# Material Safety Data Sheet

Pinnacle Presoak

## 1. Product and company identification

| | | |
|---|---|---|
| **Product name** | : | Pinnacle Presoak |
| **Supplier** | : | Betco Corporation<br>1001 Brown Avenue<br>Toledo, Ohio 43607<br>(800) 333-2156 |
| **Manufacturer** | : | Betco Corporation<br>1001 Brown Avenue<br>Toledo, Ohio 43607 |
| **Code** | : | 247 |
| **MSDS #** | : | 247 |
| **Validation date** | : | 5/21/2012. |
| **Print date** | : | 5/21/2012. |
| **In case of emergency** | : | Chemtrec (800) 424-9300 |
| **Product type** | : | Solid. |

## 2. Hazards identification

**Emergency overview**

| | | |
|---|---|---|
| **Physical state** | : | Solid. |
| **Color** | : | Blue. |
| **Odor** | : | Characteristic. |
| **Signal word** | : | WARNING! |
| **Hazard statements** | : | CAUSES EYE AND SKIN IRRITATION. MAY BE HARMFUL IF SWALLOWED. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA. |
| **Precautionary measures** | : | Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Do not ingest. Do not eat, drink or smoke when using this product. Avoid contact with eyes, skin and clothing. Use personal protective equipment as required. Wash thoroughly after handling. |
| **OSHA/HCS status** | : | This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). |
| **Routes of entry** | : | Dermal contact. Eye contact. |

**Potential acute health effects**

| | | |
|---|---|---|
| **Inhalation** | : | No known significant effects or critical hazards. |
| **Ingestion** | : | Harmful if swallowed. |
| **Skin** | : | Irritating to skin. |
| **Eyes** | : | Severely irritating to eyes. Risk of serious damage to eyes. |

**Potential chronic health effects**

| | | |
|---|---|---|
| **Chronic effects** | : | Contains material that may cause target organ damage, based on animal data. |
| **Carcinogenicity** | : | Contains material which can cause cancer. Risk of cancer depends on duration and level of exposure. |
| **Mutagenicity** | : | No known significant effects or critical hazards. |
| **Teratogenicity** | : | No known significant effects or critical hazards. |
| **Developmental effects** | : | No known significant effects or critical hazards. |
| **Fertility effects** | : | No known significant effects or critical hazards. |
| **Target organs** | : | Contains material which may cause damage to the following organs: liver, cardiovascular system, upper respiratory tract, skin, eyes, stomach. |

## 2. Hazards identification

**Medical conditions aggravated by over-exposure** : Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

**See toxicological information (Section 11)**

## 3. Composition/information on ingredients

| Name | CAS number | % |
|---|---|---|
| pentasodium triphosphate | 7758-29-4 | 20 - 40 |
| sodium chloride | 7647-14-5 | 5 - 10 |
| sodium carbonate | 497-19-8 | 1 - 5 |
| Agral 90 | 9016-45-9 | 1 - 5 |
| tetrasodium pyrophosphate | 7722-88-5 | 1 - 5 |
| Sodium poly acrylate | 9003-04-7 | 1 - 5 |
| Sodium lauryl ether sulfate | 9004-82-4 | 1 - 5 |
| ETHYL ALCOHOL | 64-17-5 | 0.1 - 1 |

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

## 4. First aid measures

**Eye contact** Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately. In case of contact with eyes, rinse immediately with plenty of water.

**Skin contact** In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

**Inhalation** Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

**Ingestion** Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

**Protection of first-aiders** No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

**Notes to physician** : No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

## 5. Fire-fighting measures

**Flammability of the product** : No specific fire or explosion hazard.

**Extinguishing media**

**Suitable** : Use an extinguishing agent suitable for the surrounding fire.

**Not suitable** : None known.

**Special exposure hazards** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

## 5. Fire-fighting measures

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
sulfur oxides
phosphorus oxides
halogenated compounds
metal oxide/oxides

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6. Accidental release measures

