1. Product and Company Identification

Product Name: SABA Aquabond RSD 3801
CAS #: Mixture
Product use: Adhesive
Manufacturer: SABA Dinxperlo BV
Industriestraat 3
P.O. Box 3
NL - 7090 AA Dinxperlo, NL
Phone: +31 315 658999
Emergency Phone: 1-800-535-5053 (24/7)
International Phone: 1-352-323-3500 (Collect)

2. Hazards Identification

Emergency overview
DANGER -- CORROSIVE
May cause chemical burns to eyes and skin.
May cause sensitization by inhalation and skin contact.

Potential short term health effects
Routes of exposure
Eye, Skin contact, Inhalation, Ingestion.

Eyes
May cause severe irritation or chemical burns.

Skin
May cause severe irritation or chemical burns. Contains a potential skin sensitizer.

Inhalation
Excessive intentional inhalation may cause coughing, sneezing, nasal discharge, respiratory tract irritation, headache, dizziness.

Ingestion
Harmful if swallowed. May cause chemical burns to mouth, throat and stomach.

Target organs
Eyes. Skin. Respiratory system.

Chronic effects
Prolonged or repeated exposure to dilutions can cause drying, defatting and dermatitis.

Signs and symptoms
Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,3-Butadiene, 2-chloro-, homopolymer</td>
<td>9010-98-4</td>
<td>30 - 60</td>
</tr>
<tr>
<td>Rosin</td>
<td>8050-09-7</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Zinc oxide</td>
<td>1314-13-2</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Potassium hydroxide</td>
<td>1310-58-3</td>
<td>0.1 - 1</td>
</tr>
</tbody>
</table>

4. First Aid Measures

First aid procedures

Eye contact
Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for 15 minutes. Obtain medical attention immediately.

Skin contact
Immediately flush with water. Wash with soap and water. Obtain medical attention if irritation persists.

Inhalation
If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.
Ingestion

Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Obtain medical attention. Never give anything by mouth if victim is unconscious, or is convulsing.

Notes to physician

Symptoms may be delayed.

General advice

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. Avoid contact with eyes and skin. Keep out of reach of children.

5. Fire Fighting Measures

Flammable properties

Not flammable by WHMIS/OSHA criteria.

Extinguishing media

Suitable extinguishing media

Treat for surrounding material.

Unsuitable extinguishing media

Not available

Protection of firefighters

Specific hazards arising from the chemical

Not available

Protective equipment for firefighters

Firefighters should wear full protective clothing including self contained breathing apparatus.

Hazardous combustion products

May include and are not limited to: Oxides of carbon. Hydrogen chloride. Some metallic oxides.

Explosion data

Sensitivity to mechanical impact

Not available

Sensitivity to static discharge

Not available

6. Accidental Release Measures

Personal precautions

Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.

Methods for containment

Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning up

Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills in original containers for re-use.

7. Handling and Storage

Handling

Use good industrial hygiene practices in handling this material. Do not get this material in your eyes, on your skin, or on your clothing.

Storage

Keep out of the reach of children. Store in a closed container away from incompatible materials.
8. Exposure Controls / Personal Protection

<table>
<thead>
<tr>
<th>Exposure limits Ingredient(s)</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,3-Butadiene, 2-chloro-, homopolymer</td>
<td>ACGIH-TLV Not established</td>
</tr>
<tr>
<td>OSHA-PEL Not established</td>
<td></td>
</tr>
<tr>
<td>Potassium hydroxide</td>
<td>ACGIH-TLV Ceiling: 2 mg/m3</td>
</tr>
<tr>
<td>OSHA-PEL Not established</td>
<td></td>
</tr>
<tr>
<td>Rosin</td>
<td>ACGIH-TLV Not established</td>
</tr>
<tr>
<td>OSHA-PEL Not established</td>
<td></td>
</tr>
<tr>
<td>Zinc oxide</td>
<td>ACGIH-TLV TWA: 2 mg/m3</td>
</tr>
<tr>
<td>STEL: 10 mg/m3</td>
<td></td>
</tr>
<tr>
<td>OSHA-PEL TWA: 5 mg/m3</td>
<td></td>
</tr>
</tbody>
</table>

Engineering controls

General ventilation normally adequate.

