



## Cover Sheet for Safety Data Sheet

### 1. Identification of the Substance/Preparation and of the Company/Undertaking

|                   |  |
|-------------------|--|
| Product Name      | J-B Weld Wood Restore Repair Putty   |
| Overseas Supplier | J-B WELD COMPANY,LLC   |
| NZ Distributor    | Griffiths Equipment Ltd<br>22-24 Olive Road<br>Penrose<br>Auckland<br>Tel 09 5254575<br>Fax 09 5256817<br>Email <a href="mailto:sales@griffiths.co.nz">sales@griffiths.co.nz</a> |
| Emergency         | In an emergency contact the NZ Poisons Centre 0800 POISON (0800 764 7667).   |

### 2. Hazards Identification

This product is Hazardous according to the Hazardous Substances (Classification) Regulations 2001.

- 3.1C Flammable Liquid Medium Hazard
- 6.1E (inhalation) Acutely Toxic
- 6.3B Substances that are mildly irritating to skin
- 6.4A Substances that are irritating to the eye



HSNO Approval Number HSR002621. N.O.S. (Flammable) Group Standard 2006

4 May 2016

# SAFETY DATA SHEET

Issuing Date 23-June 2016

Revision Date 23-June 2016

Revision Number 1

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

Product SDS Name                      Wood Restore – Wood Filler Repair Putty

### J-B Weld FG SKU Part Numbers Covered

40003, 40004

### J-B Weld Product Names Covered

J-B Weld Wood Restore Repair Putty

### J-B Weld Product Type

Epoxy Putty

### Recommended use of the chemical and restrictions on use

Recommended Use                      Household Wood Repairs & Filler

Uses advised against                      No information available

### Details of the supplier of the safety data sheet

Supplier Name                              J-B WELD COMPANY,LLC  
Supplier Address                            1130 COMO ST  
    SULPHUR SPRINGS, TX 75482  
    USA

**Emergency Telephone Numbers**      Transportation Emergencies: Chemtrec (24 hour transportation emergency response info):  
800-424-9300 or 703-527-3887


Poison/Medical Emergencies: Poison Control Centers (24 hour emergency poison / medical response info): 800-222-1222

Supplier Email                                [info@jbweld.com](mailto:info@jbweld.com)

Supplier Phone Number                      903-885-7696



## 2. HAZARDS IDENTIFICATION

|                                       |   |             |
|---------------------------------------|---|-------------|
| <b>Physical Hazards</b>               | Flammable liquids   | Category 3  |
| <b>Health Hazards</b>                 | Acute toxicity, oral  | Category 4  |
|                                       | Acute toxicity, inhalation  | Category 4  |
|                                       | Skin corrosion/irritation   | Category 2  |
|                                       | Serious eye damage/eye irritation   | Category 2A |
|                                       | Germ cell mutagenicity  | Category 2  |
|                                       | Carcinogenicity   | Category 1A |
|                                       | Reproductive toxicity   | Category 1  |
|                                       | Specific target organ toxicity, repeated exposure   | Category 1  |
| <b>Environmental Hazards</b>          | Hazardous to the aquatic environment, acute hazard  | Category 2  |
|                                       | Hazardous to the aquatic environment, long-term hazard  | Category 2  |
| <b>OSHA defined hazards</b>           | Not classified.   |             |
| <b>Label elements</b>                 |   |             |
| <b>Signal word</b>                    | Danger  |             |
| <b>Hazard statement</b>               | Flammable liquid and vapor. Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. Harmful if inhaled. Suspected of causing genetic defects. May cause cancer. May damage fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.  |             |
| <b><u>Precautionary statement</u></b> |   |             |
| <b>Prevention</b>                     | Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/eye protection/face protection. |             |
| <b>Response</b>                       | If swallowed: Call a poison center/doctor if you feel unwell. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Take off contaminated clothing and wash before reuse. Collect spillage. In case of fire: Use appropriate media to extinguish.  |             |
| <b>Storage</b>                        | Store in a well-ventilated place.Keep cool. Store locked up.  |             |

|  |   |
|--|---|
| <b>Disposal</b>                                  | Dispose of contents/container in accordance with local/regional/national/international regulations.   |
| <b>Hazard(s) not otherwise classified (HNOC)</b> | Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.   |
| <b>Supplemental information</b>                  | 72.67% of the mixture consists of component(s) of unknown acute oral toxicity. 78.06% of the mixture consists of component(s) of unknown acute inhalation toxicity. 74% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 74% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment. |

