Material Safety Data Sheet
acc. to ISO/DIS 11014

Printing Date 04/13/2012  Reviewed on 04/13/2012  Revision Number 1

1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
- **Trade name:** WS-8010 B-1/2 Base
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:** Royal Adhesives And Sealants, LLC
  2001 W. Washington Street
  South Bend IN 46628-2023
- **Information department:** Environment protection department.
- **Emergency telephone number:** ChemTrec: UNITED STATES 1(800)424-9300  INTERNATIONAL 703-527-3887

2 Composition/information on ingredients

- **Chemical characterization:** Mixtures
- **Description:** Mixture of the substances listed below with nonhazardous additions.

#### Dangerous components:

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>Concentration</th>
<th>Classifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>68611-50-7</td>
<td>Polysulphide Elastomer</td>
<td>50-100%</td>
<td>H402; H412</td>
</tr>
<tr>
<td>471-34-1</td>
<td>calcium carbonate</td>
<td>10-25%</td>
<td>H315; H319</td>
</tr>
<tr>
<td>68611-50-7</td>
<td>Polysulphide Polymer</td>
<td>2.5-10%</td>
<td>H411; H401</td>
</tr>
<tr>
<td>13463-67-7</td>
<td>titanium dioxide</td>
<td>2.5-10%</td>
<td>H333</td>
</tr>
<tr>
<td>14808-60-7</td>
<td>Quartz (SiO2)</td>
<td>≤0.5%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Thiuram Accelerator</td>
<td>≤0.09%</td>
<td>H373; H400; H410; H302; H332; H315; H319; H317</td>
</tr>
</tbody>
</table>

- **Additional information:** For the wording of the listed risk phrases refer to section 15.

3 Hazards identification

- **Classification of the substance or mixture**
  - H315  Causes skin irritation.
  - H319  Causes serious eye irritation.
  - H333  May be harmful if inhaled.
  - H412  Harmful to aquatic life with long lasting effects.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
  - Irritant
    - Irritating to eyes and skin.
    - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- **Classification system:**
  - The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
· Label elements
  · Labelling according to EU guidelines:
    The product has been classified and marked in accordance with directives on hazardous materials.
  · Code letter and hazard designation of product:
    Irritant
  · Risk phrases:
    Irritating to eyes and skin.
    Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
  · Safety phrases:
    Keep out of the reach of children.
    Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
    Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
    If swallowed, seek medical advice immediately and show this container or label.
· Classification system:
  · NFPA ratings (scale 0 - 4)
    Health = 1
    Fire = 1
    Reactivity = 0
  · HMIS-ratings (scale 0 - 4)
    HEALTH
    Health = 1
    FIRE
    Fire = 1
    PHYSICAL HAZARD
    Physical Hazard = 0

* 4 First aid measures
· After inhalation:
  Supply fresh air or oxygen; call for doctor.
  In case of unconsciousness place patient stably in side position for transportation.
· After skin contact:
  Wash contaminated skin with soap and water.
· After eye contact:
  Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
· After swallowing: Seek medical treatment.

* 5 Firefighting measures
· Suitable extinguishing agents:
  CO2, extinguishing powder or water spray. Fight larger fires with water spray.
  Use fire fighting measures that suit the environment.
· Protective equipment: Protective clothing and respiratory protective device.

* 6 Accidental release measures
· Personal precautions, protective equipment and emergency procedures
  Wear protective equipment. Keep unprotected persons away.
  Ensure adequate ventilation
· Environmental precautions: Do not allow to enter sewers/ surface or ground water.
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Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of contaminated material as waste in accordance with federal state and local regulations.
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents

Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

Handling and storage

Handling:
Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
Information about protection against explosions and fires: No special measures required.

Storage:
Requirements to be met by storerooms and receptacles: Store in a cool location away from direct heat.
Information about storage in one common storage facility: Store away from oxidizing agents.
Further information about storage conditions: Keep receptacle tightly sealed.
Specific end use(s) No further relevant information available.

Exposure controls/personal protection

Additional information about design of technical systems: No further data.

