

## 1. Product and Company Identification Material

|                                   |   |
|-----------------------------------|---|
| <b>name</b>                       | <b>X-36 A Nuclear Grade</b>   |
| <b>Version #</b>                  | 01  |
| <b>Issue date</b>                 | 20-August-2013  |
| <b>Revision date</b>              | 20-August-2013  |
| <b>Supersedes date</b>            | 14-February-2013  |
| <b>Chemical name</b>              | Silicone Rubber   |
| <b>Chemical description</b>       | Bonder  |
| <b>CAS #</b>                      | Mixture   |
| <b>Product code</b>               | 805-0007  |
| <b>Product use</b>                | Industrial Leak Sealant.  |
| <b>Manufacturer information</b>   |   |
| <b>Manufacturer/Supplier</b>      | Team Industrial Services, Inc.  |
| <b>Address</b>                    | 200 Hermann Drive, Alvin, Texas 77511, US   |
| <b>Emergency telephone number</b> | CHEMTREC - 24 HOURS<br><br>USA: CHEMTREC: 800-424-9300<br>International: 703-527-3887 (Collect) |

## 2. Hazards Identification

|  |  |
|--|--|
| <b>Physical state</b>                  | Liquid.  |
| <b>Appearance</b>                      | Blue liquid.   |
| <b>Emergency overview</b>              | WARNING<br><br>Causes eye irritation.  |
| <b>OSHA regulatory status</b>          | This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).  |
| <b>Potential health effects</b>        |  |
| <b>Routes of exposure</b>              | Eye contact.   |
| <b>Eyes</b>                            | Causes eye irritation.   |
| <b>Skin</b>                            | Prolonged and/or repeated skin contact with this product may cause irritation/dermatitis.  |
| <b>Inhalation</b>                      | No adverse effects due to inhalation are expected.   |
| <b>Ingestion</b>                       | Health injuries are not known or expected under normal use. However, accidental ingestion of the content may cause discomfort.   |
| <b>Target organs</b>                   | Eyes.  |
| <b>Chronic effects</b>                 | Prolonged or repeated contact may dry skin and cause dermatitis.   |
| <b>Signs and symptoms</b>              | Symptoms include itching, burning, redness and tearing.  |
| <b>Potential environmental effects</b> | The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. |

## 3. Composition / Information on Ingredients

The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200.

|                             |  |
|-----------------------------|--|
| <b>Composition comments</b> | None present. This is not a hazardous material as defined in the OSHA Hazard Communication Standard. |
|-----------------------------|--|

## 4. First Aid Measures

|                             |  |
|-----------------------------|--|
| <b>First aid procedures</b> |  |
| <b>Eye contact</b>          | Flush thoroughly with water. If irritation occurs, get medical assistance.               |
| <b>Skin contact</b>         | Wash area with soap and water. Get medical attention if irritation develops or persists. |
| <b>Inhalation</b>           | Remove victim to fresh air. Get medical attention if symptoms persist.                   |

|                           |  |
|---------------------------|--|
| <b>Ingestion</b>          | Rinse mouth and drink plenty of water. Only induce vomiting at the instruction of medical personnel. Get medical attention if any discomfort occurs. |
| <b>Notes to physician</b> | Treat symptomatically.   |
| <b>General advice</b>     | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.                                     |

## 5. Fire Fighting Measures

|  |   |
|--|---|
| <b>Flammable properties</b>                                  | This product is not flammable. Will burn if involved in a fire.   |
| <b>Extinguishing media</b>                                   |   |
| <b>Suitable extinguishing media</b>                          | Water spray, foam, dry powder or carbon dioxide.  |
| <b>Unsuitable extinguishing media</b>                        | No restrictions known.  |
| <b>Protection of firefighters</b>                            |   |
| <b>Specific hazards arising from the chemical</b>            | During fire, gases hazardous to health may be formed.   |
| <b>Protective equipment and precautions for firefighters</b> | Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| <b>Fire fighting equipment/instructions</b>                  | Use standard firefighting procedures and consider the hazards of other involved materials. Cool material exposed to heat with water spray and remove it if no risk is involved.                                     |
| <b>Hazardous combustion products</b>                         | Carbon oxides. Silicon oxides. Formaldehyde.  |

