



SAFETY DATA SHEET

POWER BLUE CARTRIDGE & DE FILTER CLEANER

FILE NO.: SDS-0001
MSDS DATE: 12/16/2015

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: POWER BLUE CARTRIDGE & DE FILTER CLEANER
SYNONYMS: POWER BLUE
PRODUCT CODES: NA

MANUFACTURER: Jack's Magic
DIVISION: FL
ADDRESS: Largo, FL

EMERGENCY PHONE: 727-560-3177
CHEMTREC PHONE: 800-424-9300
OTHER CALLS: 727-504-0400
FAX PHONE: 727-532-0250

CHEMICAL NAME: Power Blue
CHEMICAL FAMILY: Chelating Agents
CHEMICAL FORMULA: Proprietary

PRODUCT USE: Pool and Spa
PREPARED BY: J. Virgilio

SECTION 1 NOTES: NA

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: This product is a bluish color liquid. It may cause irritation to the eyes and skin. If ingested, it may cause nausea, headache, and a physician should be consulted if ingested or if eye irritation persists.

ROUTES OF ENTRY: EYES, SKIN CONTACT, INHALATION, INGESTION.

POTENTIAL HEALTH EFFECTS

ACUTE HEALTH HAZARDS: Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (corrosive), of eye contact (corrosive). The amount of tissue damage depends on the length of contact time. Eye contact can result in corneal damage or blindness. Skin contact can produce minor inflammation and blistering. Inhalation of mist can produce irritation to gastro-intestinal or respiratory tract, characterized by slight burning, sneezing and coughing. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

CHRONIC HEALTH HAZARDS:

CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

The substance can be toxic to mucous membranes, skin, eyes. Repeated skin exposure can produce local skin irritation, or dermatitis. Repeated inhalation of vapor/mist can produce varying degree of respiratory irritation or lung damage.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None Known

Components of this product contain no known Carcinogenic agents.

SECTION 2 NOTES: NA



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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS:

<u>CAS NO.</u>	<u>% WT</u>
Component A	1-15%
Component B	1-15%
Component C	1-15%
Inert Ingredients	Balance

SECTION 3 NOTES: Specific identification & percentage of composition is being withheld as a trade secret. Proprietary Formulation

SECTION 4: FIRST AID MEASURES

EYES: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.

SKIN: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. If irritation persists seek medical attention.

INGESTION: Do not induce vomiting unless directed to do so by medical professional. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration (CPR). If breathing is difficult, give oxygen. Get attention immediately.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: No further information Available.

SECTION 4 NOTES: NA

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, UPPER: Not Flammable
(% BY VOLUME) LOWER: Not Flammable

FLASH POINT: NA

METHOD USED: NA

AUTOIGNITION TEMPERATURE: Not Applicable

HMIS HAZARD CLASSIFICATION

HEALTH: 3

FLAMMABILITY: 0

REACTIVITY: 0

PROTECTION: 0

EXTINGUISHING MEDIA: Non-Flammable, but you may use Dry chemical, Carbon dioxide (CO₂), or Water Spray when fighting fire where this product is present.

SPECIAL FIRE FIGHTING PROCEDURES: NA

UNUSUAL FIRE AND EXPLOSION HAZARDS: NA

HAZARDOUS DECOMPOSITION PRODUCTS: None Known

SECTION 5 NOTES: NA



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SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: For personal protection see section 8. Persons not wearing appropriate protective gear should be excluded from area of spill until clean-up has been completed.

ENVIRONMENTAL PRECAUTIONS: Prevent spreading concentrate solution over a wide area (e.g. by containment or oil barriers). Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

METHODS FOR CLEAN-UP: Keep in suitable, closed containers for disposal. Soak up with inert absorbent material. (e.g. sand, silica gel, acid binder, universal binder, sawdust, clay-bases granular).

SECTION 6 NOTES: Comply with all applicable federal, state, and local regulations for clean-up and disposal methods.

SECTION 7: HANDLING AND STORAGE

STORAGE: Store in a cool, dry, ventilated area. Keep from freezing or extreme heats (over 95 degree F)

OTHER PRECAUTIONS: Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid and/or solid), all hazard precautions given in the data sheet must be observed.

SECTION 7 NOTES: NA

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

GENERAL ADVICE: These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

VENTILATION: Always use this material in a well ventilated area.

RESPIRATORY PROTECTION: A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

EYE PROTECTION: Wear chemical splash goggles or face shield when there is potential for exposure of the eyes or face to liquid, vapor or mist. Maintain eye wash station in immediate work area.

SKIN & BODY PROTECTION: Wear appropriate chemical impervious clothing and boots whenever there is potential for skin contact with product. Launder clothing before reuse. Maintain safety shower at all locations where skin contact is imminent. Contact your local safety equipment supplier to assist the facility in determining proper selection of personal protective equipment for the applications/operations present at your facility. Wear resistant gloves (consult your safety equipment supplier). Discard gloves that show tears, pinholes, or signs of wear.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Aprons are to be worn if material is likely to splash, spill or produce a mist, vapor or spray.

WORK HYGIENIC PRACTICES: Wash hands often and whenever you have completed handling this material before you handle other items including your eyes, mouth, etc.

EXPOSURE GUIDELINES: Mechanical ventilation systems used to ventilate corrosive storage or process areas in areas, such as manufacturing, should be designed with components that are corrosion resistant.