Components with limit values that require monitoring at the workplace:

<table>
<thead>
<tr>
<th>Substance Description</th>
<th>PEL</th>
<th>REL</th>
<th>TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>13463-67-7 titanium dioxide (2.5-10%)</td>
<td>15* mg/m³</td>
<td>See Pocket Guide App. A</td>
<td>10 mg/m³</td>
</tr>
<tr>
<td>14808-60-7 Quartz (SiO2) (&lt;0.1%)</td>
<td>see Quartz listing</td>
<td>0.05* mg/m³</td>
<td>0.025* mg/m³</td>
</tr>
<tr>
<td>*total dust</td>
<td>*respirable dust; See Pocket Guide App. A</td>
<td>*as respirable fraction</td>
<td></td>
</tr>
</tbody>
</table>

Additional information:
This product contains crystalline silica (Quartz) which is not hazardous in a wet or encapsulated state. However, if a formula containing hazardous fillers is reduced to a respirable fraction by grinding or putting into an airborne powder, the powder is considered a hazardous material.
Formaldehyde - Trace amounts of Formaldehyde are present in the mixture. However, it is unlikely that this chemical will be released as the curing process is at ambient temperature.
The lists that were valid during the creation were used as basis.

Personal protective equipment (see listings below)

General protective and hygienic measures:
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.

Breathing equipment:
Not necessary if room is well-ventilated.
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- **Protection of hands:**
  Protective gloves
  The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
- **Material of gloves**
  Neoprene gloves
  Nitrile rubber, NBR
  The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- **Eye protection:** Safety glasses with side shields.
- **Body protection:** Protective work clothing

<table>
<thead>
<tr>
<th>9 Physical and chemical properties</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General Information</strong></td>
</tr>
<tr>
<td><strong>Appearance:</strong></td>
</tr>
<tr>
<td>Form: Paste</td>
</tr>
<tr>
<td>Color: Red</td>
</tr>
<tr>
<td>Odor: Characteristic</td>
</tr>
<tr>
<td><strong>Change in condition</strong></td>
</tr>
<tr>
<td>Melting point: Undetermined.</td>
</tr>
<tr>
<td>Boiling point: Undetermined.</td>
</tr>
<tr>
<td><strong>Flash point:</strong> &gt; 97°C (&gt; 207 °F)</td>
</tr>
<tr>
<td><strong>Auto igniting:</strong> Product is not selfigniting.</td>
</tr>
<tr>
<td><strong>Danger of explosion:</strong> Product does not present an explosion hazard.</td>
</tr>
<tr>
<td><strong>Specific gravity at 20°C (68 °F):</strong> 1.52 g/cm³ (12.684 lbs/gal)</td>
</tr>
<tr>
<td>1.02</td>
</tr>
<tr>
<td><strong>Solubility in / Miscibility with</strong></td>
</tr>
<tr>
<td>Water: Not miscible or difficult to mix.</td>
</tr>
<tr>
<td><strong>Solvent content:</strong></td>
</tr>
<tr>
<td>Organic solvents: 0.0 %</td>
</tr>
<tr>
<td>VOC (Per EPA 24) N/A GMS/L</td>
</tr>
<tr>
<td><strong>Solids content:</strong> 100.0 %</td>
</tr>
<tr>
<td><strong>Other information</strong></td>
</tr>
<tr>
<td>No further relevant information available.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>10 Stability and reactivity</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Thermal decomposition / conditions to be avoided:</strong> No decomposition if used according to specifications.</td>
</tr>
<tr>
<td><strong>Incompatible materials:</strong> Reacts with oxidizing agents.</td>
</tr>
<tr>
<td><strong>Hazardous decomposition products:</strong></td>
</tr>
</tbody>
</table>
11 Toxicological information

- Acute toxicity:
- Primary irritant effect:
  - on the skin: May irritate the skin.
  - on the eye: May irritate the eye.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:
  Ingestion - May be harmful if ingested.
  Preexisting eye, skin and respiratory disorders may be aggravated by exposure to this product.