## 6. Accidental Release Measures

|                                  |   |
|----------------------------------|---|
| <b>Personal precautions</b>      | Avoid inhalation of vapors and contact with skin and eyes. See Section 8 of the MSDS for Personal Protective Equipment. |
| <b>Environmental precautions</b> | Avoid discharge into drains, water courses or onto the ground.  |
| <b>Methods for containment</b>   | Prevent entry into waterways, sewer, basements or confined areas.   |
| <b>Methods for cleaning up</b>   | Collect and dispose of spillage as indicated in Section 13 of the MSDS.   |
| <b>Other information</b>         | Clean up in accordance with all applicable regulations.   |

## 7. Handling and Storage

|                 |   |
|-----------------|---|
| <b>Handling</b> | Provide adequate ventilation. Avoid inhalation of vapors and contact with skin and eyes. Observe good industrial hygiene practices. |
| <b>Storage</b>  | Store in closed original container in a dry place.  |

## 8. Exposure Controls / Personal Protection

|                                       |  |
|---------------------------------------|--|
| <b>Occupational exposure limits</b>   | No exposure limits noted for ingredient(s).  |
| <b>Engineering controls</b>           | Provide adequate ventilation.  |
| <b>Personal protective equipment</b>  |  |
| <b>Eye / face protection</b>          | Risk of contact: Wear approved safety glasses or goggles.  |
| <b>Skin protection</b>                | Where skin contact is likely, wear chemical impervious gloves. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.  |
| <b>Respiratory protection</b>         | If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134. If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection. |
| <b>General hygiene considerations</b> | Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.  |

## 9. Physical & Chemical Properties

|                       |              |
|-----------------------|--------------|
| <b>Appearance</b>     | Blue liquid. |
| <b>Physical state</b> | Liquid.      |
| <b>Form</b>           | Liquid.      |

|   |  |
|---|--|
| <b>Color</b>  | Blue. <b>Odor</b>                            |
|   | Odorless.                                    |
| <b>Odor threshold</b>                                 | Not available.                               |
| <b>pH</b>   | Not available.                               |
| <b>Vapor pressure</b>                                 | Not available.                               |
| <b>Vapor density</b>                                  | Not available.                               |
| <b>Boiling point</b>                                  | > 149 °F (> 65 °C)                           |
| <b>Melting point/Freezing point</b>                   | Not available.                               |
| <b>Solubility (water)</b>                             | Not available.                               |
| <b>Specific gravity</b>                               | 1  |
| <b>Flash point</b>                                    | > 212.0 °F (> 100.0 °C) Cleveland Closed Cup |
| <b>Flammability limits in air, upper, % by volume</b> | Not available.                               |
| <b>Flammability limits in air, lower, % by volume</b> | Not available.                               |
| <b>Auto-ignition temperature</b>                      | Not available.                               |
| <b>Viscosity</b>                                      | 5500 cSt                                     |
| <b>Other data</b>                                     |  |
| <b>Flammability (solid, gas)</b>                      | Not applicable.                              |

## 10. Chemical Stability & Reactivity Information

|   |   |
|---|---|
| <b>Chemical stability</b>                 | Stable at normal conditions.                                    |
| <b>Conditions to avoid</b>                | Flames and sparks. Contact with incompatible materials.         |
| <b>Incompatible materials</b>             | Strong oxidizing agents. Strong acids. Strong bases.            |
| <b>Hazardous decomposition products</b>   | During combustion: Carbon oxides. Silicon oxides. Formaldehyde. |
| <b>Possibility of hazardous reactions</b> | Hazardous polymerization does not occur.                        |