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Mixtures

| Chemical Name                            | Common name and synonyms | CAS number | %         |
|--|--------------------------|------------|-----------|
| Talc                                     |                          | 14807-96-6 | 20 to <30 |
| Styrene, monomer                         |                          | 100-42-5   | 10 to <20 |
| Calcium carbonate                        |                          | 1317-65-3  | 5 to <10  |
| Silicon dioxide                          |                          | 7631-86-9  | 1 to <5   |
| Sodium silicate                          |                          | 1344-09-8  | 1 to <5   |
| Hydroquinone                             |                          | 123-31-9   | 0.1 to <1 |
| Sodium dioxide                           |                          | 14808-60-7 | 0.1 to <1 |
| Sodium metaborate                        |                          | 7775-19-1  | 0.1 to <1 |
| Titanium dioxide                         |                          | 13463-67-7 | 0.1 to <1 |
| Other components below reportable levels |                          |            | 30 to <40 |

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a POISON CENTER or doctor/physician if you feel unwell.       |
| <b>Skin contact</b> | Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.                     |
| <b>Eye contact</b>  | Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. |
| <b>Ingestion</b>    | Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.   |



|   |  |
|---|--|
| <b>Most important symptoms/effects, acute and delayed</b>                     | Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.   |
| <b>Indication of immediate medical attention and special treatment needed</b> | Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.  |
| <b>General Information</b>  | Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse. |

## 5. FIREFIGHTING MEASURES

|  |  |
|--|--|
| <b>Suitable extinguishing media</b>                                  | Water fog. Carbon dioxide (CO <sub>2</sub> ). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.   |
| <b>Unsuitable extinguishing media</b>                                | Do not use water jet as an extinguisher, as this will spread the fire.   |
| <b>Specific hazards arising from the chemical</b>                    | Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed. |
| <b>Special protective equipment and precautions for firefighters</b> | Self-contained breathing apparatus and full protective clothing must be worn in case of fire.  |
| <b>Fire fighting equipment/instructions</b>                          | In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.   |
| <b>Specific methods</b>  | Use standard firefighting procedures and consider the hazards of other involved materials.   |
| <b>General fire hazards</b>  | Flammable liquid and vapor.  |



## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

### Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. Prevent product from entering drains.

**Large Spills:** Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

**Small Spills:** Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

### Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of



heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist or vapor. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

For additional information on equipment bonding and grounding, refer to the Canadian Electrical Code in Canada, (CSA C22.1), or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" or National Fire Protection Association (NFPA) 77, "Recommended Practice on Static Electricity" or National Fire Protection Association (NFPA) 70, "National Electrical Code".

**Conditions for safe storage, including any incompatibilities**

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Occupational exposure limits

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFT 1910.1000)**

| <b>Components</b>                 | <b>Type</b> | <b>Value</b>        | <b>Form</b>                         |
|-----------------------------------|-------------|---------------------|-------------------------------------|
| Calcium carbonate (CAS 1317-65-3) | PEL         | 5 mg/m3<br>15 mg/m3 | Respirable fraction.<br>Total dust. |
| Hydroquinone (CAS 123-31-9)       | PEL         | 2 mg/m3             |                                     |
| Titanium dioxide (CAS 13463-67-7) | PEL         | 15 mg/m3            | Total dust.                         |



**US. OSHA Table Z-2 (29 CFT 1910.1000)**

| <b>Components</b>               | <b>Type</b> | <b>Value</b> | <b>Form</b> |
|---------------------------------|-------------|--------------|-------------|
| Styrene, monomer (CAS 100-42-5) | Ceiling     | 200 ppm      |             |
|                                 | TWA         | 100 ppm      |             |

