

SPI Supplies Division

Structure Probe, Inc.

206 Garfield Ave., West Chester, PA 19380-4512 USA

Phone: 1-(610)-436-5400 Fax: 1-(610)-436-5755

sales@2spi.com

<http://www.2spi.com>

Manufacturer's CAGE: 1P573

Safety Data Sheet

Date Effective: March 27, 2018

SPI Catalog # 02565-AB

SPI-Chem™ Azure B 25GM

Section 1.1: Identification

Chemical Name/Synonyms Azure B; 3-Methylamino-7-dimethylaminophenolthiazin-5-ium chloride;
N,N,N'-Trimethylthionin; Methyleneazure;

Product or Trade Name Azure B Color Index: 52010

CAS #'s 531-55-5

Chemical Formula..... C₁₅H₁₆ClN₃S

Section 1.2: Relevant Uses/Restrictions

Chemical stain for microscopy.

Section 1.3: Supplier of the Safety Data Sheet

SPI Supplies Division

Structure Probe, Inc.

206 Garfield Ave., West Chester, PA 19380-4512 USA

Phone: 1-(610)-436-5400 Fax: 1-(610)-436-5755

sales@2spi.com

<http://www.2spi.com>

Manufacturer's CAGE: 1P573

Section 1.4: Emergency telephone number

Emergencies

Contacting CHEMTREC:

24 Hour Emergency Use Only #'s...

Worldwide phone: 1-(703)-741-5970

Toll-free phone: 1-(800)-424-9300 USA + Canada only

Section 2: Hazard Identification

2.1 Classification of the substance

2.2 GHS Label elements

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Not a hazardous substance or mixture.

GHS Classification in accordance with Regulation (EC) No. 1272/2008, Annex VI
Not a hazardous substance or mixture.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS: none

Hazardous Material Information System USA

Health 0
Fire Hazard 0
Reactivity 0
Personal Protection

NFPA Rating (estimated)

Health 0
Flammability..... 0
Reactivity 0

Section 3: Composition

3.1 Substances:

Azure B CAS # 531-55-5 EC # 208-511-2 C₁₅H₁₆ClN₃S MW=305.85
Color Index: 52010

Section 4: First Aid Measures

4.1 Description of first aid measures:

Inhalation:

If breathed in, move person into fresh air.
If not breathing, give artificial respiration.

Skin Contact:

In case of skin contact, wash off with soap and plenty of water.

Eye Contact:

In case of eye contact, flush eyes with plenty of water as a precaution.

Ingestion:

If swallowed, rinse mouth with water.
Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed:

The most important known symptoms and effects are described in Section 2.2 and/or Section 11I

4.3 Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

Section 5: Fire Fighting Measures

5.1 Extinguishing media:

Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

5.2 Special hazards arising from the substance or mixture:

Carbon oxides, Nitrogen oxides (NO_x), Sulfur oxides, Hydrogen chloride gas.

5.3 Advice for firefighters:

Wear self-contained breathing apparatus for fire-fighting if necessary.

5.4 Further information:

No further relevant information available.

Section 6: Accidental Release Measures

6.1 Personal precautions:

Avoid dust formation.

Avoid breathing vapors, mist, or gas.

6.2 Environmental precautions:

Do not let product enter drains.

6.3 Methods and material for containment and cleaning up:

Sweep up and shovel.

Keep in suitable, closed containers for disposal

6.4 Reference to other sections:

For personal protection see Section 8.

For disposal information see Section 13.

Section 7: Handling and Storage

7.1 Precautions for safe handling:

Provide appropriate exhaust ventilation at places where dust is formed.

Use normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities:

Keep container tightly closed in a dry and well-ventilated place.

Keep in a dry place.

7.3 Specific end uses:

Chemical stain for microscopy.

This material is not being offered for clinical or diagnostic applications, agricultural uses or for human or animal consumption.

Section 8: Exposure Controls and Personal Protection

8.1 Control parameter and Personal Protection:

Workplace exposure limits: Contains no substances with occupational exposure limit values.

Biological limit values: No data available.

8.2 Exposure controls:

8.2.1 Appropriate engineering controls: Use general good industrial hygiene practice.

8.2.2 Individual protection measures:

Eye/Face protection: Use equipment for eye protection tested and approved under appropriate government standards, such as NIOSH (US) or EN 166(EU).

Skin and body protection: Long sleeved clothing. Chemical resistant apron. Gloves.

Respiratory protection: Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95(US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards, such as NIOSH (US) or CEN (EU).

8.2.3 Environmental exposure controls:

Do not let product enter drains.

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties:

Appearance: dark green powder

Odor: no data available

Odor threshold: no data available

pH: no data available

Melting point/Freezing point: 205-210 °C (401-410 °F) – dec.