**Personal precautions** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

**Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

**Methods for cleaning up**

**Small spill** : Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

**Large spill** : Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

## 7. Handling and storage

**Handling** : Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Avoid exposure - obtain special instructions before use. Do not get in eyes or on skin or clothing. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Storage** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## 8. Exposure controls/personal protection

| Ingredient | Exposure limits |
|---|---|

# 8. Exposure controls/personal protection

| | |
|---|---|
| tetrasodium pyrophosphate | **OSHA PEL 1989 (United States, 3/1989).**<br>TWA: 5 mg/m³ 8 hour(s).<br>**NIOSH REL (United States, 6/2009).**<br>TWA: 5 mg/m³ 10 hour(s). |
| ETHYL ALCOHOL | **ACGIH TLV (United States, 2/2010).**<br>STEL: 1000 ppm 15 minute(s).<br>**OSHA PEL 1989 (United States, 3/1989).**<br>TWA: 1000 ppm 8 hour(s).<br>TWA: 1900 mg/m³ 8 hour(s).<br>**NIOSH REL (United States, 6/2009).**<br>TWA: 1000 ppm 10 hour(s).<br>TWA: 1900 mg/m³ 10 hour(s).<br>**OSHA PEL (United States, 6/2010).**<br>TWA: 1000 ppm 8 hour(s).<br>TWA: 1900 mg/m³ 8 hour(s). |

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

**Engineering measures** : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Personal protection**

**Respiratory** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**Hands** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. <1 hours (breakthrough time): disposable vinyl

**Eyes** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. Recommended: safety glasses

**Skin** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**Personal protective equipment (Pictograms)** :

# 9. Physical and chemical properties

**Physical state** : Solid.
**Flash point** : Closed cup: Not applicable.
**Color** : Blue.
**Odor** : Characteristic.
**Relative density** : 1.29868
**Solubility** : Easily soluble in the following materials: cold water and hot water.

# 10. Stability and reactivity

**Chemical stability** : The product is stable.
**Conditions to avoid** : No specific data.
**Incompatible materials** : No specific data.
**Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.
**Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.

# 11. Toxicological information

## Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|---|---|---|---|---|
| pentasodium triphosphate | LD50 Oral | Rat | 3120 mg/kg | - |
| sodium carbonate | LD50 Oral | Rat | 4090 mg/kg | - |
| sodium chloride | LD50 Oral | Rat | 3000 mg/kg | - |
| Sodium poly acrylate | LD50 Oral | Rat | >40 g/kg | - |
| tetrasodium pyrophosphate | LD50 Oral | Rat | 4 g/kg | - |
| Sodium lauryl ether sulfate | LD50 Oral | Rat | 1600 mg/kg | - |
| ETHYL ALCOHOL | LC50 Inhalation Dusts and mists | Rat | 124700 mg/m3 | 4 hours |
| | LD50 Oral | Rat | >1000 mg/kg | - |

**Conclusion/Summary** : Not available.

## Chronic toxicity

**Conclusion/Summary** : Not available.

## Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|---|---|---|---|---|---|
| pentasodium triphosphate | Skin - Moderate irritant | Rabbit | - | 24 hours 500 milligrams | - |
| sodium carbonate | Eyes - Mild irritant | Rabbit | - | 0.5 minutes 100 milligrams | - |
| | Eyes - Moderate irritant | Rabbit | - | 24 hours 100 milligrams | - |
| | Eyes - Severe irritant | Rabbit | - | 50 milligrams | - |
| | Skin - Mild irritant | Rabbit | - | 24 hours 500 milligrams | - |
| sodium chloride | Eyes - Moderate irritant | Rabbit | - | 24 hours 100 milligrams | - |
| | Eyes - Moderate irritant | Rabbit | - | 10 milligrams | - |
| | Skin - Mild irritant | Rabbit | - | 24 hours 500 milligrams | - |
| Agral 90 | Eyes - Severe irritant | Guinea pig | - | 20 milligrams | - |
| | Eyes - Severe irritant | Mouse | - | 20 milligrams | - |
| | Eyes - Severe irritant | Rabbit | - | 20 milligrams | - |
| | Skin - Mild irritant | Human | - | 72 hours 15 milligrams | - |

# 11. Toxicological information

| | | | | | |
|---|---|---|---|---|---|
| | Skin - Mild irritant | Rabbit | - | Intermittent 500 milligrams | - |
| Sodium poly acrylate | Eyes - Moderate irritant | Rabbit | - | 2 milligrams | - |
| Sodium lauryl ether sulfate | Eyes - Moderate irritant | Rabbit | - | 24 hours 20 milligrams | - |
| | Eyes - Severe irritant | Rabbit | - | 24 hours 100 microliters | - |
| | Skin - Moderate irritant | Rabbit | - | 24 hours 25 milligrams | - |
| | Skin - Severe irritant | Rabbit | - | 24 hours 500 milligrams | - |
| ETHYL ALCOHOL | Eyes - Mild irritant | Rabbit | - | 24 hours 500 milligrams | - |
| | Eyes - Moderate irritant | Rabbit | - | 0.066666667 minutes 100 milligrams | - |
| | Eyes - Moderate irritant | Rabbit | - | 100 microliters | - |
| | Eyes - Severe irritant | Rabbit | - | 500 milligrams | - |
| | Skin - Mild irritant | Rabbit | - | 400 milligrams | - |
| | Skin - Moderate irritant | Rabbit | - | 24 hours 20 milligrams | - |

