td>
</tr>
<tr>
<td>Upper Explosion Level</td>
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<tr>
<td>Melting Point</td>
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<td>Vapor Density</td>
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<tr>
<td>Freezing Point</td>
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</tr>
<tr>
<td>Low Boiling Point</td>
<td>0 °F</td>
</tr>
<tr>
<td>High Boiling Point</td>
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</tr>
<tr>
<td>Decomposition Pt</td>
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</tr>
<tr>
<td>Auto Ignition Temp</td>
<td>N.A.</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Slower than ether</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

**Stability**

Stable.

**Conditions to Avoid**

High temperatures.

**Incompatible Materials**

None known.

**Hazardous Reactions/Polymerization**

Will not occur.

**Hazardous Decomposition Products**

In fire, will decompose to carbon dioxide, carbon monoxide.
11. TOXICOLOGICAL INFORMATION

**Skin Corrosion/Irritation**
Overexposure will cause defatting of skin.

**Serious Eye Damage/Irritation**
Overexposure will cause redness and burning sensation.

**Carcinogenicity**
No data available

**Germ Cell Mutagenicity**
No data available

**Reproductive Toxicity**
Suspected of damaging fertility or the unborn child.

**Respiratory/Skin Sensitization**
No data available

**Specific Target Organ Toxicity - Single Exposure**
May cause drowsiness or dizziness

**Specific Target Organ Toxicity - Repeated Exposure**
Causes damage to organs through prolonged or repeated exposure.

**Aspiration Hazard**
May be fatal if swallowed and enters airways

**Acute Toxicity**
Inhalation: effect of overexposure include irritation of respiratory tract, headache, dizziness, nausea, and loss of coordination. Extreme overexposure may result in unconsciousness and possibly death.

<table>
<thead>
<tr>
<th>Substance</th>
<th>LC50 (rat)</th>
<th>LD50 (oral, rat)</th>
<th>LD50 (oral, neonatal rat)</th>
<th>LD50 (dermal, rabbit)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene</td>
<td>8800 ppm (4-hour exposure)</td>
<td>2600 to 7500 mg/kg (3, 5, 11, 17)</td>
<td>less than 870 mg/kg (3)</td>
<td>12,225 mg/kg (reported as 14.1 ml/kg)</td>
</tr>
<tr>
<td>Isobutane</td>
<td>520,000 ppm (52%)</td>
<td>14,000 mg/m3 (48-hour exposure)</td>
<td>less than 870 mg/kg (3)</td>
<td>12,225 mg/kg (reported as 14.1 ml/kg)</td>
</tr>
<tr>
<td>Butane</td>
<td>202,000 ppm (48-hour exposure)</td>
<td>276,000 ppm (658 mg/m3)</td>
<td>less than 870 mg/kg (3)</td>
<td>12,225 mg/kg (reported as 14.1 ml/kg)</td>
</tr>
</tbody>
</table>

**Chronic Exposure**

**Potential Health Effects - Miscellaneous**

Increased susceptibility to the effects of this material may be observed in people with existing disease of any of the following: central nervous system, kidneys, liver, respiratory system, skin. Can be absorbed through the skin in harmful amounts. Recurrent overexposure may result in liver and kidney injury. High airborne levels have produced
irregular heart beats in animals and occasional palpitations in humans. Rats exposed to very high airborne levels have exhibited high frequency hearing deficits. The significance of this to man is unknown. WARNING: This chemical is known to the State of California to cause birth defects or other reproductive harm.

008052-42-4 BITUMENS
Is an IARC carcinogen. Occupational exposures to straight-run bitumens and their emissions during road paving are possibly carcinogenic to humans (Group 2B)

0064742-88-7 MEDIUM MINERAL SPIRITS
Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: central nervous system, kidneys, liver, respiratory system, skin. This substance may cause damage to any of the following organs/systems: blood, central nervous system, eyes, kidneys, liver, lungs, reproductive system, skin. Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors.

