



Buckeye International, Inc.
 2700 Wagner Place
 Maryland Heights, MO 63043
 314/291-1900

N. F. P. A.
 4 = Extreme
 3 = High
 2 = Moderate
 1 = Slight
 0 = Insignificant

| | | |
|--|------------|----------|
| | HEALTH | 3 |
| | FIRE | 0 |
| | REACTIVITY | 1 |

Material Safety Data Sheet

24 Hour Medical Emergency Telephone Number: 1-800-303-0441. Outside North America call : 651-632-8956.

24 Hour Transportation Emergency Telephone Number: 1-800-535-5053. Outside North America call : 352-323-3500.

| SECTION I - IDENTIFICATION | | | | |
|---|--|----------------------------|--------------------------------|------------|
| PRODUCT NAME BUCKEYE DY-PHASE | | | DATE PREPARED April 1, 2005 | |
| CHEMICAL FAMILY Acid Toilet Bowl Cleaner, Water Based | | | CODE 5255 | |
| PROPER D.O.T. SHIPPING NAME Consumer Commodity, ORM-D | | | | |
| D.O.T. HAZARD CLASSIFICATION ORM-D | | | | |
| SECTION II - INGREDIENTS AND IDENTITY INFORMATION | | | | |
| % By WGT | MATERIAL | PEL | T.L.V. | C.A.S. NO. |
| 16.1 | Hydrochloric Acid* | 5 ppm | 5 ppm | 7647-01-0 |
| 6.6 | Phosphoric Acid | 1 mg/m ³ | 1 mg/m ³ | 7664-38-2 |
| >68.3 | Soft Water | NE | NE | 7732-18-5 |
| <7.0 | Ethoxylated Alkyl Amines | NE | NE | 61791-26-2 |
| <2.0 | Pefume, coloring and additives less than 1% | NA | NA | NA |
| | | | | |
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| ITEMS MARKED * ARE SARA TITLE III SEC 313 REPORTABLES. ALL INGREDIENTS ARE ON TSCA INVENTORY. | | | | |
| SECTION III - PHYSICAL DATA | | | | |
| BOILING POINT °F | 212°F | pH (CONC.) | | <1.0 |
| SOLUBILITY IN WATER | Miscible | pH (USE DILUTION) RTU | | <1.0 |
| % VOLATILE BY WEIGHT | 73.4 | EVAPORATION RATE (Water=1) | | 1.0 |
| SPECIFIC GRAVITY | 1.13 | PRODUCT FORM | | Liquid |
| APPEARANCE AND ODOR | Mild, Yellow Opaque Solution | | | |
| SECTION IV - FIRE AND EXPLOSION DATA | | | | |
| FLASH POINT(Test Method) | Tag Closed Cup: None! | FLAMMABLE LIMITS | | |
| EXTINGUISHING MEDIA | NA | UPPER LIMIT: NA | LOWER LIMIT: NA | |
| SPECIAL FIRE FIGHTING PROCEDURES | Wear acid resistant clothing. Vapor or mist is poisonous if inhaled. Self contained breathing apparatus. | | | |
| UNUSUAL FIRE AND EXPLOSION HAZARDS | Products of combustion. Oxides of carbon and phosphorus. Hydrogen chloride, chlorine. | | | |
| SECTION V - REACTIVITY DATA | | | | |
| STABILITY | Stable | | | |
| CONDITIONS TO AVOID | None known. | | | |
| INCOMPATIBILITY | Do not mix with chlorine bleach, caustics or alkali. Avoid contact with metals. | | | |
| HAZARDOUS DECOMPOSITION PRODUCTS | None known. | | | |
| HAZARDOUS POLYMERIZATION | Will not occur. | | | |

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|---|--|------------------------|------------------------------------|
| SECTION VI - HEALTH HAZARD DATA | | | |
| ROUTE(S) OF ENTRY: | INHALATION? Yes | SKIN? Yes | INGESTION? Yes |
| HEALTH HAZARDS (Acute and Chronic) | | | |
| Corrosive. Will cause burns to eyes, skin and mucous membranes. Poison. May be fatal or harmful if swallowed. Vapors may be irritating to mucous membranes. Breathing mist may cause pulmonary edema. | | | |
| CARCINOGENICITY: | NTP? No | IARC MONOGRAPHS? No | OSHA REGULATED? No |
| SIGNS AND SYMPTOMS OF OVEREXPOSURE | | | |
| For Eyes: Redness or burning sensation. For Skin: Redness of skin or a warming sensation. For Inhalation: Irritation of throat. Headache. For Ingestion: Nausea. | | | |
| MEDICAL CONDITIONS | | | |
| GENERALLY AGGRAVATED BY EXPOSURE | | | |
| None known. | | | |
| EMERGENCY AND FIRST AID PROCEDURES | | | |
| Eye Contact: Flush eyes with cool water for 15 minutes. Call physician immediately. | | | |
| Skin Contact: Gently wipe off acid and wash with soap and water, then cover with moist magnesia or baking soda, call physician. | | | |
| Inhalation: Remove to fresh air. If conscious give lots of water to drink and get immediate medical attention. | | | |
| Ingestion: Call physician immediately. Give a teaspoon or more of milk of magnesia or a cup of soapy water, followed with milk or raw egg whites. If these are not available, give two large glasses of water. Do NOT induce vomiting. | | | |
| SECTION VII - SPILL OR LEAK PROCEDURES | | | |
| SPILL RESPONSE | | | |
| Dilute with large amounts of water. Pick up with mops into a plastic bucket. Wash area with an alkaline detergent, followed by a clear water rinse. Allow floor to dry before allowing traffic. | | | |
| WASTE DISPOSAL METHOD | Flush to sanitary sewer or send to sanitary landfill, following local, state and federal laws. | | |
| SECTION VIII - SPECIAL PROTECTION INFORMATION | | | |
| EYE PROTECTION | Wear safety glasses or chemical splash goggles. | VENTILATION | Adequate to keep vapors dispersed. |
| SKIN PROTECTION | Rubber gloves or other impervious gloves. | RESPIRATORY PROTECTION | None under normal use. |
| OTHER PROTECTION | Follow good personal hygiene practices. | | |
| SECTION IX - SPECIAL PRECAUTIONS | | | |
| PRECAUTIONS IN HANDLING AND STORAGE | KEEP OUT OF REACH OF CHILDREN! Do not breathe vapors or fumes. Store away from caustics and strong alkali. Rinse container before discarding. Store at room temperature. Keep container closed when not in use. Store on low shelves. | | |
| OTHER PRECAUTIONS NA = Not Applicable NE = Not Established | Product is regulated under CERCLA. RQ=5,000 lbs. This product is not regulated under RCRA when product label and MSDS spill directions are followed. If more than 10,000 lbs. is stored in a single day, product may require reporting under SARA Title III, Section 311/312 as an immediate health hazard. | | |
| PREPARED BY: | Mark Gindling, Director of Research | | |
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