12 Ecological information

- Aquatic toxicity: No further relevant information available.
- Persistence and degradability: No further relevant information available.
- Behavior in environmental systems:
- Bioaccumulative potential: No further relevant information available.
- Ecotoxicological effects:
- Remark: Harmful to fish
- Additional ecological information:
- General notes:
  Water hazard class 3 (Self-assessment): extremely hazardous for water
  Do not allow product to reach ground water, water course or sewage system, even in small quantities.
  Harmful to aquatic organisms

13 Disposal considerations

- Waste treatment methods
- Recommendation:
  Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
  Must be specially treated adhering to official regulations.
- Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

14 Transport information

- UN-Number
- DOT, ADR, ADN, IMDG, IATA: Void
- UN proper shipping name
- DOT, ADR, ADN, IMDG, IATA: Void
- Transport hazard class(es)
  - DOT
    - Class: Void
      Non-Hazardous
  - ADR, IMDG, IATA
    - Class: Void
      Not Regulated
### Trade name: WS-8010 B-1/2 Base

- **ADN/R Class:** Void
- **Packing group:** Void
- **Special precautions for user:** Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.
- **Transport/Additional information:**
  - DOT
  - Remarks: Non regulated
  - IMDG
  - Remarks: Non regulated
  - UN "Model Regulation": -

### 15 Regulatory information

**Sara**

- **Section 355 (extremely hazardous substances):**
  - 50-00-0 formaldehyde

- **Section 313 (Specific toxic chemical listings):**
  - Thiuram Accelerator
  - 50-00-0 formaldehyde

**TSCA (Toxic Substances Control Act):**

All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

**Proposition 65**

- **Chemicals known to cause cancer:**
  - 14808-60-7 Quartz (SiO2)
  - 50-00-0 formaldehyde

- **Chemicals known to cause reproductive toxicity:**
  - None of the ingredients is listed.

**DSL (Canada Domestic Substance List)**

All components of this product are on the DSL (Canada Domestic Substance list) or are exempt from DSL requirements.

**EPA (Environmental Protection Agency)**

- 50-00-0 formaldehyde

**IARC (International Agency for Research on Cancer)**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>titanium dioxide</td>
<td>2B</td>
</tr>
<tr>
<td>Quartz (SiO2)</td>
<td>1</td>
</tr>
<tr>
<td>Thiuram Accelerator</td>
<td>3</td>
</tr>
<tr>
<td>formaldehyde</td>
<td>1</td>
</tr>
</tbody>
</table>

**NTP (National Toxicology Program)**

- 14808-60-7 Quartz (SiO2)
Trade name: WS-8010 B-1/2 Base

50-00-0 formaldehyde

- TLV (Threshold Limit Value established by ACGIH)
  13463-67-7 titanium dioxide  A4
  14808-60-7 Quartz (SiO2) A2
  Thiuram Accelerator A4
  50-00-0 formaldehyde A2

- MAK (German Maximum Workplace Concentration)
  13463-67-7 titanium dioxide 3A
  14808-60-7 Quartz (SiO2) 1
  50-00-0 formaldehyde 4

- NIOSH-Ca (National Institute for Occupational Safety and Health)
  13463-67-7 titanium dioxide
  14808-60-7 Quartz (SiO2)
  50-00-0 formaldehyde

- OSHA-Ca (Occupational Safety & Health Administration)
  50-00-0 formaldehyde

Product related hazard informations:
The product has been classified and marked in accordance with directives on hazardous materials.

- Risk phrases:
  Irritating to eyes and skin.
  Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- National regulations:
  Water hazard class: Water hazard class 3 (Self-assessment): extremely hazardous for water.

16 Other information

Although the information and recommendations set forth in this MSDS are presented in good faith and are believed to be correct as of the date of this MSDS, Royal Adhesives & Sealants makes no representations as to the completeness or accuracy thereof. Information is supplied on the condition that the persons receiving and using it will make their own determination as to the suitability for their purpose prior to use. In no event will Royal Adhesives & Sealants or any affiliate thereof be responsible for damages of any nature whatsoever resulting from the use or reliance on the information set forth in the MSDS.

- Department issuing MSDS: Environment protection department.

- Abbreviations and acronyms:
  ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
  IMDG: International Maritime Code for Dangerous Goods
  IATA: International Air Transport Association
  ICAO: International Civil Aviation Organization
  ACGIH: American Conference of Governmental Industrial Hygienists
  NFPA: National Fire Protection Association (USA)
  HMIS: Hazardous Materials Identification System (USA)