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NILE BLUE CHLORIDE

Material Safety Data Sheet

1. PRODUCT IDENTIFICATION:

Synonyms: 5H-Benzo (a) phenazoxazine, 9-diethylamino-5-imino-, hydrochloride * Benzo (a) phenazoxonium, 5-amino-9-(diethylamino)-, chloride * C.I. 51180 * C.I. Basic Blue 12 * Cresol Fast Violet * Cresyl Fast Violet * Nile Blue * Nile Blue A * Nile Blue AX * Nile Blue Base * Nile Blue chloride * Nile Blue hydrochloride.

CAS No.: 2381-85-3.

Molecular Weight: 353.85

Chemical Formula: C₂₀H₂₀N₃O.Cl

2. COMPOSITION / INFORMATION ON INGREDIENTS:

<u>Chemical Name</u>	<u>CAS No.</u>	<u>Percent</u>	<u>Hazardous</u>
Nile Blue Chloride	2381-85-3	100%	No.

3. HAZARDS IDENTIFICATION:

Emergency Overview

Appearance: Deep green powder. **CAUTION!** May cause eye and skin irritation. May cause respiratory and digestive tract irritation. The toxicological properties of this material have not been fully investigated.

Target Organs: No data found.

Potential Health Effects

Eye: May cause eye irritation.

Skin: May cause skin irritation.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea. The toxicological properties of this substance have not been fully investigated.

Inhalation: May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.

Chronic: No information found.

4. FIRST AID MEASURES:

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation develops, get medical aid.

Skin: Get medical aid. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion: If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Inhalation: Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician: Treat symptomatically and supportively.

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: Use water spray, dry chemical carbon dioxide, or appropriate foam.

Flash Point: Not applicable.

Autoignition 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: Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment Section. Avoid generating dusty conditions. Provide ventilation.

7. HANDLING AND STORAGE:

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse.

Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

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

Exposure Limits

Chemical Name: Nile Blue Chloride

ACGIH: None listed.

NIOSH: None listed.

OSHA - Final PELs: None listed.

OSHA Vacated PELs: Nile Blue Chloride: 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 clothing to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

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: Solid.

Appearance: Deep green.

Form: Powder

Odor: None reported.

pH: Not available.

Vapor Pressure: Not available.

Vapor Density: Not available.

Evaporation Rate: Not available.

Viscosity: Not available.
Boiling Point: Not available.
Freezing/Melting Point: Not available.
Decomposition Temperature: Not available.
Solubility: Not available.
Specific Gravity/Density: Not available.

10. STABILITY AND REACTIVITY:

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

Incompatibilities with Other Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Nitrogen oxides, carbon monoxide, carbon dioxide, hydrogen chloride gas.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION:

CAS# 2381-85-3

LD50/LC50: Not available.

Carcinogenicity: CAS# 2381-85-3: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Epidemiology: May cause skin irritation. May be harmful if absorbed through the skin. May cause eye irritation. Inhalation: Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled. May be harmful if swallowed.

Teratogenicity: No information found.

Reproductive Effects: No information found.

Neurotoxicity: No information found.

Mutagenicity: No information found.

12. ECOLOGICAL INFORMATION:

No information 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 REGULATIONS:

Non-Hazardous for transport. Non-Hazardous for Air transport.

15. REGULATORY INFORMATION:

US FEDERAL

TSCA CAS# 2381-85-3 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 chemicals in this product are under a Chemical Test Rule.

Section 12b None of the chemicals are listed under TSCA Section 12b.

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

SARA

Section 302 (RQ) & (TPQ) None of the chemicals in these products have a RQ or 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 or Class 2 Ozone depleters.

Clean Water Act: None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the 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 No information available.

EUROPEAN/INTERNATIONAL REGULATIONS

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available.

Risk Phrases: Not available

Safety Phrases: S 22-24/25 Do not breathe dust. Avoid contact with skin and eyes.

WGK (water Danger/Protection) CAS# 2381-85-3: No information available.

Canada - DSL/NDSL CAS# 2381-85-3 is listed on Canada's DSL List.

Canada - WHMIS WHMIS: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

Canadian Ingredient Disclosure List

Exposure Limits

16. DISCLAIMER INFORMATION:

DISCLAIMER:

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