SAFETY DATA SHEET

IDENTITY

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<th>DECARBITE®</th>
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SECTION I - Identification

PRODUCT CODE: DECS120, DECS121, DECS135, DECB122, DECB123, DECB135

MANUFACTURER'S NAME:
P. W. PERKINS CO., INC.
221 COMMISSIONERS PIKE
WOODSTOWN NJ 08098-2032 USA
856-769-3525

EMERGENCY TELEPHONE NUMBER: 1-800-424-9300 (CHEMTREC)
INTERNATIONAL: CALL CHEMTREC COLLECT 1-703-527-3887

DATE PREPARED: JANUARY 5, 2015

SECTION II – Hazards Identification

Route(s) of Entry: Inhalation? 4-Extreme
Skin? 4-Extreme
Ingestion? 3-Severe

Health Hazards (Acute and Chronic): Corrosive to all body tissue which it comes in contact. The chronic local effect may consist of multiple areas of superficial destruction of the skin. Inhalation of dust may cause varying degrees of irritation.

Carcinogenicity: NTP? NA; IARC Monographs? NA;
OSHA Regulated? NA Not listed as a carcinogen.

Signs and Symptoms of Exposure: Itching, burning of skin or eyes. Temporary discomfort of breathing passages.

Medical Conditions Generally Aggravated by Exposure: Increased susceptibility to respiratory illness.

Emergency and First Aid Procedures: Flush with water. Seek medical attention. Eyes – flush with large amounts of clean water, followed by boric acid eye wash solution.
SECTION III – Composition/Information on Ingredients
Proprietary formulation indicating CO₂ Adsorbent
Sodium Hydroxide: CAS #1310-73-2; 90 – 95%
Non Fibrous Silicate: CAS #1318-00-9; 5 – 10%

SECTION IV – FIRST AID MEASURES
Inhalation: Supply fresh air. If not breathing, give artificial respiration.
Ingestion: If swallowed, call for doctor immediately. Drink plenty of water and provide fresh air.
Skin contact: Immediately flush skin with plenty of water and soap. Immediately remove any clothing soiled by the product. Wash clothing before reuse.
Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

SECTION V – Fire and Explosion Hazard Data
Flash Point (Method Used): No flash to 550° F  ASTM D-56
Flammable Limits: Non flammable
LEL: NA
UEL: NA
Extinguishing Media: Product not combustible. Foam/CO₂ or dry chemical can be used. Direct contact with water can cause a violent exothermic reaction.
Special Fire Fighting Procedures: Protective clothing/self contained breathing apparatus should be worn by fire fighters in area where product is stored.
Unusual Fire and Explosion Hazards: Material is stable (non explosive), nonflammable. Will react with varying degrees of intensity on exposure to water and strong acids.

SECTION VI – Accidental Release Measures
Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.
Measures for environmental protections: Do not allow product to reach sewage systems or any water course. Inform authorities in case of seepage into water course or sewage system.
Measures for cleaning/collection: Use neutralizing agent. Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents.

SECTION VII – Precautions for Safe Handling and Use
Steps to Be Taken in Case Material is Released or Spilled: Wash area with 1 molar Hydrochloric Acid or use caustic spill kit. Wash with clean water.
Waste Disposal Method: Appropriate disposal should conform with local and state health regulations.
Precautions to Be Taken in Handling and Storing: Wear protective clothing, use adequate ventilation where dust may be generated.
Other Precautions: Respirator, eye protection, gloves, lab coat or other clothing to cover exposed skin area.
SECTION VIII – Exposure Controls/Personal Protection

OSHA Permissible Exposure Limit (PEL) = 2mg/m³ Ceiling
ACGIH Threshold Limit Value (TLV) = 2mg/m³ Ceiling

Respiratory Protection (Specify, Type): Advantage 3000 Respirator, full face mask, model 3200 Twin Port or NIOSH approved respirator.

Ventilation: Local Exhaust: Exhaust fan Special: NA
Mechanical (General) NA Other: NA

Protective Gloves: Impervious

Eye Protection: Goggles/face shield

Other Protective Clothing or Equipment: Coveralls, chemically resistant shoes.

Work/Hygienic Practices: Wash contaminated clothes; showers and eye wash should be accessible.

SECTION IX – PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: @ 760 mm Hg: 1388°C
Vapor Pressure (mm Hg.): 42 mm Hg @ 1000°C
Vapor Density (Air = 1): NA
Specific Gravity (H₂O = 1) 2.13 @ 20°C
Melting Point: NA
Evaporation Rate (Butyl Acetate = 1) NA
Solubility in Water: Completely soluble
Appearance and Odor: tan, no distinct odor

SECTION X – Reactivity Data

Stability: Stable
Conditions to Avoid: Contact with water causes strong exothermic reaction. Avoid strong acids contact.

Incompatibility (Materials to Avoid): Water, strong acids, aluminum, tin, zinc.

Hazardous Decomposition or Byproducts: Exposure to air results in formation of H₂O and carbonate.

Hazardous Polymerization: Will Not Occur

Conditions to Avoid: Material not known to polymerize.

SECTION XI – Toxicological Information

Effects of acute exposure:
Skin: Causes chemical burns.
Eye: Causes chemical burns.
Inhalation: Harmful if inhaled. May cause irritation or chemical burns.
Ingestion: Harmful if swallowed. May cause chemical burns to mouth, throat and stomach.
SECTION XII – Ecological Information

Do not empty into drains. Do not allow undiluted product or large quantities to reach ground water, water course, or sewage system.

SECTION XIII – Disposal Considerations

Review federal, state, and local government requirements prior to disposal. Whatever cannot be saved for recovery or recycling should be managed in an appropriate waste facility. Dispose of container and unused contents in accordance with federal, state, and local requirements.

SECTION XIV – Transport Information

**Domestic (Land, DOT)**

DOT Shipping name: Sodium Hydroxide, Solid  
DOT ID: UN1823  
DOT Hazard Class: 8, corrosive, Packaging Group II

**IATA**

IATA Shipping name: Sodium Hydroxide, Solid  
IATA ID: UN1823  
IATA Hazard Class: 8, corrosive, Packaging Group II  
IATA Instructions – Passenger/cargo - 859, LTD QTY - 844, Cargo only - 863

SECTION XV – Regulatory Information

HMIS HAZARD RATINGS, Health Hazard 3; Fire Hazard, 0; Reactivity 2  
WHMIS Classification: Class E, Corrosive Material  
TSCA: On Toxic Substance Control Inventory  
Hazardous Substance: RQ 1000 lbs  
SARA TITLE III, 311/312: Acute, Reactive  
RCRA: Not Regulated

SECTION XVI – Date of Preparation

DATE PREPARED: JANUARY 5, 2015