12. ECOLOGICAL INFORMATION

Toxicity
No data available.

Persistence and Degradability
No data available.

Bio-Accumulative Potential
No data available.

Mobility in Soil
No data available.

Other Adverse Effects
No data available.

13. DISPOSAL CONSIDERATIONS

Water Disposal
Under RCRA, it is the responsibility of the user of the product, to determine a the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state, and local laws.

Empty containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

14. TRANSPORT INFORMATION

U.S. DOT Information
Consumer Commodity, ORM-D

IMDG Information
Consumer Commodity, ORM-D

IATA Information
Consumer Commodity, ORM-D
15. REGULATORY INFORMATION

<table>
<thead>
<tr>
<th>CAS</th>
<th>Chemical Name</th>
<th>% By Weight</th>
<th>Regulation List</th>
</tr>
</thead>
<tbody>
<tr>
<td>0000074-98-6</td>
<td>PROPANE</td>
<td>4% - 9%</td>
<td>SARA312,VOC,TSCA,ACGIH,OSHA</td>
</tr>
<tr>
<td>0000075-28-5</td>
<td>ISOBUTANE</td>
<td>1% - 3%</td>
<td>SARA312,VOC,TSCA,ACGIH</td>
</tr>
<tr>
<td>000106-97-8</td>
<td>BUTANE</td>
<td>2% - 5%</td>
<td>SARA312,VOC,TSCA,ACGIH</td>
</tr>
<tr>
<td>000108-88-3</td>
<td>TOLUENE</td>
<td>9% - 20%</td>
<td>CERCLA,HAPS,SARA312,SARA313,VOC,TSCA,RCRA,OH_TOX,ACGIH,CA_Prop65 - California</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Regulation List</td>
</tr>
<tr>
<td>000471-34-1</td>
<td>CALCIUM CARBONATE</td>
<td>18% - 32%</td>
<td>SARA312,TSCA</td>
</tr>
<tr>
<td>008052-42-4</td>
<td>BITUMENS</td>
<td>18% - 32%</td>
<td>SARA312,TSCA,ACGIH</td>
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<tr>
<td>006474-88-7</td>
<td>MEDIUM MINERAL SPIRITS</td>
<td>4% - 10%</td>
<td>SARA312,VOC,TSCA</td>
</tr>
</tbody>
</table>

16. OTHER INFORMATION

Glossary

* There are points of differences between OSHA GHS and UN GHS. In 90% of the categories, they can be used interchangeably, but for the Skin Corrosion/Irritant Category and the Specific Target Organ Toxicity (Single and Repeated Exposure) Categories. In these cases, our system will say UN GHS.

ACGIH- American Conference of Governmental Industrial Hygienists; ANSI- American National Standards Institute; Canadian TDG- Canadian Transportation of Dangerous Goods; CAS- Chemical Abstract Service; Chemtrec- Chemical Transportation Emergency Center (US); CHIP- Chemical Hazard Information and Packaging; DSL- Domestic Substances List; EC- Equivalent Concentration; EH40 (UK)- HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA- Emergency Planning and Community Right-To-Know Act; ESL- Effects screening levels; HMIS- Hazardous Material Information Service; LC- Lethal Concentration; LD- Lethal Dose; NFPA- National Fire Protection Association; OEL- Occupational Exposure Limit; PEL- Permissible Exposure Limit; SARA (Title III)- Superfund Amendments and Reauthorization Act; SARA 313- Superfund Amendments and Reauthorization Act, Section 313; SCBA- Self-Contained Breathing Apparatus; STEL- Short Term Exposure Limit; TCEQ- Texas Commission on Environmental Quality; TLV- Threshold Limit Value; TSCA- Toxic Substances Control Act Public Law 94-469; TWA- Time Weighted Value; US DOT- US Department of Transportation; WHMIS- Workplace Hazardous Materials Information System.

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DISCLAIMER

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are...
the only hazards that exist. The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.