



MATERIAL SAFETY DATA SHEET

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DATE REVISED: 1-8-04
REVISION MSDS No. 541346-2

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ABC BLACKENER UPC No. 45910, 45911

MANUFACTURED BY: PRECISION BRAND PRODUCTS INC.
2250 Curtiss Street
Downers Grove IL 60515 USA
Product Information Telephone Number: (630) 969-7200

24 HOUR TRANSPORTATION EMERGENCY NUMBER: CHEMTREC 800-424-9300 U.S. & CANADA
202-483-7616 INTERNATIONAL

2. COMPOSITION / INFORMATION ON INGREDIENTS

| DESCRIPTION | CAS NUMBER | WEIGHT PERCENT | EXPOSURE LIMITS |
|---|------------|----------------|------------------------------------|
| Selenious Acid – H ₂ SeO ₃ | 7783-00-8 | <4 | 0.2 mg/m ³ ^a |
| Cupric Sulfate – CuSO ₄ ·5H ₂ O | 7758-99-8 | <8 | 1 mg/m ³ ^b |
| Phosphoric Acid – H ₃ PO ₄ | 7664-38-2 | <3 | 1 mg/m ³ |
| Fluoboric Acid – HBF ₄ | 16872-11-0 | <2 | 2.5 mg/m ³ ^c |
| Nickel Sulfate – NiSO ₄ | 7786-81-4 | <1 | 1 mg/m ³ ^d |
| Water – H ₂ O | 7732-18-5 | Balance | None Established |

^a OSHA (as Se)

^c OSHA (as F)

^b OSHA (Cu, dust or mist)

^d OSHA (as Ni)

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Odorless blue liquid. Irritating or burning to eyes and skin.

EYE CONTACT: Irritation or possible burns upon direct contact.

SKIN CONTACT: Irritation and possible sensitization with certain individuals.

INGESTION: Irritation and possible burns to the gastrointestinal tract. Other possible symptoms include nausea, vomiting, abdominal pain, and difficulty breathing.

INHALATION: Toxic fumes not generated normally. If sprayed, breathing mists can cause nose and throat irritation, headache, dizziness, nausea, and difficulty breathing.

CHRONIC: Not established.

4. FIRST AID MEASURES

EYE CONTACT: Flush immediately with clean water. Continue for at least 15 minutes. Consult a physician.

SKIN CONTACT: Remove contaminated clothing to avoid prolonged contact. Wash affected areas with soap and water.

INGESTION: If victim is conscious, induce vomiting. Never administer anything by mouth to an unconscious person. If breathing is difficult, give oxygen. Seek medical attention.

INHALATION (mist): Remove from exposure. Provide air if breathing difficult. Seek medical attention if necessary.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASHPOINT: None

METHOD USED: Not applicable

FLAMMABLE LIMITS:

LFL: Not applicable

UFL: Not applicable

EXTINGUISHING MEDIA: Water-based product. Non-flammable

FIRE & EXPLOSION HAZARDS: None.

SPECIAL FIRE FIGHTING PROCEDURES: None (non-flammable)

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Review current local, state and federal laws, codes, statutes, and regulations to determine appropriate agencies to be notified, and the conditions under which they are to be notified. Wear recommended protective equipment. Recover as much free liquid as possible and collect in acid-resistant container. Use absorbent to pick up residue. Avoid discharging liquid directly into a sewer or surface waters. CERCLA Reportable Quantity is 1 lb. for Selenious Acid (approximately 3 gallons of product) and 10 lb. for Cupric Sulfate (approximately 27 gallons of product).

WASTE DISPOSAL METHOD: Review current local, state and federal laws, codes, statutes and regulations to determine current status and appropriate disposal method for the ingredients listed in Section 2. Waste and its solutions are assigned EPA Hazardous Waste Number D010. The wastes can be disposed of through a licensed waste disposal company.

7. HANDLING AND STORAGE: Store in acid-resistant containers. Keep containers covered when not in use. Avoid storing with cyanides, water-reactive substances and strong reducing agents. Wear protective equipment when handling product.

8. SPECIAL PROTECTION INFORMATION

NOTE: The product itself does not produce hazardous fumes or vapors. Consequently, no ventilation or respiratory protection is required under normal operating conditions. However, if the product is applied in a way that produces mists or aerosols, then appropriate ventilation and respiratory protection is recommended.

