



# BRYCE LABORATORIES

2266 DREW ROAD, #7, MISSISSAUGA, ONTARIO CANADA L5S 1B1

TEL: 905-678-1548

FAX: 905-678-1659

Email: [Sales@bryceindustriesinc.com](mailto:Sales@bryceindustriesinc.com)

## SAFETY DATA SHEET

Revision Date: N/A  
Date of Preparation: 6 Apr 2017

### Section 1: PRODUCT AND COMPANY IDENTIFICATION

#### Product Identifier

Product name and code: SULFITE INDICATOR, ACID STARCH (B26091)  
Other Means of Identification: -

#### Relevant Identified Uses and Restrictions

Recommended Use: Field test reagent  
Recommended Restrictions: -

#### Details of Supplier of SDS

Company: **Bryce Laboratories**  
2266 Drew Road, #7  
Mississauga, Ontario, Canada  
L5S 1B1  
Telephone: 905-678-1548  
Fax: 905-678-1649  
Email: [sales@bryceindustriesinc.com](mailto:sales@bryceindustriesinc.com)

#### Emergency Contact Information

24-Hour Emergency Number (USA): CHEMTREC (USA) 800-424-9300  
24-Hour Emergency Number (Canada): CANUTEC (Canada) 613-996-6666

### Section 2. HAZARDS IDENTIFICATION

#### Hazard Classification

**Physical Hazards**: Not classified  
**Health Hazards**: Skin corrosion & irritation: Category 1A  
Serious eye damage/eye irritation: Category 1

#### Label Elements

##### Symbols



##### Signal word

Warning

##### Hazard Statements

Causes severe skin burns and eye damage.  
Dusts cause irritation to the upper respiratory tract.

##### Precautionary statements

###### Prevention

Do not breathe dust/fume/gas/mist/vapors/spray  
Wash face, hands and any exposed skin thoroughly after handling  
Wear protective gloves/protective clothing/eye protection/face protection  
Use only in a well-ventilated area

###### Response

Immediately call a POISON CENTER or doctor/physician

###### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

###### Skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse

<b>Eyes</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
<b>Ingestion</b>	IF SWALLOWED: Rinse mouth. DO NOT induce vomiting
<b>Storage</b>	Store locked up. Store in a well-ventilated place. Keep container tightly closed
<b>Disposal</b>	Dispose of contents/container to an approved waste disposal plant
<b><u>Hazards not otherwise classified (HNOC)</u></b>	None known
<b><u>Unknown Toxicity</u></b>	Not Applicable.
<b><u>OSHA Regulatory Status</u></b>	This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

### Section 3. COMPOSITION / INFORMATION ON INGREDIENTS

Components	Common names / synonyms	CAS #	Weight (%)
Sulfamic acid	N/A	5329-14-6	60 - 100

**Composition Comments** Information for specific product ingredients as required by the WHMIS Regulations is listed. Refer to additional sections of this MSDS for our assessment of the potential hazards of this formulation

### Section 4. FIRST AID MEASURES

#### Description of first aid measures by routes of exposure

<b>Inhalation</b>	Move to fresh air. If breathing stops, provide artificial respiration. For breathing difficulties, oxygen may be necessary. Get medical attention immediately.
<b>Skin contact</b>	Remove contaminated clothing. Wash off with soap and water. Get medical attention if irritation develops and persists. Wash clothing separately before reuse.
<b>Eye contact</b>	Immediately flush eyes with plenty of low-pressure water for at least 30 minutes while removing contact lenses. Keep eyelids apart. Get medical attention immediately.
<b>Ingestion</b>	Do NOT induce vomiting! Do not feed anything by mouth to an unconscious or convulsive victim. Immediately contact a physician. Dilute contents of stomach using 2-8 fluid ounces (60-240ml) of milk or water.

#### Most important symptoms/ effects (acute and delayed)

<b>Symptoms</b>	Inhalation of dusts may cause irritation and/or burns to respiratory tract. Skin contact may cause moderate irritation to burns (dependant on length of exposure).
-----------------	--

#### Indication of immediate medical attention, and special treatment if needed

<b>Notes to Physician</b>	No special instructions
---------------------------	-------------------------

### Section 5. FIRE-FIGHTING MEASURES

#### Extinguishing Media

<b>Suitable extinguishing media</b>	Dry chemical, CO2, water spray or regular foam
<b>Unsuitable extinguishing media</b>	No information available.