**US. OSHA Table Z-3 (29 CFT 1910.1000)**

| <b>Components</b>                | <b>Type</b> | <b>Value</b> | <b>Form</b> |
|----------------------------------|-------------|--------------|-------------|
| Silicon dioxide (CAS 7631-86-9)  | TWA         | 0.8 mg/m3    |             |
| Silicon dioxide (CAS 14808-60-7) | TWA         | 0.3 mg/m3    | Total dust. |
|                                  |             | 0.1 mg/m3    | Respirable  |
| Silicon dioxide (CAS 7631-86-9)  | TWA         | 20 mppcf     |             |
| Silicon dioxide (CAS 14808-60-7) | TWA         | 2.4 mppcf    | Respirable. |
| Talc (CAS 14807-96-6)            | TWA         | 0.3 mg/m3    | Total dust. |
|                                  |             | 0.1 mg/m3    | Respirable. |
|                                  |             | 20 mppcf     |             |
|                                  |             | 2.4 mppcf    | Respirable. |

**US ACGIH Threshold Limit Values**

| <b>Components</b>                 | <b>Type</b> | <b>Value</b> | <b>Form</b>          |
|-----------------------------------|-------------|--------------|----------------------|
| Hydroquinone (CAS 123-31-9)       | TWA         | 1 mg/m3      |                      |
| Silicon dioxide (CAS 14808-60-7)  | TWA         | 0.025 mg/m3  | Respirable fraction. |
| Styrene, monomer (CAS 100-42-5)   | STEL        | 40 ppm       |                      |
|                                   | TWA         | 20 ppm       |                      |
| Talc (CAS 14807-96-6)             | TWA         | 2 mg/m3      | Respirable fraction. |
| Titanium dioxide (CAS 13463-67-7) | TWA         | 10 mg/m3     |                      |

**US. NIOSH: Pocket Guide to Chemical Hazards**

| <b>Components</b>                 | <b>Type</b> | <b>Value</b> | <b>Form</b>      |
|-----------------------------------|-------------|--------------|------------------|
| Calcium carbonate (CAS 1317-65-3) | TWA         | 5 mg/m3      | Respirable.      |
|                                   |             | 10 mg/m3     | Total            |
| Hydroquinone (CAS 123-31-9)       | Ceiling     | 2 mg/m3      |                  |
| Silicon dioxide (CAS 7631-86-9)   | TWA         | 6 mg/m3      |                  |
| Silicon dioxide (CAS 14808-60-7)  | TWA         | 0.05 mg/m3   | Respirable dust. |
| Styrene, monomer (CAS 100-42-5)   | STEL        | 425 mg/m3    |                  |
|                                   |             | 100 ppm      |                  |
|                                   |             | 215 mg/m3    |                  |
| Talc (CAS 14807-96-6)             | TWA         | 50 ppm       |                  |
|                                   |             | 2 mg/m3      | Respirable.      |





## Biological limit values

### ACGIH Biological Exposure Indices

| Components                      | Value    | Determinant                             | Specimen            | Sampling Time |
|---------------------------------|----------|---|---------------------|---------------|
| Styrene, monomer (CAS 100-42-5) | 400 mg/g | Mandelic acid plus phenylglyoxylic acid | Creatinine in urine | *             |
|                                 | 0.2 mg/l | Styrene                                 | Venous blood        | *             |

\*-For sampling details, please see the source document.

## Exposure guidelines

### US – California OELs: Skin designation

Styrene, monomer (CAS 100-42-5) Can be absorbed through the skin.

### US – Minnesota Haz Subs: Skin designation applies

Styrene, monomer (CAS 100-42-5) Skin designation applies.

