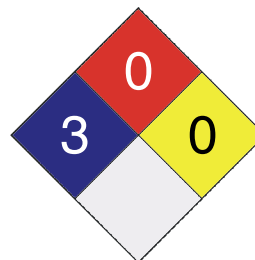


1. Product and Company Identification

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)

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	* 3
Flammability	0
Physical Hazard	0
Personal Protection	B



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

Ingredient(s)	CAS #	Percent
1,3-Butadiene, 2-chloro-, homopolymer	9010-98-4	30 - 60
Rosin	8050-09-7	1 - 5
Zinc oxide	1314-13-2	1 - 5
Potassium hydroxide	1310-58-3	0.1 - 1

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

Exposure limits

Ingredient(s)	Exposure Limits
1,3-Butadiene, 2-chloro-, homopolymer	ACGIH-TLV Not established OSHA-PEL Not established
Potassium hydroxide	ACGIH-TLV Ceiling: 2 mg/m3 OSHA-PEL Not established
Rosin	ACGIH-TLV Not established OSHA-PEL Not established
Zinc oxide	ACGIH-TLV TWA: 2 mg/m3 STEL: 10 mg/m3 OSHA-PEL TWA: 5 mg/m3

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
Color	White. Blue. pink.
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.
Incompatible materials	Acids. Oxidizing agents.
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
Zinc oxide	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]
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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	Components of this product have been identified as having potential environmental concerns.	
Ecotoxicity - Freshwater Algae Data		
Rosin	8050-09-7	72 Hr EC50 <i>Desmodesmus subspicatus</i> : 400 mg/L
Ecotoxicity - Freshwater Fish Species Data		
Potassium hydroxide	1310-58-3	96 Hr LC50 <i>Gambusia affinis</i> : 80 mg/L [static]
Ecotoxicity - Water Flea Data		
Rosin	8050-09-7	48 Hr EC50 <i>Daphnia magna</i> : 3.8 - 5.4 mg/L
Environmental effects	Not determined	
Aquatic toxicity	Not determined	
Persistence / degradability	Not determined	
Bioaccumulation / accumulation	Not determined	
Partition coefficient	Not determined	
	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:	
Special provisions	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
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U.S. - CWA (Clean Water Act) - Hazardous Substances

Potassium hydroxide	1310-58-3	Present
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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

WHMIS labeling



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
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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)
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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

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	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)

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/manufacture listed on the first page of the document.