

Safety Data Sheet

AZURE B WORKING SOLUTION

Section 1 - Chemical Product and Company Identification

SDS Name: Azure B Working Solution

Catalog Numbers: SO-1059

Company Identification: ROWLEY BIOCHEMICAL
10 ELECTRONICS AVENUE
DANVERS, MA 01923

For information, call: 978-739-4883

Emergency Number: 800-424-9300

For CHEMTREC assistance, call: 800-424-9300

Section 2 - Hazards Identification

GHS Classifications Category

H303-Acute Oral Toxicity: 5

H313-Acute Dermal Toxicity: 5

H332-Acute Inhalation toxicity: 4

H315-Skin Corrosion/Skin Irritation: 2

H319-Serious Eye Damage/Irritation: 2A

H373-Specific Target Organ Toxicity, repeated exposure: 2

H225-Flammable Liquids: 2

H402-Hazardous to the aquatic environment, acute toxicity: 3

Pictogram or Hazard Symbols and Hazard statement



Signal word: Danger

Hazard statements:

H303-May be harmful if swallowed

H313-May be harmful in contact with skin

H332-Harmful if inhaled

H315-Causes skin irritation

H319-Causes serious eye irritation

H373-May cause damage to organs through prolonged or repeated exposure

H225-Highly flammable liquid and vapour

H402-Harmful to aquatic life

Precautionary Statements:

- P210** Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
- P233** Keep container tightly closed.
- P240** Ground/Bond container and receiving equipment.
- P241** Use explosion-proof electrical/ventilating/lighting/equipment.
- P242** Use only non-sparking tools.
- P243** Take precautionary measures against static discharge.
- P260** Do not breathe dust/fume/gas/mist/vapours/spray.
- P261** Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264** Wash thoroughly after handling.
- P271** Use only outdoors or in a well-ventilated area.
- P273** Avoid release to the environment.
- P280** Wear protective gloves. Wear eye protection/face protection.
- P302+P352** If on skin: Wash with plenty of soap and water.
- P303+P361+P353** If on skin (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+P340** If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305+P351+P338** If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P312** Call a Poison Center/doctor/physician if you feel unwell.
- P314** Get medical advice/attention if you feel unwell.
- P332+P313** If skin irritation occurs: Get medical advice/attention.
- P337+P313** If eye irritation persists: Get medical advice/attention.
- P362** Take off contaminated clothing and wash before reuse.
- P370+P378** In case of fire: use appropriate extinguishing media (water spray or fog, carbon dioxide, dry chemical).
- P403+P235** Store in a well-ventilated place. Keep cool.
- P501** Dispose of contents/container in accordance with all federal, state, and local regulations.

Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent
531-55-5	Azure B	0.24w/v
127-09-3	Sodium acetate	0.51w/v
67-19-7	Acetic Acid	0.22v/v
67-64-1	Acetone	12.9v/v
7732-18-5	Water	Balance

Section 4 - First Aid Measures

Eye Exposure: Corrosive to naked eye; in case of contact flush eyes well for 15 minutes, lifting the lower and upper eyelids occasionally. May cause permanent eye damage or blindness. Seek medical attention.

Dermal Exposure: Obtain medical attention: Corrosive to exposed skin. Flush skin well with water for 15 minutes, wash with soap and water. Remove affected clothing, get medical attention. May cause deep, penetrating burns.

Oral Exposure: Will cause severe burns to the mouth and severe and permanent damage to the digestive tract. Causes gastrointestinal burns and perforation of the digestive tract. Get Medical Attention immediately. Do not induce vomiting; give large quantities of water.

Inhalation Exposure: If inhaled, remove to fresh air. If not breathing give artificial respiration. Seek medical attention. Inhalation of vapors may cause coughing choking, inflammation of the nose, throat, and upper respiratory tract. In severe cases, may pulmonary edema, circulatory failure, and death.