**Appropriate engineering controls** Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

## Individual protection measures, such as personal protective equipment

|                                       |  |
|---------------------------------------|--|
| <b>Eye/face protection</b>            | Wear safety glasses with side shields (or goggles).  |
| <b>Skin protection</b>                |  |
| <b>Hand protection</b>                | Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.  |
| <b>Other</b>                          | Wear appropriate chemical resistant clothing.  |
| <b>Respiratory</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.  |
| <b>Thermal</b>                        | Wear appropriate thermal protective clothing, when necessary.  |
| <b>General hygiene considerations</b> | Observe any medical surveillance requirements. When using do not smoke. Keep away from food and drink. 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 AND CHEMICAL PROPERTIES

|   |                             |
|---|-----------------------------|
| Appearance                              |                             |
| Physical state                          | Liquid                      |
| Form                                    | Liquid. Paste               |
| Color                                   | Beige.                      |
| Odor                                    | Solvent.                    |
| Odor threshold                          | Not available               |
| pH                                      | Not available               |
| Melting point/Freezing point            | -23.8 °F (-31 °C) estimated |
| Initial boiling point and boiling range | 293 °F (145 °C) estimated   |
| Flash point                             | 93.9 °F (34.4 °C) estimated |
| Evaporation rate                        | Not available               |
| Flammability (solid, gas)               | Not applicable.             |
| Flammability limit – lower (%)          | 1.1% estimated              |
| Flammability limit – upper (%)          | 6.1% estimated              |
| Explosive limit – lower (%)             | Not available.              |
| Explosive limit – upper (%)             | Not available.              |
| Vapor pressure                          | 3.22 hPa estimated          |
| Vapor density                           | Not available               |
| Relative density                        | Not available               |
| Solubility (ies)                        |                             |
| Solubility (water)                      | Not available               |
| Partition coefficient (n-octanol/water) | Not available               |
| Auto-ignition temperature               | 914 °F (490 °C) estimated   |
| Decomposition temperature               | Not available.              |
| Viscosity                               | Not available.              |
| Other information                       |                             |
| Density                                 | 9.60 lbs/gal                |
| Explosive properties                    | Not explosive.              |
| Flammability class                      | Flammable IC estimated      |
| Oxidizing properties                    | Not oxidizing               |
| Percent volatile                        | 18.44% estimated            |
| Specific gravity                        | 1.15                        |
| VOC                                     | 18.19% estimated            |

## 10. STABILITY AND REACTIVITY

### Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.



|   |  |
|---|--|
| <b>Chemical stability</b>                 | Material is stable under normal conditions   |
| <b>Possibility of hazardous reactions</b> | Hazardous polymerization does not occur.   |
| <b>Conditions to avoid</b>                | Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials. |
| <b>Incompatible materials</b>             | Strong acids. Aluminum. Peroxides. Fluorine.   |
| <b>Hazardous decomposition products</b>   | No hazardous decomposition products are known.   |

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | Harmful if inhaled. May cause damage to organs through prolonged or repeated exposure by inhalation. |
| <b>Skin contact</b> | Causes skin irritation.  |
| <b>Eye contact</b>  | Causes serious eye irritation.   |
| <b>Ingestion</b>    | Harmful if swallowed.  |

**Symptoms related to the physical, chemical and toxicological characteristics.** Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

### Information on toxicological effects

**Acute toxicity** Harmful if inhaled. Harmful if swallowed.

| Components                  | Species    | Test Results |
|-----------------------------|------------|--------------|
| Hydroquinone (CAS 123-31-9) |            |              |
| <b>Acute</b>                |            |              |
| <b>Dermal</b>               |            |              |
| LD50                        | Guinea pig | > 1000 mg/kg |
|                             | Rat        | > 900 mg/kg  |