RESPIRATORY PROTECTION (type): Air-supplied or self-contained breathing apparatus if misting is likely

PROTECTIVE GLOVES (type): Rubber or neoprene

LOCAL EXHAUST VENTILATION (rate): As needed to keep exposure below TLV

EYE PROTECTION: (type): Safety glasses, goggles or face shield

MECHANICAL VENTILATION (rate): No information

OTHER PROTECTIVE EQUIPMENT: Chemical resistant apron

SPECIAL VENTILATION: N/A

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: >212°F

SPECIFIC GRAVITY: (Water = 1): 1.099

VAPOR PRESSURE: No data

VOLATILE BY VOLUME: None (except water)

VAPOR DENSITY: (Air = 1): <1

EVAPORATION RATE: (Ethyl Ether = 1): <1

SOLUBILITY IN WATER: Complete

APPEARANCE & ODOR: Odorless blue liquid

pH (100%) : <1

pH (10%) :

10. STABILITY AND REACTIVITY

STABILITY: Stable.

CONDITIONS TO AVOID: None known.

INCOMPATIBILITY (materials to avoid): Cyanides, water-reactive substances, most metals, strong reducing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Reaction with organics and strong reducing agents can produce organoselenides and hydrogen selenide.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

1. California Proposition-65:

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm. This product contains nickel, certain nickel compounds, and trace amounts of metal salts or organic compounds that have been listed pursuant to Proposition 65, California Health & Safety Code Section 25249.8. Employers may have an obligation to warn their employees and other on their premises of potential exposure to Proposition 65 listed substances. If this product is sold or used in or incorporated into a product sold in California, California law may require that the manufacturer, distributor and retailer of the product provide a warning pursuant to Proposition 65, California Health & Safety Code Section 25249.6. Failure to provide required warnings may result in legal liability. This product may not be discharged onto land or into any source of drinking water in California.

2. The Registry of Toxic Effects of Chemical Substances cites experimental evidence toxic effects of selenites and various copper compounds. The implications of the experimental data for human exposure is uncertain.

3. With regards to carcinogenesis in animals, the status of selenium is not established according to IARC (the International Agency for Research on Cancer). Other animal or epidemiological studies suggest that selenium may have anti-carcinogenic effects.

4. The Registry of Toxic Effects of Chemical Substances cites experimental evidence toxic effects of nickel compounds. NIOSH has proposed that all "airborne nickel" (nickel dusts and fumes) be considered and regulated as an occupational carcinogen. The emission of nickel in this form with ALUMA BLACK A14 is essentially non-existent, which by NIOSH's proposal, renders it non-carcinogenic. Further, inorganic nickel compounds (i.e. nickel nitrate) are no considered carcinogenic by ingestion.

12. ECOLOGICAL INFORMATION

Information not available.

13. DISPOSAL CONSIDERATIONS

Any disposal practice must be in compliance with local, state, and federal laws and regulations. Contact the appropriate agency for specific information. Transport, storage and disposal of hazardous waste must be carried out by a licensed facility or waste hauler.

14. TRANSPORT INFORMATION

D.O.T. HAZARDOUS MATERIALS DESCRIPTION AND PROPER SHIPPING NAME:

(49CFR 172.101): Corrosive Liquid, Acidic, Inorganic, N.O.S. 8/UN3264/P.G. III (Selenious & Phosphoric Acid). Exceptions: 49CFR 173.154. Reportable Quantity at 26.9 gallons (Cupric Sulfate) and 33.8 gallons (Selenious Acid); Marine Pollutant (Cupric Sulfate)

15. REGULATORY INFORMATION

OSHA HAZARD COMMUNICATION RULE 29 CFR 1910.1200: Refer to Section 2.

TSCA (TOXIC SUBSTANCES CONTROL ACT): Components of this product are listed on the TSCA Inventory.

CERCLA (Comprehensive Response compensation and Liability Act, 40 CFR 117, 302:

Refer to Section 6 (Accidental Release Measures).

15. REGULATORY INFORMATION – (continued)

SARA TITLE III (Superfund Amendments and Authorization Act):

Section 313 Reportable Ingredients: Selenious Acid, Cupric Sulfate and Phosphoric Acid.

CALIFORNIA PROPOSITION-65:

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

This product contains nickel, certain nickel compounds, and trace amounts of metal salts or organic compounds that have been listed pursuant to Proposition 65, California Health & Safety Code Section 25249.8. Employers may have an obligation to warn their employees and other on their premises of potential exposure to Proposition 65 listed substances. If this product is sold or used in or incorporated into a product sold in California, California law may require that the manufacturer, distributor and retailer of the product provide a warning pursuant to Proposition 65, California Health & Safety Code Section 25249.6. Failure to provide required warnings may result in legal liability. This product may not be discharged onto land or into any source of drinking water in California.

16. OTHER INFORMATION

NATIONAL FIRE PROTECTION ASSOCIATION CODES (NFPA):

HEALTH: 2 FLAMMABILITY: 0
REACTIVITY: 0

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS):

HEALTH: 2 FLAMMABILITY: 0
REACTIVITY: 0 PERSONAL PROTECTION: C

The data here is for hazard communication to our employees, our customers and their employees, and authorized regulatory agencies. For the intended purpose, this MSDS (Material Safety data Sheet) may be duplicated or the data transcribed to an alternative form.

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