MATERIAL SAFETY DATA SHEET

Arrow Chemical Products, Inc. 2067 Ste. Anne Detroit, MI 48216 (313) 237-0277

Emergency Telephone: Infotrac (800) 535-5053

Hazard Rating Scale

4 = Extreme

3 = High

2 = Moderate

1 = Slight

0 = Insignificant

Health: 2
Fire: 0
Reactivity: 2

Section 1 - IDENTIFICATION

Product Name: #141 Arrow Clean-Up with Bleach Date Prepared: 5-8-04

Section 2 – HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

(Hazardous Ingredients as Defined by OSHA, 29 CFR 1910.1200)

% By Wgt. Material PEL T.L.V. S.T.E.L. C.A.S. No.

0-10% Sodium Hydroxide* 2 mg/m3 2 mg/m3 1310-73-2 0-10% Sodium Hypochlorite* N/E N/E 7681-52-9

The balance of ingredients are not considered to be hazardous within the meaning of OSHA Hazard Communication Standard.

ITEMS MARKED * ARE SARA TITLE III SEC 312/313 REPORTABLES. ALL INGREDIENTS ARE ON TSCA INVENTORY.

DOT Shipping Information: Not regulated.

SECTION 3 - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT:

VAPOR PRESSURE:

VAPOR DENSITY:

SPECIFIC GRAVITY:

MELTING POINT:

EVAPORATION RATE:

No Data

N/E

N/E

N/E

1.051

(butyl acetate =1)

SOLUBILITY IN WATER: Complete

APPEARANCE AND ODOR: Clear liquid, Chlorine Odor

pH 12.5 – 13.5

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: N/A FLAMMABLE LIMITS: N/A

EXTINGUISHING MEDIA - Use appropriate media for primary cause of fire.

SPECIAL FIRE FIGHTING PROCEDURES - Use OSHA approved self-contained breathing apparatus and protective clothing when any materialsis

involved in a fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS - None known.

SECTION 5 - REACTIVITY DATA

STABILITY: Stable under normal use and storage conditions.

INCOMPATIBILITY (MATERIALS TO AVOID): Reacts with other household chemicals such as toilet bowl cleaners, rust removers, acids or ammonia-containing products to produce hazardous gases, such as chlorine and other chlorinated compounds. Prolonged contact with metal or old porcelain may cause pitting or discoloration.

SECTION 6 - HEALTH HAZARD DATA

ROUTES OF ENTRY: EYES (X) SKIN (X) INGESTION (X) INHALATION (X)

PRECAUTIONARY STATEMENTS – Do not get in eyes or on clothing. Avoid prolonged or repeated skin contact. Avoid prolonged breathing of vapors. Use only in well-ventilated areas. KEEP OUT OF REACH OF CHILDREN.

Moderate eye irritant. Mild to moderate skin irritation. Exposure to vapor or mist may irritate eyes, nose, throat, lungs. Harmful if swallowed. May The following medical conditions may be aggravated by exposure to high concentrations of vapor or mist: heart conditions or chronic respiratory problems such as asthma, emphysema, chronic bronchitis or obstructive lung disease. Under normal conditions, the liklelihood of any adverse health effects is low. Wash thoroughly after handling and before eating, drinking or using tobacco. Remove contaminated clothing and wash before reuse. CARCINOGENICITY; NTP, IARC MONOGRAPHS, OSHA REGULATED? No

EMERGENCY AND FIRST AID PROCEDURES:

IF IN EYES: Remove contact lenses, and flush eyes with water for 15 minutes. Call a poison control center or doctor for treatment advice.

IF SWALLOWED: Drink a glass of water. Call a poison control center or doctor immediately for treatment advice.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

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SECTION 7 – SPILL PROCEDURES/WASTE DISPOSAL

Spills: Absorb and containerize. Wash down residual to sanitary sewer. DISPOSAL: Dispose of product in accordance with applicable laws.

SECTION 8 - CONTROL MEASURES

RESPIRATORY PROTECTION – Normally not needed. VENTILATION – Provide **good general room ventilation** to minimize exposure. PROTECTIVE GLOVES – Impervious rubber gloves.

EYE PROTECTION - Splash Proof Chemical Safety Goggles.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT – Safety shower recommended in all storage and handling areas.

Sodium Hydroxide is regulated under CERCLA RQ=1,000 lbs. Sodium Hydroxide is reportable under SARA Title III. Sodium Hypochlorite is regulated under CERCLA RQ=100 lbs. Sodium Hypochlorite is reportable under SARA Title III. N/A=Not Applicable N/E=Not Established Prepared By: Cindy Schroeder, Director of Research