|                                   |            |                   |
|-----------------------------------|------------|-------------------|
| <b>Oral</b>                       |            |                   |
| LD50                              | Guinea pig | 550 mg/kg         |
|                                   | Mouse      | 245 mg/kg         |
|                                   | Rabbit     | 540 mg/kg         |
|                                   | Rat        | 320 mg/kg         |
| Silicone dioxide (CAS 7631-86-9)  |            |                   |
| <b>Acute</b>                      |            |                   |
| <b>Oral</b>                       |            |                   |
| LD50                              | Mouse      | > 15000 mg/kg     |
|                                   | Rat        | > 22500 mg/kg     |
| Sodium metaborate (CAS 7775-19-1) |            |                   |
| <b>Acute</b>                      |            |                   |
| <b>Oral</b>                       |            |                   |
| LD50                              | Rat        | 2330 mg/kg        |
| Sodium silicate (CAS 1344-09-8)   |            |                   |
| <b>Acute</b>                      |            |                   |
| <b>Oral</b>                       |            |                   |
| LD 50                             | Mouse      | 1100 mg/kg        |
|                                   | Rat        | 1.1 g/kg          |
| Styrene, monomer (CAS 100-42-5)   |            |                   |
| <b>Acute</b>                      |            |                   |
| <b>Inhalation</b>                 |            |                   |
| LC50                              | Mouse      | 4940 ppm, 2 Hours |
|                                   | Rate       | 2770 ppm, 4 Hours |
|                                   |            | 24 mg/l, 4 Hours  |
| <b>Oral</b>                       |            |                   |
| LD50                              | Mouse      | 316 mg/kg         |
|                                   | Rate       | 1 g/kg            |

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

|  |   |
|--|---|
| <b>Skin corrosion/irritation</b>         | Causes skin irritation.                                   |
| <b>Serious eye damage/eye irritation</b> | Causes serious eye irritation.                            |
| <b>Respiratory or skin sensitization</b> |   |
| <b>ACGIH sensitization</b>               |   |
| Hydroquinone (CAS 123-31-9)              | Dermal sensitization                                      |
| <b>Respiratory sensitization</b>         | Not a respiratory sensitizer                              |
| <b>Skin sensitization</b>                | This product is not expected to cause skin sensitization. |
| <b>Germ cell mutagenicity</b>            | Suspected of causing genetic defects.                     |



**Carcinogenicity** May cause cancer.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

|                                   |   |
|-----------------------------------|---|
| Hydroquinone (CAS 123-31-9)       | 3 Not classifiable as to carcinogenicity to humans. |
| Silicon dioxide (CAS 14808-60-7)  | 1 Carcinogenic to humans.                           |
| Silicon dioxide (CAS 7631-86-9)   | 3 Non classifiable as to carcinogenicity to humans. |
| Styrene, monomer (CAS 100-42-5)   | 2B Possibly carcinogenic to humans.                 |
| Titanium dioxide (CAS 13463-67-7) | 2B Possibly carcinogenic to humans.                 |

**OSHA Specifically Regulated Substances (29 CFT 1910.1001-1050)** Not regulated.

**US. National Toxicology Program (NTP) Report on Carcinogens**

|                                  |  |
|----------------------------------|--|
| Silicon dioxide (CAS 14808-60-7) | Known to be Human Carcinogen.                    |
| Styrene, monomer (CAS 100-42-5)  | Reasonably Anticipated to be a Human Carcinogen. |

**Reproductive toxicity** May damage fertility or the unborn child.

**Specific target organ toxicity – single exposure** Not classified.

**Specific target organ toxicity – repeated exposure** Causes damage to organs through prolonged or repeated exposure.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

## 12. ECOLOGICAL INFORMATION

**Exotoxicity** Toxic to aquatic life with long lasting effects.

| Components                      |      | Species  | Test Results               |
|---------------------------------|------|--|----------------------------|
| Hydroquinone (CAS 123-31-9)     |      |  |                            |
| <b>Aquatic</b>                  |      |  |                            |
| Crustacea                       | EC50 | Water flea ( <i>Daphnia magna</i> )                              | 0.12 – 0.15 mg/l, 48 hours |
| Fish                            | LC50 | Rainbow trout, donaldson trout<br>( <i>Oncorhynchus mykiss</i> ) | 0.044 mg/l, 96 hours       |
| Sodium silicate (CAS 1344-09-8) |      |  |                            |
| <b>Aquatic</b>                  |      |  |                            |
| Crustacea                       | EC50 | Water flea ( <i>Ceriodaphnia dubia</i> )                         | 0.28 – 0.57 mg/l, 48 hours |
| Fish                            | LC50 | Western mosquitofish<br>( <i>Gambusia affinis</i> )              | 1800 mg/l, 96 hours        |