**Conclusion/Summary** : Not available.

**Sensitizer**

**Conclusion/Summary** : Not available.

**Carcinogenicity**

**Conclusion/Summary** : Not available.

**Classification**

| Product/ingredient name | ACGIH | IARC | EPA | NIOSH | NTP | OSHA |
|---|---|---|---|---|---|---|
| ETHYL ALCOHOL | A3 | 1 | - | - | - | - |

**Mutagenicity**

**Conclusion/Summary** : Not available.

**Teratogenicity**

**Conclusion/Summary** : Not available.

**Reproductive toxicity**

**Conclusion/Summary** : Not available.

# 12. Ecological information

**Ecotoxicity** : No known significant effects or critical hazards.

**Aquatic ecotoxicity**

| Product/ingredient name | Result | Species | Exposure |
|---|---|---|---|
| pentasodium triphosphate | Acute EC50 276.61 mg/L Fresh water | Crustaceans - Ceriodaphnia dubia - Neonate - <24 hours | 48 hours |
| sodium carbonate | Acute EC50 242000 ug/L Fresh water | Algae - Navicula seminulum | 96 hours |
| | Acute LC50 176000 ug/L Fresh water | Crustaceans - Amphipoda | 48 hours |
| | Acute LC50 265000 ug/L Fresh water | Daphnia - Daphnia magna | 48 hours |
| | Acute LC50 300000 ug/L Fresh water | Fish - Lepomis macrochirus - 3.88 cm - 0.96 g | 96 hours |

# 12. Ecological information

| | | | |
|---|---|---|---|
| sodium chloride | Acute EC50 2430000 ug/L Fresh water | Algae - Navicula seminulum | 96 hours |
| | Acute EC50 402600 ug/L Fresh water | Daphnia - Daphnia magna | 48 hours |
| | Acute LC50 1042 mg/L Fresh water | Crustaceans - Ceriodaphnia dubia - <24 hours | 48 hours |
| | Acute LC50 1000000 ug/L Fresh water | Fish - Morone saxatilis - Larvae | 96 hours |
| | Chronic NOEC 0.314 g/L Fresh water | Daphnia - Daphnia pulex | 21 days |
| | Chronic NOEC 100 mg/L Fresh water | Fish - Gambusia holbrooki - Adult | 8 weeks |
| Agral 90 | Acute EC50 12 mg/L Fresh water | Algae - Pseudokirchneriella subcapitata | 96 hours |
| | Acute LC50 1 to 2 ug/L Fresh water | Crustaceans - Thamnocephalus platyurus - Nauplii - 24 hours | 48 hours |
| | Acute LC50 4800 ug/L Fresh water | Daphnia - Daphnia pulex - Larvae - <=24 hours | 48 hours |
| | Acute LC50 1300 ug/L Fresh water | Fish - Lepomis macrochirus - 1 g | 96 hours |
| | Chronic NOEC 35 ug/L Fresh water | Fish - Oryzias latipes - Fry - 1 days post-hatch | 100 days |
| tetrasodium pyrophosphate | Acute LC50 391000 ug/L Fresh water | Daphnia - Daphnia magna | 48 hours |
| | Acute LC50 1380000 ug/L Fresh water | Fish - Gambusia affinis - Adult | 96 hours |
| Sodium lauryl ether sulfate | Acute EC50 3.12 mg/L Fresh water | Crustaceans - Ceriodaphnia dubia - Neonate - <24 hours | 48 hours |
| ETHYL ALCOHOL | Acute EC50 17.921 mg/L Marine water | Algae - Ulva pertusa | 96 hours |
| | Acute EC50 2000 ug/L Fresh water | Daphnia - Daphnia magna | 48 hours |
| | Acute LC50 25500 ug/L Marine water | Crustaceans - Artemia franchiscana - Larvae | 48 hours |
| | Acute LC50 42000 ug/L Fresh water | Fish - Oncorhynchus mykiss | 4 days |
| | Chronic NOEC 0.375 ul/L Fresh water | Fish - Gambusia holbrooki - Larvae - 3 days | 12 weeks |

