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PATENT BLUE VF

Material Safety Data Sheet

1. PRODUCT IDENTIFICATION:

Synonyms: Disulphine Blue; Sulphan Blue; Acid Blue 1; C.I. 42045

CAS No.: 129-17-9

Formula Weight: 566.68

Chemical Formula: C₂₇H₃₁N₂NaO₆S₂

2.COMPOSITION, INFORMATION ON INGREDIENTS:

<u>Chemical Name</u>	<u>CAS No.</u>	<u>Percent</u>	<u>Hazardous</u>
Patent Blue VF	129-17-9	100%	No

3.HAZARDS IDENTIFICATION:

Emergency Overview

Appearance: Dark bluish-green powder. **CAUTION!** May cause eye and skin irritation. May cause respiratory and digestive tract irritation.

Target Organs:

Potential Health Effects

Eyes: May cause eye irritation.

Skin: Causes skin irritation. May cause allergic skin reaction.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May be harmful if swallowed.

Inhalation: Inhalation of dust may cause respiratory tract irritation.

Chronic: Not available.

4. FIRST AID MEASURES:

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately. **Do NOT** use an eye ointment.

Skin: In case of contact, flush skin with plenty of water for at least 15 minutes while removing contaminated clothes and shoes. Get medical attention if irritation develops or persists.

Ingestion: If victim is conscious and alert, give 2-4 cupfuls water or milk to drink. **Do NOT** induce vomiting, **NEVER** give anything by mouth to unconscious person. Get medical attention if irritation or symptoms appear.

Inhalation: Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

5.FIRE FIGHTING MEASURES:

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH approved or equivalent, and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media: In case of fire use water spray to cool fire exposed containers. Use water spray, dry chemical, carbon dioxide, or chemical foam.

Flash Point: Not applicable

Auto-ignition Temperature: Not applicable.

Explosion Limits, Lower: Not available.

Upper: Not available.

NFPA Rating: (estimated) Health:1; Flammability: 0; Instability: 0.

6. ACCIDENTAL RELEASE MEASURES:

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Sweep up and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment Section. Provide ventilation.

7.HANDLING AND STORAGE:

Handling: Wash thoroughly after handling. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Storage: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

8.EXPOSURE CONTROLS, PERSONAL PROTECTION:

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

<u>Chemical Name</u>	<u>ACGIH</u>	<u>NIOSH</u>	<u>OSHA-Final PEL's</u>
Patent Blue VF	None listed	None listed	None listed

OSHA Vacated PELs: Patent Blue VF: No OSHA Vacated PELs are listed for this chemical.

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 minimize contact with skin.

Respirators: Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard En 149 approved respirator when necessary.

9.PHYSICAL AND CHEMICAL PROPERTIES:

Physical State: Powder

Appearance: Dark bluish-green

Odor: Not available.

Freezing/Melting Point: Not available.

pH: 9.5 (10 g/l aq. sol.)

Vapor Pressure (mm Hg): Not available

Vapor Density (Air = 1): Not available.

Evaporation Rate: Not available.

Viscosity: Not available.

Boiling Point: Not available.

Decomposition Temperature: > 300° C

Solubility: In water 1 g/20ml (20°C)

Specific Gravity/Density: Not available.

10. STABILITY AND REACTIVITY:

Chemical Stability: Stable under normal temperatures and handling conditions.

Conditions to Avoid: Incompatible materials, exposure to air or moisture over prolonged periods.

Incompatibilities with Other Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Nitrogen oxides, carbon monoxide, oxides of sulfur, carbon dioxide.

Hazardous Polymerization: Has not been reported.

11. TOXICOLOGICAL INFORMATION:

RTECS: CAS# 129-17-9: BP6830000

LD50/LC50 CAS# 129-17-9: Not available.

Carcinogenicity: CAS# 129-17-9: Not listed by ACGIH, IARC, NTP, or OSHA.

Epidemiology: Not available.

Teratogenicity: Not available.

Reproductive Effects: Not available.

Neurotoxicity: Not available.

Mutagenicity: Not available.

Other Studies: See actual entry in RTECS for complete information.

12. ECOLOGICAL INFORMATION:

Environmental Fate: No data available.

Environmental Toxicity: No data available.

13. DISPOSAL CONSIDERATIONS:

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3.

Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed

RCRA U-Series: None listed.

14. TRANSPORT INFORMATION:

Not regulated.

15. REGULATORY INFORMATION:

US FEDERAL

TSCA CAS# 129-17-9 is listed on the TSCA inventory.

Health & Safety Reporting List None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules None of the chemical in this product are under a Chemical Test Rule.

Section 12b None of the chemicals in this product are under TSCA Section 12b

TSCA Significant New Use Rule None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances None of the chemicals in this product have a TPQ.

Section 313 No chemicals are reportable under Section 313

Clean Air Act This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.
Clean Water Act None of the chemical in this product are listed as Hazardous Substances under CWA. None of the chemical in this product are listed as Priority Substance under CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA
OSHA None of the chemicals in this product are considered highly hazardous by OSHA.
STATE CAS# 129-17-9 can be found on the following state right to know lists: California.
California No Significant Risk Level: None of the chemicals in this product are listed.

EUROPEAN/INTERNATIONAL REGULATIONS
European Labeling in Accordance with EC Directives

Hazardous Symbols Not available.

Risk Phrases: Not available.

Safety Phrases: S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection) CAS# 129-17-9: No information available.

Canada – DSL/NDSL CAS# 129-17-9 is listed on Canada’s DSL List.

Canada – WHMIS This product has a WHMIS classification of D2A.

Canadian Ingredient Disclosure List CAS# 12-17-9 is not listed on Canada’s Ingredient List.

16. DISCLAIMER INFORMATION:

DISCLAIMER:

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