



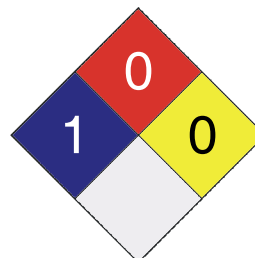
# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Product Name** SABA Activator 3739  
**CAS #** Mixture  
**Product use** Adhesive activator  
**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	/ 1
Flammability	0
Physical Hazard	0
Personal Protection	B



## 2. Hazards Identification

### Emergency overview

**CAUTION**  
EYE IRRITANT. Skin irritation possible with prolonged exposure.

### Potential short term health effects

#### Routes of exposure

Eye, Skin contact, Inhalation, Ingestion.

#### Eyes

May cause irritation.

#### Skin

May cause irritation.

#### Inhalation

May cause respiratory tract irritation.

#### Ingestion

May cause stomach distress, nausea or vomiting.

### Target organs

Eyes. Skin. Respiratory system.

### Chronic effects

Prolonged or repeated exposure can cause drying, defatting and dermatitis.

### Signs and symptoms

Symptoms may include redness, edema, drying, defatting and cracking of the skin.  
Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

## 3. Composition / Information on Ingredients

Ingredient(s)	CAS #	Percent
Zinc sulfate	7733-02-0	15 - 40

## 4. First Aid Measures

### First aid procedures

#### Eye contact

Flush with cool water. Remove contact lenses, if applicable, and continue flushing.  
Obtain medical attention if irritation persists.

#### Skin contact

Flush with cool 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. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.

### Notes to physician

Symptoms may be delayed.

<b>General advice</b>	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.
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## 5. Fire Fighting Measures

<b>Flammable properties</b>	Not flammable by WHMIS/OSHA criteria.
<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Treat for surrounding material.
<b>Unsuitable extinguishing media</b>	Not available
<b>Protection of firefighters</b>	
<b>Specific hazards arising from the chemical</b>	Not available
<b>Protective equipment for firefighters</b>	Firefighters should wear full protective clothing including self contained breathing apparatus.
<b>Hazardous combustion products</b>	May include and are not limited to: Oxides of sulphur. Some metallic oxides.
<b>Explosion data</b>	
<b>Sensitivity to mechanical impact</b>	Not available
<b>Sensitivity to static discharge</b>	Not available

## 6. Accidental Release Measures

<b>Personal precautions</b>	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.
<b>Methods for containment</b>	Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.
<b>Methods for cleaning up</b>	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

<b>Handling</b>	Use good industrial hygiene practices in handling this material. When using do not eat or drink.
<b>Storage</b>	Keep out of reach of children. Store in a closed container away from incompatible materials. Avoid contamination of food.

## 8. Exposure Controls / Personal Protection

<b>Exposure limits</b>	
<b>Ingredient(s)</b>	<b>Exposure Limits</b>
Zinc sulfate	<b>ACGIH-TLV</b> Not established <b>OSHA-PEL</b> Not established
<b>Engineering controls</b>	General ventilation normally adequate.
<b>Personal protective equipment</b>	
<b>Eye / face protection</b>	Wear safety glasses with side shields.
<b>Hand protection</b>	Use of rubber gloves recommended. Confirm with a reputable supplier first.
<b>Skin and body protection</b>	As required by employer code.
<b>Respiratory protection</b>	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.
<b>General hygiene considerations</b>	Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

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## 9. Physical and Chemical Properties

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Appearance	Liquid.
Color	Colorless
Form	Fluid
Odor	weak, Characteristic
Odor threshold	Not determined
Physical state	Liquid
pH	3.9 @ 20°C
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 applicable
Flammability limits in air, upper, % by volume	Not applicable
Vapor pressure	23 hPa @ 20°C
Vapor density	Not determined
Specific gravity	1.17 g/cm3
Octanol/water coefficient	Not determined
Solubility (H2O)	Fully miscible
Auto-ignition temperature	Not applicable
VOC (Weight %)	Not determined
Softening point	Not determined
Viscosity	10 mPas @ 20°C
Bulk density	Not determined
Percent volatile	0

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## 10. Stability and Reactivity

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Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Do not mix with other chemicals.
Incompatible materials	Reacts vigorously with acids. Reacts vigorously with alkaline material.
Hazardous decomposition products	May include and are not limited to: Oxides of sulphur. Some metallic oxides.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

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## 11. Toxicological Information

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### Component analysis - LC50

Ingredient(s)	LC50
Zinc sulfate	Not determined

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### Component analysis - Oral LD50

Ingredient(s)	LD50
Zinc sulfate	500 mg/kg rat

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### Effects of acute exposure

Eye	May cause irritation.
Skin	May cause irritation.
Inhalation	May cause respiratory tract irritation.
Ingestion	May cause stomach distress, nausea or vomiting.
Sensitization	Non-hazardous by WHMIS/OSHA criteria.
Chronic effects	Non-hazardous by WHMIS/OSHA criteria.