#### Specific hazards arising from the Chemical

<b>Specific hazards arising from the Chemical</b>	No information available
<b>Hazardous Combustion Products</b>	Not available

#### Special protective equipment and precautions for firefighters

	equipment/instructions
	Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type).
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>General fire hazards</b>	No information available

## Section 6. ACCIDENTAL RELEASE MEASURES

### Procedures to be followed in case of a leak or a spill

<b>Personal precautions, protective equipment and emergency procedures</b>	Use personal protective equipment. Wear self-contained breathing apparatus and protective suit. Evacuate personnel to safe areas. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing.
<b>Methods and materials for containment and cleaning up</b>	Ventilate the area. Soak up with inert absorbent material. Place in waste disposal container. Flush area with water. Wet area may be slippery. Spread sand/grit.
<b>Environmental precautions</b>	Avoid discharge into drains, water courses or onto the ground.
<b>Other Information</b>	Not applicable.

## Section 7. HANDLING AND STORAGE

### Precautions for safe handling

**Handling procedures and equipment** Corrosive to the eyes Normal chemical handling.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Corrosives area.  
**Incompatible materials** -

## Section 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

### Control Parameters: Occupational exposure limits

**Biological limit values** No biological exposure limits noted for the ingredient(s).  
**Occupational exposure limits** No exposure limits for ingredients

### Appropriate engineering controls

Use under a chemical fume hood. Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.  
**Skin and body protection** Neoprene gloves. Wash off after each use. Replace as necessary  
**Respiratory protection** If air-purifying respirator use is appropriate, use any of the following particulate respirators: N95, N99, N100, R95, R99, R100, P95, P99 or P100.  
**General Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice

## Section 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

**Appearance**  
**Physical State** Solid  
**Colour** White  
**Odour** Odorless  
**Odour Threshold** Not applicable  
**pH** 2  
**Melting point & Freezing point** No data available  
**Initial boiling point & Boiling range** No information available.  
**Flash point** > 200 °F (> 93 °C) P-M(CC)

### Upper/lower flammability or explosive limits

**Flammability limit - lower (%)** No data available  
**Flammability limit – upper (%)** No data available  
**Vapor pressure** Not available.  
**Vapor density** (Air = 1)  
**Relative density** Not available.  
**Solubility (water)** < 5 %  
**Partition coefficient (n-octanol/water)** Not available.  
**Auto-ignition temperature** Not available.

Evaporation rate	< 1 (ether = 1)	Decomposition temperature	Not available.
Flammability (solid, gas)	No information available	Viscosity temperature	70 °F (21 °C)
Specific Gravity		Molecular Formula	
		Molecular Weight	

## Section 10. STABILITY AND REACTIVITY

<b>Reactivity hazards</b>	No information available
<b>Chemical stability</b>	
Conditions under which the product is chemically stable	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	
Conditions of reactivity	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	
Conditions under which the product is chemically unstable	Avoid contact with strong bases.
<b>Incompatible materials</b>	Strong oxidizing substances.
<b>Hazardous decomposition products</b>	Not available
<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur.

## Section 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

Inhalation	Dusts cause irritation to the upper respiratory tract.
Skin contact	Primary route of exposure Irritating to skin.
Eye contact	Corrosive.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

### Symptoms related to physical, chemical and toxicological characteristics

Symptoms	Inhalation of dusts may cause irritation and/or burns to respiratory tract. Skin contact may cause moderate irritation to burns (dependant on length of exposure).
----------	--

### Numerical Measures of Toxicity (such as Acute Toxicity Estimates)

#### Acute toxicity

#### Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
SULFITE INDICATOR, ACID-STARCH (CAS Mixture)	> 2000 mg/kg ( Rat )	> 2000 mg/kg (Rabbit )	Not listed
Sulfamic Acid (CAS 5329-14-6)	3160 mg/kg ( Rat )	Not listed	Not listed

<b>Toxicologically Synergistic Products</b>	No information available
---	--------------------------

### Delayed and immediate effects and also chronic effects from short- and long-term exposure

Skin corrosion/irritation	No information available
Sensitization	No information available
Reproductive toxicity	No information available.
Mutagenic Effects	No information available.
Developmental Effects	No information available.
Teratogenicity	No information available.
Specific target organ toxicity - single exposure	No information available
Specific target organ toxicity - repeated exposure	None known.
Aspiration hazard	No information available.
Symptoms/Effects, both acute and delayed	No information available
Endocrine Disruptor Information	No information available

<b>Other Adverse Effects</b>	The toxicological properties have not been fully investigated.. See actual entry in RTECS for complete information.
<b>Carcinogenicity</b>	No information available

## Section 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	No ecotoxicity data noted for the ingredient(s).
<b>Bioaccumulation / accumulation potential</b>	No information available
<b>Mobility in soil</b>	No data available.
<b>Persistence and degradability</b>	No information available.
<b>Other adverse effects.</b>	No information available.