Personal protective equipment

- **Eye / face protection**: The following eye protection(s) are recommended (specially during all handling except during spray application): safety glasses with side shields.
- **Hand protection**: Use of rubber gloves recommended. Confirm with a reputable supplier first.
- **Skin and body protection**: As required by employer code.
- **Respiratory protection**: Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.
- **General hygiene considerations**: Use good industrial hygiene practices in handling this material. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

9. Physical and Chemical Properties

| Appearance | Liquid |
| Form | Liquid |
| Odor | weak, Characteristic |
| Odor threshold | Not determined |
| Physical state | Liquid |
| pH | 12.8 |
| Melting point | May solidify at 0°C (32°F) based on data for: water. |
| Freezing point | May solidify at 0°C (32°F) based on data for: water. |
| Boiling point | 212.00 °F (100 °C) |
| Flash point | Non-combustible. Non-flammable substance. |
| Pour point | Not determined |
| Evaporation rate | 30 - 40 (Water) compared with Ether (anhydrous) |
| Flammability limits in air, lower, % by volume | Not determined |
| Flammability limits in air, upper, % by volume | Not determined |
| Vapor pressure | 23 hPa |
| Vapor density | Not determined |
Specific gravity: 1.09 g/cm³
Octanol/water coefficient: Not determined
Solubility (H₂O): Fully miscible
Auto-ignition temperature: Not determined
VOC (Weight %): Not determined
Viscosity: 1750 mPas
Bulk density: Not determined
Percent volatile: Not determined

10. Stability and Reactivity

Chemical stability: Stable under recommended storage conditions.
Conditions to avoid: Reacts violently with acids. This product may react with oxidizing agents. Do not mix with other chemicals.
Hazardous decomposition products: May include and are not limited to: Oxides of carbon. Hydrogen chloride. Some metallic oxides.
Possibility of hazardous reactions: Hazardous polymerization does not occur.

11. Toxicological Information

Component analysis - LC50
Ingredient(s) | LC50
--- | ---
1,3-Butadiene, 2-chloro-, homopolymer | Not determined
Potassium hydroxide | Not determined
Rosin | Not determined

Component analysis - Oral LD50
Ingredient(s) | LD50
--- | ---
1,3-Butadiene, 2-chloro-, homopolymer | Not determined
Potassium hydroxide | 214 mg/kg rat
Rosin | > 2000 mg/kg rat
Zinc oxide | 7950 mg/kg mouse; 5000 mg/kg rat

Effects of acute exposure:
- **Eye**: May cause severe irritation or chemical burns.
- **Skin**: May cause severe irritation or chemical burns. Contains a potential skin sensitizer.
- **Inhalation**: Excessive intentional inhalation may cause coughing, sneezing, nasal discharge, respiratory tract irritation, headache, dizziness.
- **Ingestion**: Harmful if swallowed. May cause chemical burns to mouth, throat and stomach.
- **Sensitization**: Contains a potential respiratory tract sensitizer. Contains a potential skin sensitizer.
- **Chronic effects**: Non-hazardous by WHMIS/OSHA criteria.
- **Carcinogenicity**: Non-hazardous by WHMIS/OSHA criteria.
- **IARC - Group 3 (Not Classifiable)**: 1,3-Butadiene, 2-chloro-, homopolymer (9010-98-4) Supplement 7 [1987]; Monograph 19 [1979]
- **Mutagenicity**: Non-hazardous by WHMIS/OSHA criteria.
- **Reproductive effects**: Non-hazardous by WHMIS/OSHA criteria.
- **Teratogenicity**: Non-hazardous by WHMIS/OSHA criteria.
- **Synergistic Materials**: Not available
12. Ecological Information

Ecotoxicity - Freshwater Algae Data
- Rosin 8050-09-7 72 Hr EC50 Desmodesmus subspicatus: 400 mg/L

Ecotoxicity - Freshwater Fish Species Data
- Potassium hydroxide 1310-58-3 96 Hr LC50 Gambusia affinis: 80 mg/L [static]

Ecotoxicity - Water Flea Data
- Rosin 8050-09-7 48 Hr EC50 Daphnia magna: 3.8 - 5.4 mg/L

Components of this product have been identified as having potential environmental concerns.