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<b>Carcinogenicity</b>	Non-hazardous by WHMIS/OSHA criteria.
<b>Mutagenicity</b>	Non-hazardous by WHMIS/OSHA criteria.
<b>Reproductive effects</b>	Non-hazardous by WHMIS/OSHA criteria.
<b>Teratogenicity</b>	Non-hazardous by WHMIS/OSHA criteria.
<b>Synergistic Materials</b>	Not determined

## 12. Ecological Information

<b>Ecotoxicity</b>	Components of this product have been identified as having potential environmental concerns.	
<b>Ecotoxicity - Freshwater Algae Data</b>		
Zinc sulfate	7733-02-0	72 Hr EC50 Chlorella vulgaris: 64.8 mg/L; 96 Hr EC50 Chlorella vulgaris: 2.4 mg/L; 72 Hr EC50 Pseudokirchneriella subcapitata: 0.056 mg/L [static]
<b>Ecotoxicity - Freshwater Fish Species Data</b>		
Zinc sulfate	7733-02-0	96 Hr LC50 Oncorhynchus mykiss: 0.162 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 0.03-0.05 mg/L [semi-static]; 96 Hr LC50 Oncorhynchus mykiss: 0.34-0.93 mg/L [static]; 96 Hr LC50 Pimephales promelas: 0.218-0.42 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 0.06 mg/L [static]; 96 Hr LC50 Pimephales promelas: 0.23-0.48 mg/L; 96 Hr LC50 Pimephales promelas: 0.168-0.25 mg/L [semi-static]; 96 Hr LC50 Cyprinus carpio: 0.15 mg/L [semi-static]; 96 Hr LC50 Cyprinus carpio: 16.85-27.
<b>Ecotoxicity - Water Flea Data</b>		
Zinc sulfate	7733-02-0	48 Hr EC50 Daphnia magna: 0.75 mg/L; 48 Hr EC50 Daphnia magna: 0.538 - 0.908 mg/L [Static]
<b>Environmental effects</b>	Not determined	
<b>Aquatic toxicity</b>	Not determined	
<b>Persistence / degradability</b>	Not determined	
<b>Bioaccumulation / accumulation</b>	Not determined	
<b>Partition coefficient</b>	Not determined	
<b>Mobility in environmental media</b>	Not determined	
<b>Chemical fate information</b>	Not determined	
<b>Other adverse effects</b>	Not determined	

## 13. Disposal Considerations

<b>Waste codes</b>	Not regulated.
<b>Disposal instructions</b>	Dispose in accordance with all applicable regulations.
<b>Waste from residues / unused products</b>	Dispose in accordance with all applicable regulations.
<b>Contaminated packaging</b>	Dispose in accordance with all applicable regulations.

## 14. Transport Information

<b>U.S. Department of Transportation (DOT)</b>	Not regulated as dangerous goods.
<b>Transportation of Dangerous Goods (TDG - Canada)</b>	Not regulated as dangerous goods.

## 15. Regulatory Information

<b>Canadian federal regulations</b>	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.	
<b>Canada - WHMIS - Ingredient Disclosure List</b>		
Zinc sulfate	7733-02-0	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**

Zinc sulfate 7733-02-0 1000 Lb final RQ; 454 kg final RQ

**U.S. - CWA (Clean Water Act) - Hazardous Substances**

Zinc sulfate 7733-02-0 Present

**Occupational Safety and Health Administration (OSHA)**

**29 CFR 1910.1200 hazardous chemical** Yes

**CERCLA (Superfund) reportable quantity**

Zinc sulfate: 1000.0000

**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 2B

**WHMIS labeling**

**State regulations**

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

**U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances**

Zinc sulfate 7733-02-0 Present

**U.S. - Louisiana - Reportable Quantity List for Pollutants**

Zinc sulfate 7733-02-0 1000 Lb final RQ; 454 kg final RQ

**U.S. - Massachusetts - Right To Know List**

Zinc sulfate 7733-02-0 Present

**U.S. - New Jersey - Right to Know Hazardous Substance List**

Zinc sulfate 7733-02-0 sn 2044

**U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances**

Zinc sulfate 7733-02-0 1000 Lb RQ (air); 100 lb RQ (land/water)

**U.S. - Pennsylvania - RTK (Right to Know) List**

Zinc sulfate 7733-02-0 Environmental hazard

**Inventory name**

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
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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<b>Prepared by</b>	Dell Tech Laboratories Ltd. (519) 858-5021
<b>Other information</b>	For an updated MSDS, please contact the supplier/manufacturee listed on the first page of the document.