Styrene, monomer (CAS 100-42-5)

**Aquatic**

|           |      |   |                          |
|-----------|------|---|--------------------------|
| Crustacea | EC50 | Water flea ( <i>Daphnia magna</i> )                   | 3.3 – 7.4 mg/l, 48 hours |
| Fish      | LC50 | Sheepshead minnow<br>( <i>Cyprinodon variegatus</i> ) | 5.1-16 mg/l, 96 hours    |

Titanium dioxide (CAS 13463-67-7)

**Aquatic**

|           |      |  |                       |
|-----------|------|--|-----------------------|
| Crustacea | EC50 | Water flea ( <i>Daphnia magna</i> )        | > 1000 mg/l, 48 hours |
| Fish      | LC50 | Mummichog ( <i>Fundulus heteroclitus</i> ) | > 1000 mg/l, 96 hours |

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

**Persistence and degradability** No data is available on the degradability of this product.

**Bioaccumulative potential**

**Partition coefficient n-octanol/water (log Kow)**

Hydroquinone 0.59

Styrene, monomer 2.95

**Mobility in soil** No data available.

**Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

### 13. DISPOSAL CONSIDERATIONS

|  |  |
|--|--|
| <b>Disposal instructions</b>                 | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations. |
| <b>Local disposal regulations</b>            | Dispose in accordance with all applicable regulations.   |
| <b>Hazardous waste code</b>                  | The waste code should be assigned in discussion between the user, the producer and the waste disposal company.   |
| <b>Waste from residues / unused products</b> | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).   |





**Contaminated packaging**

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

|                                  |
|----------------------------------|
| <b>14. TRANSPORT INFORMATION</b> |
|----------------------------------|

|                              |   |
|------------------------------|---|
| <b>DOT</b>                   |   |
| UN number                    | UN1866  |
| UN proper shipping name      | UN1866, Resin Solution  |
| Transport hazard class(es)   |   |
| Class                        | 3   |
| Subsidiary risk              | -   |
| Label(s)                     | 3   |
| Packing group                | III   |
| Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. |
| Special provisions           | B1, B52, IB3, T4, TP1, TP29   |
| Packaging exceptions         | 150   |
| Packaging non bulk           | 203   |
| Packaging bulk               | 242   |
| <b>IATA</b>                  |   |
| UN number                    | UN1866  |
| UN proper shipping name      | Resin Solution  |
| Transport hazard class(es)   |   |
| Class                        | 3   |
| Subsidiary risk              | -   |
| Packing group                | III   |
| Environmental hazards        | No.   |
| ERG Code                     | 3L  |
| Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. |
| <b>Other information</b>     |   |
| Passenger and cargo aircraft | Allowed with restrictions.  |
| Cargo aircraft only          | Allowed with restrictions.  |
| <b>IMDG</b>                  |   |
| UN number                    | UN1866  |
| UN proper shipping name      | Resin Solution  |
| Transport hazard class(es)   |   |
| Class                        | 3   |
| Subsidiary risk              | -   |
| Packing group                | III   |



|   |   |
|---|---|
| <b>Environmental hazards</b>  |   |
| <b>Marine pollutant</b>   | No.   |
| <b>EmS</b>  | F-E, <u>S-E</u>   |
| <b>Special precautions for user</b>   | Read safety instructions, SDS and emergency procedures before handling.           |
| <b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b> | Not established   |
| <b>DOT</b>  |  |
| <b>IATA; IMDG</b>   |  |

## 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)**  
**CERCLA Hazardous substance List (40 CFT 302.4)**

Not regulated  
Hydroquinone (CAS 123-31-9)              Listed.  
Styrene, monomer (CAS 100-42-5)        Listed.  
Hydroquinone (CAS 123-31-9)            100 LBS  
Not regulated

**SARA 304 Emergency release notification**  
**OSHA Specifically Regulated Substances (29 CFT 1910.1001-1050)**

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

**Hazard Categories**                      Immediate Hazard – Yes  
Delayed Hazard – Yes  
Fire Hazard – Yes  
Pressure Hazard – No  
Reactivity Hazard - No

