

MANUFACTURER

Castle Products, Inc.
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EMERGENCY (585) 275-3232

MATERIAL SAFETY DATA SHEET

Hazard: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme.
Protection: A-Goggles, B-Goggles & gloves,
C-Goggles, gloves, & protective wear.
Other: NA-Not Applicable, ND-Not Determined,
NE-Not Established.

HAZARD RATING

Health 2
Fire 0
Reactivity 1
Protection B

SECTION I DESCRIPTIONTRADE NAME: **ECHO® Wheel Cleaner & Brightener**

PRODUCT TYPE: Cleaner

SECTION II HAZARDOUS INGREDIENTS

INGREDIENTS	CAS #	PEL	TLV	STEL	%
Organic Acid Salt	506-89-8	NE	NE	NE	6-10 %
Ethoxylated C10-16 Alcohols	68439-46-3	NE	NE	NE	<2 %
EDTA	64-02-8, 2836-32-0, 1310-73-2, 5084-31-3	NE	NE	NE	<1 %
Potassium Halide	7681-11-0	NE	NE	NE	<1 %

SECTION III PHYSICAL DATA

BOILING POINT:	>210 F @ 1 ATM	SPECIFIC GRAVITY (H ₂ O=1):	1.005
VAPOR PRESSURE:	NA	PERCENT VOLATILE BY VOL %:	<2 %
VAPOR DENSITY (air=1)	NA	EVAPORATION RATE (Butyl Acetate=1):	Approximately that of water
SOLUBILITY IN WATER:	Complete	APPEARANCE & ODOR:	Thin, clear purple, foamy liquid with mild fruit odor

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (method used): >212 F LOWER EXPLOSIVE LIMIT: NA UPPER EXPLOSIVE LIMIT: NA
EXTINGUISHING MEDIA: Use water, foam, or carbon dioxide. Wear positive-pressure self-contained breathing apparatus, as toxic emissions are possible in fire
UNUSUAL FIRE & EXPLOSION HAZARDS: Heat above 350°C will result in decomposition releasing hydrogen, ammonia, and nitrogen oxide. These include corrosive and toxic fumes.
SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should be equipped with NIOSH-approved self-contained breathing apparatus and appropriate protective apparel.

SECTION V HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: Eye contact, skin contact, inhalation, and ingestion. EFFECTS OF OVEREXPOSURE: **Eyes:** Causes severe eye irritation or burns. Symptoms may include tearing, or blurring of vision, sloughing of eye surface, swelling of eye and possibly permanent clouding of eye or vision loss. **Skin:** Causes severe irritation or burns which may not be noticeable at first. **Inhalation:** May cause irritation to nose or throat. Additional symptoms may include mucous membrane irritation, and inflammation, cough and narrowing of the bronchi, leading to upper airway obstruction or lung injury. Death may occur from respiratory paralysis. **Ingestion:** May cause severe irritation or burns to gastrointestinal tract. Symptoms may include nausea, vomiting, and abdominal pain. Internal bleeding may develop.
EMERGENCY & FIRST AID PROCEDURES:
Eyes: Do not rub eyes. Immediately flush with water for at least 15 minutes. Get medical attention at once. **Skin:** Immediately remove contaminated clothing and flush with water for at least 15 minutes. Wash with soap and water. Wash contaminated clothing before reuse. Discard leather goods. Get medical attention at once. **Inhalation:** Remove to fresh air. If breathing is difficult get medical attention at once. **Ingestion:** Contact a poison control center and get medical attention immediately. Unless instructed otherwise have victim drink water, milk calcium gluconate or calcium lactate and do not induce vomiting. Never give anything by the mouth to an unconscious person.

SECTION VI REACTIVITY DATA

STABILITY: Stable up to 110°C/230°F. Heating above 110°C results in an exothermic decomposition with the release of CO₂ gas
INCOMPATIBILITY (material to avoid): Avoid contact with oxidizers, hypochlorides, alkaline materials, diazonium salts, metallic salts
HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon, nitrogen, chlorine, phosphorous and phosphine gas when heated to decomposition.
HAZARDOUS POLYMERIZATION: Does not occur

SECTION VII SPILL OR LEAK PROCEDURES

IF RELEASED OR SPILLED: Surface may become slippery. Clean up spill using inert material. Absorb and containerize in receptacle suitable for recovery / disposal. Keep spills out of sewers and open bodies of water.
WASTE DISPOSAL METHOD: Dispose of in accordance with all Federal, State and Local Regulations.

SECTION VIII SPECIAL PROTECTION INFORMATION

VENTILATION: Local exhaust or general room ventilation LOCAL XXXXX MECHANICAL OTHER
RESPIRATORY PROTECTION: Where exposure through inhalation due to working in high mist/vapor environment, a NIOSH-approved air purifying respiratory protection equipment rated for acid gases is recommended.
PROTECTIVE GLOVES: Protective gloves constructed of natural rubber, neoprene, or nitrile rubber are recommended while handling the product.
EYE PROTECTION: Safety goggles.
OTHER PROTECTIVE EQUIPMENT: Emergency eye wash station and safety shower are recommended.

SECTION IX SPECIAL PRECAUTIONS

HANDLING & STORING PRECAUTIONS: Wash hands before eating, drinking, smoking, or using toilet facilities. Promptly remove any contaminated clothing and wash before reuse. Discard contaminated leather goods. All activities should be conducted in a manner that insures that product mists or vapors are minimized. Store in original container away from strong acids, bases, and excessive heat. Keep out of reach of children.

PREPARED: 9/13/05

UPDATED: 1/2/09

PRODUCT #: DE113, DE115