MATERIAL SAFETY DATA SHEET

Manufacturer:
AtLasta SPECIALTY INK, Inc.
4600 South Square Dr.
High Ridge, MO 63049
(636) 677-5353
email: Sales@inkmaker.net

HAZARD RATINGS

Minimal 0
Slight 1
Moderate 2
Serious 3
Severe 4

HEALTH	**0**
FLAMMABILITY	**0**
REACTIVITY	**0**

Date of Revision: 10-08-07

Section 1 - Product and Company Information

Product Name FD & C Blue Denaturant (Powder and Crystals)

Section 2 - Composition/Information on Ingredient

Substance Name FD & C Blue No. 1 CAS # 3844-45-9
C.I. ACID BLUE 9, DISODIUM SALT

Formula $C_{37}H_{34}N_2O_9S_3.2Na$

Also Known As: Aizen Food Blue No. 2 * 1206 Blue * Blue 1206 * Blue FCF * Brilliant Blue FCD No. 1 * Brilliant Blue FCF Supra * Canacert Brilliant Blue FCF * C.I. Acid Blue 9, disodium salt * C.I. Food Blue 2 * Cosmetic Blue Lake * D & C Blue No. 1 * Dolkwal Brilliant Blue * E 313 (dye) * FD and C Blue 1 * FD and C Blue No. 1 * FD & C Blue No. 1 * Fenazo Blue XI * Food Blue 1 * Food Blue 2 * Food Blue Dye No. 1 * Hexacol Brilliant Blue A * Intracid Pure Blue L * Japan Blue 1 * Japan Blue No. 1 * Merantine Blue EG * Modr Brilantni FCF (Czech) * Modr Kysela 9 (Czech) * Modr Potravinarska 2 (Czech) * Usacert Blue No. 1 * Usacert FD and C Blue No. 1

RTECS Number: BQ4725000

Section 3 - Hazards Identification

HMIS RATING
- HEALTH: 0
- FLAMMABILITY: 0
- REACTIVITY: 0

NFPA RATING
- HEALTH: 0
- FLAMMABILITY: 0
- REACTIVITY: 0

For additional information on toxicity, please refer to Section 11.

Section 4 - First Aid Measures

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

INHALATION EXPOSURE
If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

DERMAL EXPOSURE
In case of contact, immediately wash skin with soap and copious amounts of water.

EYE EXPOSURE
In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Section 5 - Fire Fighting Measures

FLASH POINT N/A AUTOIGNITION TEMP N/A

FLAMMABILITY N/A

EXTINGUISHING MEDIA
Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

FIREFIGHTING
Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Specific Hazard(s): Emits toxic fumes under fire conditions.

Section 6 - Accidental Release Measures

PROCEDURE(S) OF PERSONAL PRECAUTION(S)
Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust.

METHODS FOR CLEANING UP
Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Section 7 - Handling and Storage

HANDLING User Exposure: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

STORAGE
Suitable: Keep tightly closed.

Section 8 - Exposure Controls / PPE

ENGINEERING CONTROLS
Safety shower and eye bath. Mechanical exhaust required.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory: Wear dust mask.
Hand: Protective gloves.
Eye: Chemical safety goggles.

GENERAL HYGIENE MEASURES
Wash thoroughly after handling.

Section 9 - Physical/Chemical Properties

Appearance: Physical State: Solid

Property	Value	At Temperature or Pressure
Molecular Weight	792.86 AMU	
pH	N/A	
BP/BP Range	N/A	
MP/MP Range	283 °C	
Freezing Point	N/A	
Vapor Pressure	N/A	
Vapor Density	N/A	
Saturated Vapor Conc.	N/A	
SG/Density	N/A	
Bulk Density	N/A	
Odor Threshold	N/A	
Volatile%	N/A	
VOC Content	N/A	
Water Content	N/A	
Solvent Content	N/A	
Evaporation Rate	N/A	
Viscosity	N/A	
Surface Tension	N/A	
Partition Coefficient	N/A	
Decomposition Temp.	N/A	
Flash Point	N/A	

Explosion Limits	N/A
Flammability	N/A
Autoignition Temp	N/A
Refractive Index	N/A
Optical Rotation	N/A
Miscellaneous Data	N/A
Solubility	N/A

N/A = not available

Section 10 - Stability and Reactivity

STABILITY

Stable: Stable.
Materials to Avoid: Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide,Nitrogen oxides, Sulfur oxides.

HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

Section 11 - Toxicological Information

ROUTE OF EXPOSURE

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

SIGNS AND SYMPTOMS OF EXPOSURE

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

TOXICITY DATA

Subcutaneous
Mouse
4600 MG/KG
LD50
Remarks: Behavioral:Convulsions or effect on seizure threshold.

EXPOSURE - CARCINOGEN

Result: This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC,ACGIH,
NTP, or EPA classification.

Species: Rat
Route of Application: Subcutaneous
Dose: 5500 MG/KG
Exposure Time: 97W
Frequency: I
Result: Tumorigenic:Neoplastic by RTECS criteria. Tumorigenic:Tumors at site or application.

Species: Rat
Route of Application: Parenteral
Dose: 4580 MG/KG
Exposure Time: 62W
Frequency: I
Result: Tumorigenic:Equivocal tumorigenic agent by RTECS criteria. Gastrointestinal:Tumors. Blood:Lymphomas including Hodgkin's disease.

Species: Rat
Route of Application: Subcutaneous
Dose: 2 GM/KG
Exposure Time: 94W
Frequency: I
Result: Tumorigenic:Equivocal tumorigenic agent by RTECS criteria. Tumorigenic:Tumors at site or application.

IARC CARCINOGEN LIST

Rating: Group 3

CHRONIC EXPOSURE - MUTAGEN

Species: Hamster
Dose: 4400 MG/L
Cell Type: lung
Mutation test: Cytogenetic analysis

Section 12 - Ecological Information

No data available.

Section 13 - Disposal Considerations

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

Section 14 - Transport Information

DOT
Proper Shipping Name: None
Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA
Non-Hazardous for Air Transport: Non-hazardous for air transport.

Section 15 - Regulatory Information

UNITED STATES REGULATORY INFORMATION
SARA LISTED: No
TSCA INVENTORY ITEM: Yes Yes

CANADA REGULATORY INFORMATION
WHMIS Classification: 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.
DSL: Yes
NDSL: No

Section 16 - Other Information

WARRANTY
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. AtLasta Ink Inc., not be held liable for any damage resulting from handling or contact with the above product.