SECTION 8 NOTES: NA



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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Bluish Liquid

ODOR: mild/slight

PHYSICAL STATE: Liquid

pH AS SUPPLIED: 12.9 +/- 2%

pH (1% Solution in H₂O): 10.1 +/- 2%

BOILING POINT: 112 F (100 C)

MELTING POINT: NA

FREEZING POINT: 32 F (0 C)

VAPOR PRESSURE (kPa): 2.3 (@ 20 C)

VAPOR DENSITY (AIR = 1): 0.62 (@ 20 C)

SPECIFIC GRAVITY (H₂O = 1): 1.066 (@ 20 C)

EVAPORATION RATE: NA

POLYMERIZATION: Will Not Occur.

SOLUBILITY IN WATER: Easily soluble in cool water, hot water. Soluble in dilute material.

PERCENT SOLIDS BY WEIGHT: >1%

PERCENT VOLATILE: BY WT/ >1% BY VOL @ 20 C

VOLATILE ORGANIC COMPOUNDS (VOC): NA

MOLECULAR WEIGHT: 19.22 g/mole

SECTION 9 NOTES: NA

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID (STABILITY): Excessive heat or freezing.

INCOMPATIBILITY: Acids, aluminum, Copper, Copper alloys, halogenated hydrocarbons, metals, nickel, organic nitro compounds, oxidizing agents, reactive metals such as aluminum and magnesium, steel, strong bases, zinc.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Ammonia, nitrogen oxides (NO_x), Hydrogen cyanide, Hydrocarbons.

HAZARDOUS POLYMERIZATION: Material will not undergo hazardous polymerization.

SECTION 10 NOTES: NA

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: NA

SECTION 11 NOTES: NA



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SECTION 12: ECOLOGICAL INFORMATION

BIODEGRADABILITY:

Ethylenediaminetetra Acetic Acid, Tetrasodium Salt: No Data Available
Sodium meta-Silicate: No Data Available
Diphosphoric Acid, Tetrapotassium Salt: No Data Available

TOXICITY TO FISH:

Ethylenediaminetetra Acetic Acid, Tetrasodium Salt: 96 h LC 50 Bluegill (*Lepomis macrochirus*), 472.0-500.0 mg/l Method: Static: Mortality.
Sodium meta-Silicate: No Data Available
Diphosphoric Acid, Tetrapotassium Salt: No Data Available

TOXICITY TO DAPHNIA AND OTHER AQUATIC INVERTEBRATES:

Ethylenediaminetetra Acetic Acid, Tetrasodium Salt: 24 h EC Water Flea (*Daphnia magna*): 570.0-640.0 mg/l Mortality
Sodium meta-Silicate: No Data Available
Diphosphoric Acid, Tetrapotassium Salt: No Data Available

TOXICITY TO ALGAE:

Ethylenediaminetetra Acetic Acid, Tetrasodium Salt: No Data Available
Sodium meta-Silicate: No Data Available
Diphosphoric Acid, Tetrapotassium Salt: No Data Available

TOXICITY TO BACTERIA:

Ethylenediaminetetra Acetic Acid, Tetrasodium Salt: No Data Available
Sodium meta-Silicate: No Data Available
Diphosphoric Acid, Tetrapotassium Salt: No Data Available

BIOCHEMICAL OXYGEN DEMAND:

Ethylenediaminetetra Acetic Acid, Tetrasodium Salt: No Data Available
Sodium meta-Silicate: No Data Available
Diphosphoric Acid, Tetrapotassium Salt: No Data Available

CHEMICAL OXYGEN DEMAND:

Ethylenediaminetetra Acetic Acid, Tetrasodium Salt: No Data Available
Sodium meta-Silicate: No Data Available
Diphosphoric Acid, Tetrapotassium Salt: No Data Available

SECTION 12 NOTES: NA

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

SECTION 13 NOTES: NA

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION:

PROPER SHIPPING NAME: Corrosive liquid, basic, organic, n.o.s.
HAZARD CLASS: 8
ID NUMBER: UN3267
PACKING GROUP: III
LABEL STATEMENT: Corrosive 8

WATER TRANSPORTATION:

PROPER SHIPPING NAME: Corrosive liquid, basic, organic, n.o.s.
HAZARD CLASS: 8
ID NUMBER: UN3267
PACKING GROUP: III
LABEL STATEMENT: Corrosive 8



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OTHER AGENCIES: NA

SECTION 14 NOTES: Quantity Limits: Passenger Aircraft/Rail = 0.5L, Cargo Aircraft Only = 2.5L. Vessel Stowage: Stow clear of living quarters and "separate from" acids.

Dangerous goods description (if indicated above) may not reflect quantity, end-use or region-specific exceptions that may apply. Consult shipping documents for descriptions that are specific to the shipment.

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): NOT REGULATED

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): NOT REGULATED

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT): NOT REGULATED

311/312 HAZARD CATEGORIES: NOT REGULATED

313 REPORTABLE INGREDIENTS: NOT REGULATED

STATE REGULATIONS: NOT REGULATED

INTERNATIONAL REGULATIONS: NOT REGULATED

SECTION 15 NOTES: NA

SECTION 16: OTHER INFORMATION

REFERENCES: ScienceLab.com & Raw Chemical Company Suppliers (2015)

PREPARATION INFORMATION CREATED: 12/16/2015 LAST UPDATED: 12/16/2015

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