Boiling point/Boiling point range: no data available

Flash Point: no data available

Evaporation rate: no data available

Flammability (solid, gas): no data available

Upper/lower flammability or explosive limits: no data available

Vapor Pressure: no data available

Vapor density: no data available

Relative density: no data available

Solubility: no data available

Partition coefficient (n-octanol/water): no data available

Auto-ignition temperature: no data available

Decomposition temperature: no data available

Viscosity: no data available

Explosive properties: no data available

Oxidizing Properties: no data available

9.2 Other information: No further relevant information available.

Section 10: Stability and Reactivity

10.1 Reactivity: no data available

10.2 Chemical Stability: Stable under recommended storage conditions.

10.3 Possibility of Hazardous Reactions: no data available

10.4 Conditions to avoid: no data available

10.5 Incompatible materials: Strong oxidizing agents.

10.6 Hazardous decomposition products: Other decomposition products - no data available.
In the event of fire, see Section 5.

Section 11: Toxicological Information

Information on the likely routes of exposure:

11.1 Information on toxicological effects:

A. Acute toxicity:

Inhalation: no data available

Dermal: no data available

LD50 Intravenous – mouse – 65 mg/kg

B. Skin corrosion/irritation: no data available

C. Serious eye damage/irritation: no data available

D. Respiratory or skin sensitization: no data available

E. Germ cell mutagenicity:

Hamster, ovary: Cytogenetic analysis

F. Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

H. Reproductive toxicity: no data available

H. STOT-single exposure: no data available

I. STOT-repeated exposure: no data available

J. Aspiration hazard: no data available

ADDITIONAL INFORMATION:

RTECS: SO5550000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12: Ecological Information

12.1 Toxicity: no data available

12.2 Persistence and degradability: no data available

12.3 Bio-accumulative potential: no data available

12.4 Mobility in soil: no data available

12.5 Results of PBT and vPvB assessment: PBT/vPvB assessment not available as chemical safety assessment not required/ not conducted.

12.6 Other adverse effects: no data available

Section 13: Disposal Considerations

13.1 Waste treatment methods:

Product: Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging: Dispose of as unused product.

Section 14: Transport Information

DOT: Not dangerous goods.

IATA: Not dangerous goods.

IMDG: Not dangerous goods.

Section 15: Regulatory Information

15.1 Safety, health and environmental regulations/ legislation specific for the substance or mixture:

U.S. Government Regulations:

TSCA (Toxic Substances Control Act):

Substance is not listed.

SARA 302 Components:

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components:

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards:

No SARA Hazards.

U.S. State Regulations:

Massachusetts Right-To-Know Components:

No components are subject to the Massachusetts Right-to-Know Act.

Pennsylvania Right-To-Know Components:

CAS # 531-55-5 3-Methylamino-7-dimethylaminophenolthiazin-5-ium chloride.

New Jersey Right-To-Know Components:

CAS # 531-55-5 3-Methylamino-7-dimethylaminophenolthiazin-5-ium chloride

California Prop. 65 Components:

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

15.2 Chemical Safety Assessment: Has not been carried out.

Date of Preparation: 27 March 2018.

Abbreviations and acronyms

IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
CMRG: Chemical Manufacturer's Recommended Guidelines
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
AIHA: American Industrial Hygiene Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bio-accumulative and Toxicological
vPvB: very Persistent and very Bio-accumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety Health
ATE: Acute Toxicity Estimates
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
STEL: Short Term Exposure Limit
CEIL: Ceiling

Section 16: Other Information

Disclaimer of Liability:

Caution! Do not use SPI Supplies products or materials in applications involving implantation within the body; direct or indirect contact with the blood pathway; contact with bone, tissue, tissue fluid, or blood; or prolonged contact with mucous membranes. Products offered by SPI Supplies are not designed or manufactured for use in implantation in the human body or in contact with internal body fluids or tissues. SPI Supplies will not provide to customers making devices for such applications any notice, certification, or information necessary for such medical device use required by US FDA (Food and Drug Administration) regulation or any other statute. SPI Supplies and Structure Probe, Inc. make no representation, promise, express warranty or implied warranty

concerning the suitability of these materials for use in implantation in the human body or in contact with internal body tissues or fluids.

The information and recommendations set forth above are taken from sources believed to be accurate as of the date hereof, however SPI Supplies and Structure Probe, Inc. make no warranty with respect to the accuracy of the information or the suitability of the recommendations, and assume no liability to any user thereof. The information contained in this sheet does not constitute a hazard assessment and should not be used in place of the user's own assessment of work place risks as required by other health and safety legislation. Be aware of the Structure Probe, Inc. Copyright Policy. Structure Probe, Inc. grants a nonexclusive license to make unlimited copies of this safety sheet for internal use only. Quite obviously, this information would pertain only to this material when purchased from SPI Supplies as product from other sources, with other ingredients and impurity levels could have substantially different properties.