## Section 13. DISPOSAL CONSIDERATIONS

<b>Waste Disposal Methods</b>	<p><b>Disposal instructions:</b> Dispose of contents/container in accordance with local/regional/national/international regulations.</p> <p><b>Waste from residues / unused products:</b> Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.</p> <p><b>Contaminated packaging:</b> Via an authorized waste disposal contractor to an approved waste disposal site, observing all local and national regulations.</p>
-------------------------------	--

## Section 14. TRANSPORT INFORMATION

### DOT

<b>UN number</b>	UN2967
<b>UN proper shipping name</b>	SULPHAMIC ACID
<b>Proper Technical Name</b>	
<b>Hazard Class</b>	8
<b>Packing group</b>	III
<b>Environmental hazards</b>	Not available
<b>Transportation in bulk, if applicable</b>	-
<b>Special Precautions</b>	-
<b>ERG code</b>	154



### TDG

<b>UN number</b>	UN2967
<b>UN proper shipping name</b>	SULPHAMIC ACID
<b>Proper Technical Name</b>	
<b>Hazard Class</b>	8
<b>Packing group</b>	III
<b>Environmental hazards</b>	Not available
<b>Transportation in bulk, if applicable</b>	-
<b>Special Precautions</b>	-



### IATA

<b>UN number</b>	UN2967
<b>UN proper shipping name</b>	SULPHAMIC ACID
<b>Proper Technical Name</b>	
<b>Hazard Class</b>	8
<b>Packing group</b>	III
<b>Environmental hazards</b>	Not available



Transportation in bulk, if applicable -

Special Precautions

**IMDG/IMO**

UN number	UN2967
UN proper shipping name	SULPHAMIC ACID
Proper Technical Name	
Hazard Class	8
Packing Group	III
Environmental hazards	No.
Transportation in bulk, if applicable	-
Special Precautions	Not available
EmS	Not available



**Section 15. REGULATORY INFORMATION**

International Inventories

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) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Canadian regulations This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

Mexican Regulations No information available

US federal regulations

Other Regulations

**HMIS**

HMIS	vii CODE	TRANSLATION
Health	3	Serious Hazard
Fire	0	Slight Hazard
Reactivity	0	Minimal Hazard
Special	NONE	No Special Hazard
Protective Equipment <sup>(1)</sup>	B	Goggles, Gloves

(1) refer to section 8 of SDS for additional protective equipment recommendations

**NFPA**

Health	Flammability	Instability	Physical hazards
3	1	0	N/A

**Section 16. OTHER INFORMATION INCLUDING DATE OF PREPARATION OR LAST REVISION**

**List of abbreviations**

- CAS: Chemical Abstract Service Registration Number
- TSRN indicates a Trade Secret Registry Number is used in place of the CAS number.
- ACGIH: American Conference of Governmental Industrial Hygienists
- NOEL: No Observed Effect Level
- STEL: Short Term Exposure Limit
- LC50: Lethal Concentration, 50%
- TWA: Time Weighted Average

BOD: Biochemical Oxygen Demand  
COD: Chemical Oxygen Demand  
TOC: Total Organic Carbon  
IATA: International Air Transport Association  
IMDG: International Maritime Dangerous Goods Code  
TLV: Threshold Limit Value  
LD50: Lethal Dose, 50%  
NFPA: National Fire Protection Association

Revision Date: N/A

**Revision Summary**

This document has been prepared to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200, as well as the Hazardous Products Regulations (HPR) to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

**Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**References:** No data available

---

**Legend:**

NA - Not Applicable w/w - weight/weight  
ND - Not Determined w/v - weight/volume  
NV - Not Available v/v - volume/volume

Ref.: CT 4/6/2017

**FOOTNOTES**

This information is furnished without warranty, representation, or license of any kind, except that it is accurate to the best of Bryce Laboratories' knowledge or obtained from sources believed by Bryce Laboratories to be accurate. Bryce Laboratories does not assume any legal responsibility for use or reliance upon same. Customers are encouraged to conduct their own tests. Before using any product, read its label.

**END OF SDS**