## 11. Toxicological Information

### Toxicological data

| Components   | Species   | Test Results   |
|--|---|----------------|
| 29H,31H-Phthalocyaninato(2-)-N29,N30,N31,N32 copper (CAS 147-14-8) |   |                |
| <b>Acute</b>   |   |                |
| <i>Oral</i>  | Rat   | 15000 mg/kg    |
| Polyalkyl siloxane (CAS 63148-62-9)                                |   |                |
| <b>Acute</b>   |   |                |
| <i>Dermal</i>  |   |                |
| LD50   | Rabbit  | >= 5000 mg/kg  |
| <i>Oral</i>  |   |                |
| LD50   | Rat   | >= 17000 mg/kg |
| <b>Sensitization</b>   | Not a skin sensitizer.  |                |
| <b>Local effects</b>   | Causes eye irritation.  |                |
| <b>Chronic effects</b>   | Prolonged or repeated contact may dry skin and cause dermatitis.                |                |
| <b>Carcinogenicity</b>   | This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. |                |
| <b>Epidemiology</b>  | Not available.  |                |
| <b>Mutagenicity</b>  | No data available.  |                |
| <b>Neurological effects</b>  | Not available.  |                |
| <b>Reproductive effects</b>  | Not available.  |                |

**Teratogenicity** Not available.  
**Symptoms and target organs** Symptoms include itching, burning, redness and tearing.

## 12. Ecological Information

### Ecotoxicological data

| Components                             | Species  | Test Results               |
|--|--|----------------------------|
| Polyalkyl siloxane (CAS 63148-62-9)    |  |                            |
| <b>Aquatic</b>                         |  |                            |
| Fish                                   | LC50 Channel catfish ( <i>Ictalurus punctatus</i> )  | 2.36 - 4.15 mg/l, 96 hours |
| <b>Ecotoxicity</b>                     | The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. |                            |
| <b>Environmental effects</b>           | An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  |                            |
| <b>Persistence and degradability</b>   | No data available.   |                            |
| <b>Bioaccumulation / Accumulation</b>  | No data available.   |                            |
| <b>Mobility in environmental media</b> | The product is insoluble in water.   |                            |

## 13. Disposal Considerations

**Waste codes** Not regulated.

**Disposal instructions** Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal. Dispose of this material and its container at hazardous or special waste collection point. Do not allow runoff to sewer, waterway or ground.

**Waste from residues / unused products** Dispose of in accordance with local regulations.

**Contaminated packaging** Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## 14. Transport Information

### DOT

Not regulated as a hazardous material by DOT.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

### TDG

Not regulated as dangerous goods.

## 15. Regulatory Information

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

### CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)

None

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### Hazard categories

Immediate Hazard - Yes  
Delayed Hazard - No  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

#### Section 302 extremely hazardous substance (40 CFR 355, Appendix A)

No

|  |   |
|--|---|
| <b>SARA 311/312 Hazardous chemical</b>                           | Yes   |
| <b>Drug Enforcement Administration (DEA) (21 CFR 1308.11-15)</b> | Not controlled  |
| <b>Canadian regulations</b>                                      | This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations. |
| <b>WHMIS status</b>  | Controlled  |
| <b>WHMIS classification</b>                                      | D2B - Other Toxic Effects-TOXIC   |
| <b>WHMIS labeling</b>  |   |



#### 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 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)  | 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 this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

**State regulations** This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

**US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance**

Not listed.

**US - New Jersey RTK - Substances: Listed substance**

29H,31H-Phthalocyaninato(2-)-N29,N30,N31,N32 copper Listed.  
(CAS 147-14-8)

**US. Massachusetts RTK - Substance List**

Not regulated.

**US. New Jersey Worker and Community Right-to-Know Act**

Not regulated.

**US. Pennsylvania RTK - Hazardous Substances**

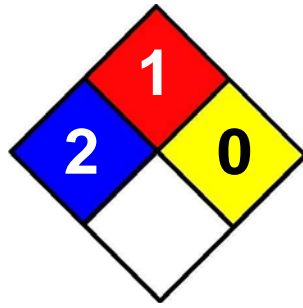
Not regulated.

## 16. Other Information

**Further information** HMIS® is a registered trade and service mark of the NPCA.  
B - Safety Glasses, Gloves

**HMIS® ratings**  
Health: 2  
Flammability: 1  
Physical hazard: 0  
Personal protection: B

**NFPA Ratings**



**Disclaimer**

The information in the sheet was written based on the best knowledge and experience currently available.