

SPI Supplies Division

Structure Probe, Inc.

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Manufacturer's CAGE: 1P573

Safety Data Sheet

Date Effective: March 13, 2018

SPI Catalog # 02560-AB

SPI-Chem™ Sudan Black B

Section 1.1: Identification

Chemical Name/Synonyms Sudan Black B

Product or Trade Name SPI-Chem™ Sudan Black B

CAS #'s 4197-25-5

Chemical Formula..... C₂₉H₂₄N₆

Section 1.2: Relevant Uses/Restrictions

Chemical stain for microscopy.

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)

Causes serious eye irritation (category 2)

2.2 GHS Label elements

Pictogram:



Signal word: Warning

Hazard Statements:

H319 Causes serious eye irritation.

Precautionary Statements:

P264 Wash thoroughly after handling.

P305 + P351 + P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P402 + P403 + P404 Store in a dry, well-ventilated place in a closed container.

P501 Dispose of contents/ container in accordance with local/ regional/ national/ international regulations.

2.3 Other Hazards

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

Hazardous Material Information System USA

Health 1
Fire Hazard 0
Reactivity 0
Personal Protection

NFPA Rating (estimated)

Health 1
Flammability 0
Reactivity 0

Section 3: Composition

3.1 Substances:

Sudan Black B CAS # 4197-25-5 EC No. 224-087-1 C₂₉H₂₄N₆ MW=456.54

Section 4: First Aid Measures

4.1 Description of first aid measures:

Inhalation: After inhalation, supply fresh air; consult doctor in case of complaints.

Skin Contact: Generally the product does not irritate the skin.

Eye Contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

Ingestion: After swallowing, if symptoms persist consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed: No further relevant information available.

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: CO₂, extinguishing powder, or water spray. Fight larger fires with water spray or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture: No further relevant information available.

5.3 Advice for firefighters:

Special protective equipment and precautions for firefighters: No special measures required.

Section 6: Accidental Release Measures

6.1 Personal precautions: Not required.

6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up: Pick up mechanically.

6.4 Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

Section 7: Handling and Storage

7.1 Precautions for safe handling:

Protective measures: No special precautions are necessary if used correctly.

Advice on general hygiene conditions: Wash thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities: Store in a dry, well-ventilated area in a closed container.

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: Not required.

Biological limit values: Not required.

8.2 Exposure controls:

8.2.1 Appropriate engineering controls: No further relevant information available.

8.2.2 Individual protection measures:

Keep away from foodstuffs, beverages, and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.
Avoid contact with the skin.

Breathing equipment: Not required.

Eye protection: Tightly sealed goggles.

Hand protection: Glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material must be based on the penetration times, rates of diffusion, and the degradation of the glove material. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

8.2.3 Environmental exposure controls: Do not allow to enter sewers/ surface or ground water.

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties:

Appearance: Black powder

Odor: Characteristic

Odor threshold: Not determined

pH: Not applicable

Melting point/Freezing point: 120-124 °C (248-255 °F)

Boiling point/Boiling point range: Not determined

Flash Point: Not applicable

Evaporation rate: Not applicable

Flammability (solid, gas): Product is not flammable.

Upper/lower flammability or explosive limits: Not determined

Vapor Pressure: Not applicable

Vapor density: Not applicable

Relative density: Not determined

Density: 0.25 gm/cm³ (2.086 lbs/gal)

Solubility: Insoluble in water.

Partition coefficient (n-octanol/water): Not determined

Auto-ignition temperature: Not determined

Decomposition temperature: Not determined

Viscosity: Not applicable

Explosive properties: Product does not present an explosion hazard.

Oxidizing Properties: Not applicable

Organic solvents: 0.0 %

Solids content: 100.0 %

9.2 Other information: No further relevant information available.

Section 10: Stability and Reactivity

10.1 Reactivity: No relevant data available.

10.2 Chemical Stability: Stable under recommended storage conditions.

10.3 Possibility of Hazardous Reactions: No dangerous reactions known.

10.4 Conditions to avoid: No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: No decomposition if used according to specifications.

Section 11: Toxicological Information

Information on the likely routes of exposure:

11.1 Information on toxicological effects:

A. Acute toxicity: No relevant information available.

B. Skin corrosion/irritation: No irritating effect.

C. Serious eye damage/irritation: Causes eye irritation.

D. Respiratory of skin sensitization: No sensitizing effects known.

E. Germ cell mutagenicity: No relevant information available.

F. Carcinogenicity

IARC (International Agency for Research on Cancer): Substance is not listed.

NTP (National Toxicology Program): Substance is not listed.

OSHA-CA (Occupational Safety Health Administration): Substance is not listed.

G. Reproductive toxicity: No relevant information available.

H. STOT-single exposure: No relevant information available.

I. STOT-repeated exposure: No relevant information available.

J. Aspiration hazard: No relevant information available.

Section 12: Ecological Information

12.1 Toxicity: No further relevant information available.

12.2 Persistence and degradability: No further relevant information available.

12.3 Bio-accumulative potential: No further relevant information available.

12.4 Mobility in soil: No further relevant information available.

12.5 Results of PBT and vPvB assessment: Not applicable.

12.6 Other adverse effects: No further relevant information available.

Section 13: Disposal Considerations

13.1 Waste treatment methods:

Recommendation:

Must not be disposed of together with household garbage.
Do not allow product to reach sewage system.

Uncleaned packagings: Disposal must be made according to official regulations.

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 listed.

SARA Section 302 Components: Substance is not listed.

SARA Section 311/312 Hazards: None

SARA Section 355 (extremely hazardous substances): Substance is not listed.

SARA Section 313 (Specific toxic chemical listings): Substance is not listed.

California Prop. 65: This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

ACGIH TLV (Threshold Limit Values): Substance is not listed.

EPA (Environmental Protection Agency): Substance is not listed.

NIOSH-CA (National Institute for Occupational Safety and Health): Substance is not listed.

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 identified as a carcinogen or potential carcinogen by OSHA.

State Right-to-Know Components:

CAS # 4197-25-5 is on the New Jersey and Pennsylvania Right-to-Know lists.

CANADA:

DSL: CAS # 4197-25-5 is listed on the DSL list.

NDSL: CAS # 4197-25-5 is not listed on the NDSL list.

WHMIS: D2B

15.2 Chemical Safety Assessment: A chemical safety assessment has not been carried out.

Date of preparation: 13 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.

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