

# MATERIAL SAFETY DATA SHEET

## SECTION I - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **F-280 NON-FOAMING ACID CLEANER** ID NUMBER: 6740 PRODUCT USE/CLASS: ACID CLEANER  
MANUFACTURER: Chemical Universe, Inc. 1133 Saline, North Kansas City, MO 64116 EMERGENCY TELEPHONE: 800-424-9300  
PREPARED BY: D. ACKART PHONE: 816-471-3602 PREPARE DATE: 12/01/07

## SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	WT. PERCENT IS LESS THAN	TLV-TWA	TLV-STEL	PEL-TWA	SKIN DESIGNATION
---------------	------------	--------------------------	---------	----------	---------	------------------

PHOSPHORIC ACID	7664-38-2	<50%	NO INFO.	NO INFO.	NO INFO.	YES
-----------------	-----------	------	----------	----------	----------	-----

(See Section 11 for abbreviation legend)

## SECTION III - PHYSICAL DATA

BOILING RANGE: 212 - 340 F VAPOR DENSITY: Is heavier than air. ODOR: PHOSPHORIC SPECIFIC GRAVITY: 1.058  
APPEARANCE: COLORLESS LIQUID 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: >250 F NON-FLAMMABLE (TAGLIABUE CUP CLOSED) LOWER EXPLOSIVE LIMIT: N.A. UPPER EXPLOSIVE LIMIT: N.A.

EXTINGUISHING MEDIA: CO2 DRY CHEMICAL WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS: EXTINGUISH ALL NEARBY SOURCES OF IGNITION SINCE FLAMMABLE HYDROGEN GAS WILL BE LIBERATED FROM CONTACT WITH SOME METALS (ALUMINUM, MAGNESIUM, ETC.).

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

## SECTION V - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE - EYE CONTACT: CAUSES IRRITATION. CONCENTRATE EXTREMELY CORROSIVE TO EYES.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: PROLONGED OR REPEATED CONTACT MAY CAUSE BURNS. PROLONGED EXPOSURE MAY LEAD TO SKIN ULCERATION AND ULTIMATE SCARRING.

EFFECTS OF OVEREXPOSURE - INHALATION: UNLIKELY. IRRITATING TO MUCOUS MEMBRANES.

EFFECTS OF OVEREXPOSURE - INGESTION: CAUSES IRRITATION. CONCENTRATE CORROSIVE TO THE MOUTH AND THROAT. SWALLOWING CAN CAUSES SEVERE AND RAPID BURNING OF THE MOUTH, THROAT, AND DIGESTIVE TRACT.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: NONE REPORTED.

FIRST AID - EYE CONTACT: IMMEDIATELY FLUSH EYES WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES, LIFTING THE UPPER AND LOWER EYELIDS OCCASIONALLY. GET MEDICAL ATTENTION.

FIRST AID - SKIN CONTACT: IMMEDIATELY WASH SKIN WITH LARGE AMOUNTS OF WATER. REMOVE CONTAMINATED CLOTHING AND SHOES; WASH BEFORE REUSE. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

FIRST AID - INHALATION: REMOVE TO FRESH AIR.

FIRST AID - INGESTION: DO NOT INDUCE VOMITING. IF CONSCIOUS, GIVE LOTS OF WATER GET MEDICAL ATTENTION.

PRIMARY ROUTE(S) OF ENTRY: INGESTION

(Continued on Page 2)

PRODUCT NAME: **F-280 NON-FOAMING ACID CLEANER** ID NUMBER: 6740

PRODUCT USE/CLASS: ACID CLEANER

SECTION VI - REACTIVITY DATA

HAZARDOUS DECOMPOSITION PRODUCTS: NONE KNOWN.

CONDITIONS TO AVOID: PROLONGED CONTACT WITH ALUMINUM, COPPER, TIN, LEAD OR ZINC MAY LIBERATE FLAMMABLE HYDROGEN GAS.

INCOMPATIBILITY: STRONG ACIDS MAY PRODUCE VIOLENT REACTION.

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: WEAR APPROPRIATE PROTECTIVE AND RESPIRATORY EQUIPMENT. PREVENT SPILLS FROM ENTERING SEWERS, OR ANY UNAUTHORIZED WATER SYSTEMS. SWEEP UP AND DISPOSE OF IN DOT-APPROVED WASTE CONTAINERS.

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 ACGHI'S TLV LIMIT.

SKIN PROTECTION: HEAVY RUBBER GLOVES NEEDED.

EYE PROTECTION: CHEMICAL GOGGLES WITH SIDE SHIELDS OR FACE SHIELD RECOMMENDED.

OTHER PROTECTIVE EQUIPMENT: EYE WASH, SAFETY SHOWER AVAILABLE.

HYGENIC PRACTICES: WASH AFTER EACH USE.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: STORE IN COOL, DRY, WELL-VENTILATED PLACE AWAY FROM INCOMPATIBLE MATERIALS.

OTHER PRECAUTIONS: ALWAYS OBEY ALL HAZARD WARNINGS AND HANDLE EMPTY CONTAINERS AS IF THEY WERE FULL

SECTION X - HMIS RATINGS

HMIS RATINGS	HEALTH: 2	FLAMMABILITY: 0	REACTIVITY: 0
--------------	-----------	-----------------	---------------

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:

----- CHEMICAL NAME -----	CAS NUMBER	WT/WT %
---------------------------	------------	---------

PREVIOUS MSDS REVISION DATE: 11/17/2005

LEGEND: N.A. - 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.

<END OF MSDS>