**Conclusion/Summary** : Not available.

**Persistence/degradability**

**Conclusion/Summary** : Not available.

# 13. Disposal considerations

**Waste disposal** : The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**Disposal should be in accordance with applicable regional, national and local laws and regulations.**

**Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.**

# 14. Transport information

# 14. Transport information

| Regulatory information | UN number | Proper shipping name | Classes | PG* | Label | Additional information |
|---|---|---|---|---|---|---|
| DOT Classification | Not regulated. | - | - | - | | - |
| TDG Classification | Not regulated. | - | - | - | | - |
| Mexico Classification | Not regulated. | - | - | - | | - |
| ADR/RID Class | Not regulated. | - | - | - | | - |
| IMDG Class | Not regulated. | - | - | - | | - |
| IATA-DGR Class | Not regulated. | - | - | - | | - |

PG* : Packing group

# 15. Regulatory information

**HCS Classification** : Irritating material
Target organ effects

**U.S. Federal regulations** : **TSCA 8(a) PAIR**: Agral 90
**TSCA 8(a) IUR Exempt/Partial exemption**: Not determined
**United States inventory (TSCA 8b)**: Not determined.

**SARA 302/304/311/312 extremely hazardous substances**: No products were found.
**SARA 302/304 emergency planning and notification**: No products were found.
**SARA 302/304/311/312 hazardous chemicals**: sodium chloride; sodium carbonate; pentasodium triphosphate; tetrasodium pyrophosphate
**SARA 311/312 MSDS distribution - chemical inventory - hazard identification**: sodium chloride: Immediate (acute) health hazard, Delayed (chronic) health hazard; sodium carbonate: Immediate (acute) health hazard, Delayed (chronic) health hazard; pentasodium triphosphate: Immediate (acute) health hazard; tetrasodium pyrophosphate: Immediate (acute) health hazard

**Clean Water Act (CWA) 311**: pentasodium triphosphate; trisodium trimetaphosphate

**Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)** : Not listed

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

**DEA List II Chemicals (Essential Chemicals)** : Not listed

**State regulations**

**Massachusetts** : The following components are listed: TRIPHOSPHORIC ACID, PENTASODIUM SALT; TETRASODIUM PYROPHOSPHATE

**New York** : The following components are listed: Sodium phosphate, tribasic

# 15. Regulatory information

**New Jersey** : The following components are listed: TETRASODIUM PYROPHOSPHATE; DIPHOSPHORIC ACID, TETRASODIUM SALT; ETHYL ALCOHOL; ALCOHOL

**Pennsylvania** : The following components are listed: TRIPHOSPHORIC ACID, PENTASODIUM SALT; DIPHOSPHORIC ACID, TETRASODIUM SALT; DENATURED ALCOHOL

**California Prop. 65**

**WARNING:** This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

| Ingredient name | Cancer | Reproductive | No significant risk level | Maximum acceptable dosage level |
|---|---|---|---|---|
| ETHYL ALCOHOL | No. | Yes. | No. | No. |

**Canada inventory** : Not determined.

**International regulations**

**International lists** : **Australia inventory (AICS)**: Not determined.
**China inventory (IECSC)**: Not determined.
**Japan inventory**: Not determined.
**Korea inventory**: Not determined.
**New Zealand Inventory of Chemicals (NZIoC)**: Not determined.
**Philippines inventory (PICCS)**: Not determined.

**Chemical Weapons Convention List Schedule I Chemicals** : Not listed

**Chemical Weapons Convention List Schedule II Chemicals** : Not listed

**Chemical Weapons Convention List Schedule III Chemicals** : Not listed

# 16. Other information

**Label requirements** : CAUSES EYE AND SKIN IRRITATION. MAY BE HARMFUL IF SWALLOWED. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.

**Hazardous Material Information System (U.S.A.)** :

| | | |
|---|---|---|
| Health | * | 2 |
| Flammability | | 0 |
| Physical hazards | | 0 |

**Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.**

**The customer is responsible for determining the PPE code for this material.**

**National Fire Protection Association (U.S.A.)** :

# 16. Other information

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**Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.**

| | | |
|---|---|---|
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| **Date of previous issue** | : | 12/15/2011. |
| **Version** | : | 0.01 |
| **Prepared by** | : | Not available. |

◤ **Indicates information that has changed from previously issued version.**

**Notice to reader**

**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.**