

MATERIAL SAFETY DATA SHEET

SECTION I - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **F-450 CHLORINATED POWDERED** ID NUMBER: 6850 PRODUCT USE/CLASS: HD CHLORINATED CLEANER
MANUFACTURER: CHEMICAL UNIVERSE, INC. 1133 Saline , North Kansas City, MO 64116 EMERGENCY TELEPHONE: 800-424-9300
PREPARER: D. ACKART PHONE: 816-471-3602 PREPARE DATE: 05-15-07

SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	WT. PERCENT IS LESS THAN	TLV-TWA	TLV-STEL	PEL-TWA	SKIN DESIGNATION
SODIUM DIGHLOROISOCYANURATE DIHYDRATE	51580-86-0	< 6%	NO INFO	NO INFO	NO INFO	YES
SODIUM METACILICATE	1310-73-2	< 40 %	2 mg/m3	NO INFO	NO INFO	YES

(See Section XI for abbreviation legend)

SECTION III - PHYSICAL DATA

BOILING RANGE: 206 - 642 F VAPOR DENSITY: Is heavier than air ODOR: STRONG BLEACH SPECIFIC GRAVITY: 1.023
APPEARANCE : WHITE POWDER EVAPORATION RATE: Is slower than Ether SOLUBILITY IN H2O : COMPLETE
(See Section XI for abbreviation legend)

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: >200 F LOWER EXPLOSIVE LIMIT: 1.2 % UPPER EXPLOSIVE LIMIT: 23.5 %
(TAGLIABUE CLOSED CUP)

EXTINGUISHING MEDIA: CO2 DRY CHEMICAL FOAM WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS: UPON BURNING, TOXIC GASES MAY BE RELEASED.

SPECIAL FIREFIGHTING PROCEDURES: FIREFIGHTERS SHOULD WEAR SELF CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING.

SECTION V - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE - EYE CONTACT: CAN CAUSE SEVERE BURNS

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: CAN CAUSE BURNS. THIS PRODUCT MAY CAUSE ALLERGIC SKIN REACTIONS. IRRITATION.

EFFECTS OF OVEREXPOSURE - INHALATION: INHALATION: REMOVE TO FRESH AIR, RESTORE BREATHING. SEEK MEDICAL ATTENTION IMMEDIATELY. IRRITATION FROM PROLONGED EXPOSURE WITH LITTLE VENTILATION.

EFFECTS OF OVEREXPOSURE - INGESTION: CAUSES BURNS TO GASTROINTESTINAL TRACT. DAMAGING TO GASTROINTESTINAL TRACT.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: EYE OR SKIN CONTACT, INGESTION.

FIRST AID - EYE CONTACT: FLUSH WITH WATER 15 MINUTES, LIFTING EYELIDS. SEEK IMMEDIATE MEDICAL ATTENTION.

FIRST AID - SKIN CONTACT: WASH WITH SOAP AND WATER.

FIRST AID - INHALATION: REMOVE TO FRESH AIR. SEEK IMMEDIATE MEDICAL ATTENTION.

FIRST AID - INGESTION: DO NOT INDUCE VOMITING. DRINK LARGE AMOUNTS OF WATER. SEEK IMMEDIATE MEDICAL ATTENTION.

PRIMARY ROUTE(S) OF ENTRY: SKIN CONTACT INHALATION INGESTION EYE CONTACT

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SECTION VI - REACTIVITY DATA

HAZARDOUS DECOMPOSITION PRODUCTS: NONE KNOWN.

CONDITIONS TO AVOID: STRONG ACIDS.

INCOMPATABILITY: STRONG ACIDS

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: DIKE FOR RECOVERY OR DISPOSAL. SPILL MAY BE ABSORBED ONTO APPROPRIATE ABSORBENT MATERIAL.

WASTE DISPOSAL METHOD: DISPOSE IN ACCORDANCE WITH APPROPRIATE FEDERAL, STATE AND LOCAL REGULATIONS.

SECTION VIII - SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: No Information.

VENTILATION: SUFFICIENT VENTILATION, IN VOLUME AND PATTERN, SHOULD BE PROVIDED TO KEEP AIR CONTAMINATION BELOW CURRENT APPLICABLE OSHA PERMISSIBLE EXPOSURE LIMIT OR ACGH'S TLV LIMIT.

SKIN PROTECTION: PROTECT ALL EXPOSED SKIN WITH GLOVES ARM BANDA AND FACE SHEILD.

EYE PROTECTION: FACE SHEILD, SAFETY GLASSES OR GOGGLES.

OTHER PROTECTIVE EQUIPMENT: No Information.

HYGENIC PRACTICES: WASH AFTER EACH USE.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: KEEP AWAY FROM STRONG ACIDS. CONTAINS A BLEACH SUBSTANCE

OTHER PRECAUTIONS: KEEP CONTAINERS CLOSED. KEEP FROM FREEZING CONDITIONS.

SECTION X - HMIS RATINGS

HMIS RATINGS HEALTH: 2 FLAMMABILITY: 0 REACTIVITY: 2

SECTION XI - OTHER REGULATIONS

SARA SECTION 313: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

SODIUM DIGHLOROISOCYANURATE DIHYDRATE	51580-86-0	< 6%	NO INFO	NO INFO	NO INFO	YES
SODIUM METACILICATE	1310-73-2	< 40 %	2 mg/m3	NO INFO	NO INFO	YES

PREVIOUS MSDS REVISION DATE: 01/05/98

LEGEND: NA - Not Applicable, N.E. - Not Established, N.D. - Not Determined

The information contained on this MSDS is been checked and should be accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.

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