Section 5 - Fire Fighting Measures

General Information: Containers can build up pressure if exposed to heat and/or fire. As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors may form an explosive mixture with air. Vapors can travel to a source of ignition and flash back. Will burn if involved in a fire. Flammable Liquid. Can release vapors that form explosive mixtures at temperatures above the flashpoint. Use water spray to keep fire-exposed containers cool. Containers may explode in the heat of a fire.

Extinguishing Media: For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. For large fires, use water spray, fog, or alcohol-resistant foam. Use water spray to cool fire-exposed containers. Water may be ineffective. Do NOT use straight streams of water.

CAS#67-64-1:

Flash Point: CLOSED CUP: 25^o C (77^o F) OPEN CUP: 28.9^oC (84^oF)

Flammable Limits: LOWER: 1.1% UPPER: 7%

Auto ignition Temperature: 527 deg C (980 deg F)

NFPA Rating: (estimated) Health: 2; Flammability: 2; Instability: 0

Section 6 – Accidental Release Measures

Procedure(s) of Personal Precaution(s):

Wear protective gear.

Methods for Cleaning up:

Absorb with sand, earth or vermiculite. Carefully sweep up and containerize for proper disposal.

Section 7 - Handling and Storage

Use care when handling. Wash thoroughly after handling. Store capped at room temperature. Keep away from incompatible materials. Protect from heat. Vapors heavier than air, may travel considerable distance and ignite or explode.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Personal Protective Equipment

Eyes: 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: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

Section 9 - Physical and Chemical Properties

Physical State: Liquid

Appearance: Dark blue

pH: N/A

Vapor Pressure: N/A

Vapor Density: N/A

Evaporation Rate: N/A

Specific Gravity: N/A

Viscosity: N/A

Boiling Point: N/A

Freezing/Melting Point: N/A

Solubility: Soluble.

Section 10 - Stability and Reactivity

Chemical Stability: Stable at room temperature in closed containers under normal storage and handling conditions.

Conditions to avoid: Excess heat, sunlight, confined spaces.

Incompatibilities with other materials: Reactive with oxidizing agents

Hazardous Decomposition Products: not known

Hazardous Polymerization: Will not occur

Section 11 - Toxicological Information

Acute:

CAS #67-64-1:

Inhalation rat LC50: 44000 mg/m³ 4 hours Mouse.

Oral Rat LD50: 3000 mg/kg.

Investigated as a tumorigen, mutagen, and reproductive effector.

Carcinogenicity: NTP: No **IARC:** No **Z List:** No **OSHA reg.** No

Special Remarks on other Toxic Effects on Humans: Material is irritating to mucous membranes and upper respiratory tract.

Section 12 - Ecological Information

Bioaccumulation: When released into the soil, this material is not expected to biodegrade. When released into the soil, this material may leach into groundwater.

CAS # 67-64-1: LC50: 5540 mg/l 96 hours (Trout) 8300 mg/l 96 hours (Bluegill).

Environmental Toxicity: This material is expected to be toxic to aquatic life.

Section 13 - Disposal Considerations

Disposal: Dispose of in accordance with all federal, state, and local regulations.

Section 14 – Transport Information

	US DOT	Canada TDG
Shipping Name:	ACETONE	ACETONE
Hazard Class:	3	3
UN Number:	UN1090	UN1090
Packing Group:	II	II

Section 15 - Regulatory Information

Symbol: F Flammable.

Risk and Safety phrases

Risk Phrases:

R11 Highly flammable.

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed

R36/38 Irritating to eyes and skin

R51 Toxic to aquatic organisms

R61 May cause harm to the unborn child

Safety Phrases:

S20/21 When using do not eat, drink or smoke

S2 Keep out of the reach of children

S 16 Keep away from sources of ignition - No smoking.

- S 33 Take precautionary measures against static discharges.
- S 7 Keep container tightly closed.
- S 9 Keep container in a well-ventilated place

Section 16 - Additional Information

SDS Creation Date: 12/14/17

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