**SARA 302 Extremely hazardous substance**

| Chemical name | CAS number | Reportable quantity | Threshold planning quantity | Threshold planning quantity, lower value | Threshold planning quantity, upper value |
|---------------|------------|---------------------|-----------------------------|--|--|
| Hydroquinone  | 123.31.9   | 100                 |                             | 500 lbs                                  | 10000 lbs                                |





SARA 311/312 Hazardous chemical

No

SARA 313 (TRI reporting)

| Chemical name    | CAS number | % by wt.  |
|------------------|------------|-----------|
| Styrene, monomer | 100-42-5   | 10 to <20 |
| Hydroquinone     | 123-31-9   | 0.1 to <1 |

**Other federal regulations**

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

Hydroquinone (CAS 123-31-9)

Styrene, monomer (CAS 100-42-5)

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFT 68.130)**

Not regulated

**Safe Drinking Water Act (SDWA)**

Not regulated

**FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

Styrene, monomer (CAS 100-42-5)

Other Flavoring Substances with OSHA PEL's

**US state regulations**

**US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)**

Not listed

**US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, Tit. 22, 69502.3, subd. (a))**

Silicon dioxide (CAS 14808-60-7)

Styrene, monomer (CAS 100-42-5)

Talc (CAS 14807-96-6)

Titanium dioxide (CAS 13463-67-7)

**US. Massachusetts RTK – Substance List**

Calcium carbonate (CAS 1317-65-3)

Hydroquinone (CAS 123-31-9)

Silicon dioxide (CAS 14808-60-7)

Silicon dioxide (CAS 7631-86-9)

Styrene, monomer (CAS 100-42-5)

Talc (CAS 14807-96-6)

Titanium dioxide (CAS 13463-67-7)

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

Calcium carbonate (CAS 1317-65-3)

Hydroquinone (CAS 123-31-9)

Silicon dioxide (CAS 14808-60-7)

Silicon dioxide (CAS 7631-86-9)

Sodium metaborate (CAS 7775-19-1)

Styrene, monomer (CAS 100-42-5)

Talc (CAS 14807-96-6)

Titanium dioxide (CAS 13463-67-7)

**US. Pennsylvania Worker and Community Right-to-know Law**

Calcium carbonate (CAS 1317-65-3)

Hydroquinone (CAS 123-31-9)

Silicon dioxide (14808-60-7)

Silicon dioxide (CAS 7631-86-9)

Styrene, monomer (CAS 100-42-5)



Talc (CAS 14807-96-6)  
Titanium dioxide (CAS 13463-67-7)

**US. Rhode Island RTK**

Hydroquinone (CAS 123-31-9)  
Styrene, monomer (CAS 100-42-5)

**US. California Proposition 65**      WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

**US – California Proposition 65 – CRT: Listed date/Carcinogenic substance**

Silicon dioxide (CAS 14808-60-7)      Listed: October 1, 1988

Titanium dioxide (CAS 13463-67-7)      Listed: September 2, 2011

**US – California Proposition 65 – CRT: Listed date/Carcinogenic substance**

Methanol (CAS 67-56-1)      Listed: March 16, 2012

**International Inventories**

| <b>Country(s) or region</b> | <b>Inventory name</b>  | <b>On inventory (yes/no)*</b> |
|-----------------------------|--|-------------------------------|
| Australia                   | Australian Inventory of Chemical Substances (AICS)                     | Yes                           |
| Canada                      | Domestic Substances List (DSL)   | Yes                           |
| Canada                      | Non-Domestic Substances List (NDSL)                                    | Yes                           |
| China                       | Inventory of Existing Chemical Substances in China (IECSC)             | Yes                           |
| Europe                      | European Inventory of Existing Commercial Chemical Substances (EINECS) | 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).

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).

**16. OTHER INFORMATION**

**HMIS® ratings**

Health: 2  
Flammability: 3  
Physical hazard: 0

**NFPA ratings**

Health: 2  
Flammability: 3  
Instability: 0



**Notice to reader**

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