

SPI Supplies Division

Structure Probe, Inc.

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Manufacturer's CAGE: 1P573

Safety Data Sheet

Date Effective: September 18, 2017

SPI Catalog # 02563-AB, 02563-MB

SPI Chem™ Aniline Blue, Alcohol Soluble

Section 1.1: Identification

Chemical Name/Synonyms Aniline Blue / Acid Blue 22

Product or Trade Name SPI Chem™ Aniline Blue, Alcohol Soluble

CAS #'s 28631-66-5

Chemical Formula..... $C_{32}H_{25}N_3Na_2O_9S_3$

Molecular Weight 737.73

Section 1.2: Relevant Uses/Restrictions

Biological stain

Section 1.3: Supplier of the Safety Data Sheet

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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

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

Eye irritant (category 2)

Skin irritant (category 2)

STOT single exposure (category 3)

2.2 Label elements

Pictogram



Signal Word: Warning

Hazard statements:

- H315: Causes skin irritation.
- H319: Causes serious eye irritation.
- H335: May cause respiratory irritation.

Precautionary statements:

- P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.
- P302 + P352: IF ON SKIN: Wash with plenty of water.
- P304 + P340: IF INHALED: Remove person to fresh air and keep 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 if you feel unwell.
- P321: Specific treatment (see instructions on this label).

Classification under CHIP: Xi: R36/37/38

Label elements under CHIP:

Hazard symbols: Irritant



Risk phrases:

R36/37/38: Irritating to eyes, respiratory system, and skin.

Safety phrases:

- S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S60: This material and its container must be disposed of as hazardous waste.

Classification under CLP: STOT SE 3, H335; Eye irritant 2, H319; Skin irritant 2, H315

Most important adverse effects: Irritating to eyes, respiratory system, and skin.

2.3 Other Hazards:

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition

3.1 Substances:

Chemical identity: Aniline Blue

CAS #: 28631-66-5

100 %

Section 4: First Aid Measures

4.1 Description of first aid measures:

Skin contact: Remove all contaminated clothes and foot wear immediately unless stuck to skin.
Wash immediately with plenty of soap and water. If symptoms develop, seek medical attention.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Inhalation: Remove casualty from exposure, ensuring one's own safety whilst doing so. Consult a doctor.

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

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: there may be irritation and redness. The eyes may water profusely.

Ingestion: Wash out mouth with water. Consult a doctor.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

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

Eye bathing equipment should be available on the premises.

Section 5: Fire Fighting Measures

5.1 Extinguishing media:

Suitable extinguishing media for the surrounding fire should be used. Carbon dioxide. Dry chemical powder. Foam.

5.2 Special hazards arising from the substance or mixture:

In combustion emits toxic fumes.

5.3 Advice for firefighters:

Wear self-contained breathing apparatus.

Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental Release Measures

6.1 Personal precautions:

Refer to Section 8 of SDS for personal protection details.

Ensure adequate ventilation.

Avoid breathing vapors, mist, or gas.

Avoid dust formation.

Avoid breathing dust.

6.2 Environmental precautions:

Do not discharge into drains or rivers.

6.3 Methods and material for containment and cleaning up:

Vacuum or sweep up material and place into a suitable disposal container.

Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4 Reference to other sections:

See Section 8 for personal protection details.

See Section 13 for disposal information.

Section 7: Handling and Storage

7.1 Precautions for safe handling:

Ensure there is sufficient ventilation of the area.

Avoid the formation or spread of mists in the air.

Avoid the formation or spread of dust in the air.

Wear protective clothing.

Wear personal protective equipment.

7.2 Conditions for safe storage, including any incompatibilities:

Store in a cool, well ventilated area.

Keep container tightly closed.

Store in a cool, dry place.

Suitable packaging: Must only be kept in original packaging.

7.3 Specific end uses:

Biological stain

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: No data available.

Biological limit values: No data available.

DNEL (Derived No-Effect Levels) / PNEC (Predicted No-Effect Concentration): No data available.

8.2 Exposure controls:

8.2.1 Appropriate engineering controls:

Ensure there is sufficient ventilation of the area.

8.2.2 Individual protection measures:

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency. Respiratory protective device with particle filter.

Hand protection: Compatible chemical-resistant gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves.

Eye protection: Ensure eye bath is to hand. Safety glasses with side-shields. Safety glasses with side shields conforming to EN166.

Skin protection: Protective clothing.

8.2.3 Environmental exposure controls: No further relevant information available.

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties:

Appearance: Blue powder

Odor: Characteristic odor

Odor threshold: No data available

pH: No data available

Melting point/Freezing point: No data available

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 data available

Section 10: Stability and Reactivity

10.1 Reactivity:

Stable under recommended transport or storage conditions.

10.2 Chemical Stability:

Stable under normal conditions.

10.3 Possibility of Hazardous Reactions:

Decomposition may occur on exposure to conditions or materials listed below.

10.4 Conditions to avoid:

Direct sunlight. Moist air. Humidity.

10.5 Incompatible materials:

Strong acids. Strong bases. Oxidizing agents. Reducing agents.

10.6 Hazardous decomposition products

In combustion, emits toxic fumes.

Section 11: Toxicological Information

Information on the likely routes of exposure

11.1 Information on toxicological effects:

A. Acute toxicity:

No data available.

B. Skin corrosion/irritation:

Skin corrosion/irritation: Dermal: Hazardous (calculated)

C. Serious eye damage/irritation:

Serious eye damage/irritation: Optical: Hazardous (calculated)

D. Respiratory: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.

E. Germ cell mutagenicity:

No data available.

F. Carcinogenicity:

No data available.

G. 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.

K. Delayed / immediate effects:

Immediate effects can be expected after short-term exposure.

Section 12: Ecological Information

12.1 Toxicity:

Eco-toxicity values: 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: Is product is not identified as a PBT/vPvB substance.

12.6 Other adverse effects: No data available.

Section 13: Disposal Considerations

13.1 Waste treatment methods:

Disposal operations: Transfer to a suitable container and arrange for collection by specialized disposal company.

Disposal of packaging: Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.

NB: Dispose of in accordance with all national, state, and local regulations for disposal.

Section 14: Transport Information

DOT: Not regulated for transport.

IATA: Not regulated for transport.

IMDG: Not regulated for transport.

Section 15: Regulatory Information

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

US Federal Regulations:

TSCA: All components are on the TSCA Inventory List.

TSCA Section 12(b): Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4): Not listed

SARA 304 Emergency release notification: Not regulated.

SARA 311/312 Hazardous Chemicals: No

SARA 313: Not regulated

OSHA Hazard Categories: Not regulated.

Clean Air Act (CAA) Sections 112 and 112r: Not regulated

State Right-to-Know Lists: Not listed by Massachusetts, New Jersey, Pennsylvania, Rhode Island

California Prop. 65: This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. Under California Prop. 65.

15.2 Chemical Safety Assessment: Has not been carried out.

Date of Preparation: 18 September 2017.

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

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 of fluids.

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