Email MSDS

Common Name	HYDRIC ACID	
Manufactured by	APPLIED PETROCHEMICAL RESEARCH	
CAS Number		
Revised	07/23/1987	
Source of MSDS	Dolphin (DOL\$270453)	
I		
II - Hazard Ingredients/Identity Information		
III - Physical/Chemical Characteristics		
<u>IV - Fire and Explosion Hazard Data</u>		
<u>V - Reactivity Data</u>		
<u>VI - Health Hazard Data</u>		
VII - Precautions for Safe Handling and Use		
<u>VIII - Control Measures</u>		

MATERIAL SAFETY DATA SHEET

MAY BE USED TO COMPLY WITH OSHA'S HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200. STANDARD MUST BE CONSULTED FOR SPECIFIC REQUIREMENTS.

U.S. DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (NON-MANDATORY FORM) FORM APPROVED OMB NO. 1218-0072

IDENTITY (AS USED ON LABEL AND LIST):

PRODUCT NAME: HYDRIC ACID

CHEMICAL FAMILY: ORGANIC HYDROXIDE

COMMON SYNONYMS: HYDRONIUM HYDROXIDE, DIHYDROGEN MONOXIDE (DHMO), HYDROXYL ACID, HYDROGEN HYDROXIDE

INDUSTRIAL USES: SOLVENT, NUCLEAR POWER PLANT COOLANT, PHARMACEUTICALS,

PESTICIDES, BIOLOGICAL AND CHEMICAL WEAPONS.

FORMULA: H3O(+) (OH) - KW =1.01 X 10-14 AT 25 DEG. C

NOTE: BLANK SPACES ARE NOT PERMITTED. IF ANY ITEM IS NOT APPLICABLE, OR NO INFORMATION IS AVAILABLE, THE SPACE MUST BE MARKED TO INDICATE THAT.

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-----SECTION I ------

MANUFACTURERS NAME: APPLIED PETROCHEMICAL RESEARCH

ADDRESS (NUMBER, STREET, CITY, STATE, AND ZIP CODE): 3749 INDUSTRIAL WAY LOS ANGELES, CALIFORNIA 90049

EMERGENCY TELEPHONE NUMBER: 800-464-6461

TELEPHONE NUMBER FOR INFORMATION: 301-274-9652

DATE PREPARED: 7/23/87

SIGNATURE OF PREPARER (OPTIONAL):

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-----SECTION II - HAZARD INGREDIENTS/IDENTITY INFORMATION -----

*** WARNING STATEMENT ***

CONTAINS DHMO. PROLONGED EXPOSURE TO SOLID DHMO CAUSES SEVERE TISSUE DAMAGE. GASEOUS DHMO CAN CAUSE SEVERE BURNS. ACCIDENTAL INHALATION OF DHMO EVEN IN SMALL QUANTITIES CAN CAUSE DEATH.

HAZARDOUS COMPONENTS (SPECIFIC CHEMICAL OTHER LIMITS % IDENTITY; COMMON NAMES OSHA PEL ACGIH TLV RECOMMENDED (OPTIONAL) INGREDIENTS CAS NUMBER %WEIGHT HYDRIC ACID 07732-18-5 >90%

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-----SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS ------

BOILING POINT: 212 F

SPECIFIC GRAVITY: 1

VAPOR PRESSURE (MM HG.): 17.5

MELTING POINT: 32 F AT 1 ATM.

VAPOR DENSITY (AIR=1) G/CC: <1

EVAPORATION RATE (BUTYL ACETATE = 1): VARIES

SOLUBILITY IN WATER: 100% SOLUBLE

APPEARANCE AND ODOR:

COLORLESS ODORLESS LIQUID

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-----SECTION IV - FIRE AND EXPLOSION HAZARD DATA ------

FLASH POINT (METHOD USED): N/A

FLAMMABLE LIMITS: LEL: N/A UEL: N/A

EXTINGUISHING MEDIA:

SPECIAL FIRE FIGHTING PROCEDURES:

UNUSUAL FIRE AND EXPLOSION HAZARDS: REACTION WITH SOME SPECIFIC MATERIAL CAUSES COMBUSTION.

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-----SECTION V - REACTIVITY DATA -----

STABILITY	UNSTABLE	CONDITIONS TO AVOID
	STABLE X	MAY REACT VIGOROUSLY WITH SOME
SPECIFIC		MATERIALS. AVOID CONTACT WITH
ALL		MATERIALS UNTIL INVESTIGATION
SHOWS		SUBSTANCE IS COMPATIBLE.

INCOMPATIBILITY (MATERIALS TO AVOID): LEADS TO OR ACCELERATES THE CORROSION OF MANY METALS

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: BY HIGH HEAT AND FIRE: DHMO VAPORS OR AEROSOLS

HAZARDOUS POLYMERIZATION: MAY OCCUR WILL NOT OCCUR (X)

CONDITIONS TO AVOID: MAY REACT VIGOROUSLY WITH SOME SPECIFIC MATERIALS. AVOID CONTACT WITH ALL MATERIALS UNTIL INVESTIGATION SHOWS SUBSTANCE IS COMPATIBLE.