Environmental effects
- Not determined

Aquatic toxicity
- Not determined

Persistence / degradability
- Not determined

Bioaccumulation / accumulation
- Not determined

Partition coefficient
- Not determined

Mobility in environmental media
- Not determined

Chemical fate information
- Not determined

Other adverse effects
- Not determined

13. Disposal Considerations

Waste codes
- Not regulated.

Disposal instructions
- Dispose in accordance with all applicable regulations.

Waste from residues / unused products
- Dispose in accordance with all applicable regulations.

Contaminated packaging
- Dispose in accordance with all applicable regulations.

14. Transport Information

U.S. Department of Transportation (DOT)

Basic shipping requirements:
- Proper shipping name: Corrosive liquid, basic, inorganic, n.o.s. (POTASSIUM HYDROXIDE RQ = 185185 lbs)
- Hazard class: 8
- UN number: UN3266
- Packing group: III
- Additional information: IB3, T7, TP1, TP28
- ERG number: 154

Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:
- Proper shipping name: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (POTASSIUM HYDROXIDE)
- Hazard class: 8
- UN number: UN3266
- Packing group: III
- Additional information: Special provisions 16
15. Regulatory Information

Canadian federal regulations
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Canada - WHMIS - Ingredient Disclosure List
Potassium hydroxide 1310-58-3 1 %
Zinc oxide 1314-13-2 1 %

US Federal regulations
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities
Potassium hydroxide 1310-58-3 1000 Lb final RQ; 454 kg final RQ

U.S. - CWA (Clean Water Act) - Hazardous Substances
Potassium hydroxide 1310-58-3 Present

Occupational Safety and Health Administration (OSHA)
29 CFR 1910.1200 hazardous chemical
Yes

CERCLA (Superfund) reportable quantity
Potassium hydroxide: 1000.0000
Sodium hydroxide: 1000.0000
1,3-Butadiene, 2-chloro-: 100.0000

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
No

Section 311 hazardous chemical
Yes

Clean Air Act (CAA)
Not available

Clean Water Act (CWA)
Not available

WHMIS status
Controlled

WHMIS classification
Class D - Division 2A, 2B, Class E - Corrosive Material
State regulations Not available

U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances
Potassium hydroxide 1310-58-3 Present
Zinc oxide 1314-13-2 Present (fume)

U.S. - Louisiana - Reportable Quantity List for Pollutants
Potassium hydroxide 1310-58-3 1000 Lb final RQ; 454 kg final RQ

U.S. - Massachusetts - Right To Know List
Potassium hydroxide 1310-58-3 Present
Zinc oxide 1314-13-2 Present (fume)

U.S. - Minnesota - Hazardous Substance List
Potassium hydroxide 1310-58-3 Present
Rosin 8050-09-7 Present (as resin acids - colophony)
Zinc oxide 1314-13-2 Present (dust and fume)

U.S. - New Jersey - Right to Know Hazardous Substance List
Potassium hydroxide 1310-58-3 sn 1571
Zinc oxide 1314-13-2 sn 2037

U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances
Potassium hydroxide 1310-58-3 1000 Lb RQ (air); 100 lb RQ (land/water)

U.S. - Pennsylvania - RTK (Right to Know) List
Potassium hydroxide 1310-58-3 Environmental hazard
Zinc oxide 1314-13-2 Environmental hazard (fume)

U.S. - Rhode Island - Hazardous Substance List
Potassium hydroxide 1310-58-3 Toxic; Flammable
Zinc oxide 1314-13-2 Toxic

Inventory name

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>No</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

Disclaimer
Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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Prepared by Dell Tech Laboratories Ltd. (519) 858-5021
Other information For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.