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-----SECTION VI - HEALTH HAZARD DATA -----

ROUTE(S) OF ENTRY: INHALATION? (X) SKIN? (X) INGESTION? (X) HEALTH HAZARDS (ACUTE AND CHRONIC): ACCIDENTAL INHALATION EVEN IN SMALL OUANTITIES MAY CAUSE DEATH. CARCINOGENICITY: DHMO HAS BEEN FOUND IN BIOPSIES OF PRE-CANCEROUS TUMORS AND LESIONS. DHMO HAS ALSO BEEN FOUND IN THE TUMORS OF SOME TERMINAL CANCER PATIENTS NTP? N/A IARC MONOGRAPHS? N/A OSHA REGULATED? SIGNS AND SYMPTOMS OF EXPOSURE: SIGNS OF DHMO OVERDOSE INCLUDE BUT ARE NOT LIMITED TO EXCESSIVE SWEATING, EXCESSIVE URINATION, NAUSEA, VOMITING, ELECTROLYTE IMBALANCE, HYPONATREMIA (SERUM HYPOTONICITY), DANGEROUSLY IMBALANCED LEVELS OF ECF AND ICF IN THE BLOOD AND DEGENERATION OF SODIUM HOMEOSTASIS.

HYPERTENSION IN KIDNEY DIALYSIS PATIENTS.

N/A MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

OVERDOSE OF DHMO CAN RESULT IN CONGESTIVE HEART FAILURE, PULMONARY EDEMA AND

N/A

EMERGENCY AND FIRST AID PROCEDURES: APPLIED PETROCHEMICAL RESEARCH'S METHOD OF HAZARD COMMUNICATION IS COMPRISED OF PRODUCT LABELS AND MATERIAL SAFETY DATA SHEETS.

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-----SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE ------

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: SPILLS - ABSORB THE SLURRY WITH SAWDUST OR OTHER ABSORBENT. DISPOSE OF THE PRODUCT AS SOLID WASTE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

WASTE DISPOSAL METHOD: WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL ENVIRONMENTAL CONTROL REGULATIONS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: LIQUID CHEMICAL GOGGLES SHOULD BE WORN. KEEP CONTAINER TIGHTLY CLOSED. PROTECT FROM FREEZING. WHEN DHMO FREEZES IONIC BONDS CAN FORM BETWEEN HYDRONIUM AND HYDROXIDE IONS FORMING AT LEAST ONE OF TEN KNOWN CHRYSTAL STRUCTURES AND RESULTING IN AN INCREASE IN VOLUME POSSIBLY RUPTURING CONTAINERS CAUSING A SPILL.

STORAGE TEMPERATURE (MIN/MAX) ----40 DEG. F / 100 DEG. F

OTHER PRECAUTIONS:

SPECIAL SENSITIVITY - NONE

REGULATORY INFORMATION:

TSCA: LISTED ON THE TSCA CHEMICAL SUBSTANCE INVENTORY.

SARA: THIS MATERIAL DOES NOT CONTAIN ANY SUBSTANCES ON THE LIST OF TOXIC CHEMICALS SUBJECT TO SECTION 313 OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA TITLE III)

RCRA: NOT A HAZARDOUS WASTE

TRANSPORTATION: DOT (DOMESTIC SURFACE) --- NON REGULATED.

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-----SECTION VIII - CONTROL MEASURES ------

RESPIRATORY PROTECTION (SPECIFY TYPE): OBSERVE OSHA REGULATIONS FOR RESPIRATOR USE (CFR 1910.134)

VENTILATION: ACGIH INDUSTRIAL VENTILATION SHOULD BE CONSULTED FOR GUIDANCE ABOUT ADEQUATE VENTILATION

LOCAL EXHAUST: N/A MECHANICAL (GENERAL): N/A SPECIAL: N/A OTHER: N/A

PROTECTIVE GLOVES: BUTYL RUBBER, NITRILE RUBBER, PVA OR LATEX

EYE PROTECTION: SAFETY GLASSES SHOULD BE WORN.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: COVER EXPOSED SKIN WITH APPROPRIATE CLOTHING (LAB COAT)

WORK/HYGIENIC PRACTICES:

THIS INFORMATION IS FURNISHED WITHOUT WARRANTY, EXPRESSED OR IMPLIED, EXCEPT

THAT IT IS ACCURATE TO THE BEST KNOWLEDGE OF APPLIED PETROCHEMICAL RESEARCH.

THE DATA ON THIS RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED HEREIN.

APPLIED PETROCHEMICAL RESEARCH ASSUMES NO LEGAL RESPONSIBILITY FOR USE OR

RELIANCE UPON THESE DATA.

(REPRODUCE LOCALLY)

OSHA 174, SEPT. 1985