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CHEMETRICS INC -- R-5511, CHLORINE CHEMETS, ULR CHEMETS, VACUETTES AND(SUPDAT) -- 6640-01-462-5692

============= Product Identification ==================

Product ID:R-5511, CHLORINE CHEMETS, ULR CHEMETS, VACUETTES AND(SUPDAT)

MSDS Date:02/01/1999

FSC:6640

NIIN:01-462-5692

MSDS Number: CJRKT === Responsible Party ===

Company Name: CHEMETRICS INC

Address:ROUTE 28
City:CALVERTON

State:VA ZIP:20138 Country:US Info Phon

e Num:800-356-3072; 540-788-9026

Emergency Phone Num:703-590-9204; 540-439-3860

CAGE:7K791

=== Contractor Identification === Company Name:CHEMETRICS INC

Address:ROUTE 28 Box:City:CALVERTON

State:VA ZIP:22016 Country:US

Phone:800-356-3072; 540-788-9026

CAGE:7K791

======= Composition/Information on Ingredients ========

Ingred Name: FORMALDEHYDE SOLUTION, 37%

CAS:50-00-0

RTECS #:LP8925000

< Wt:.2

OSHA PEL:3 PPM, C ACGIH TLV:2 PPM, C

ACGIH STEL:C0.37 MG/M3;C0.3 PPM

EPA Rpt Qty:100 L

BS

DOT Rpt Qty:100 LBS

Ingred Name:PHOSPHORIC AICD, MONOPOTASSIUM SALT; (POTASSIUM PHOSPHATE MONOBASIC)

CAS:7778-77-0

RTECS #:TC6615500

= Wt:2.

Ingred Name: METHANOL

CAS:67-56-1

RTECS #:PC1400000

= Wt:4.

OSHA PEL:260 MG/M3;200 PPM ACGIH TLV:262 MG/M3;200 PPM ACGIH STEL:328 MG/M3;250 PPM

EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name: WATER; (DEIONIZED WATER)

CAS:7732-18-5

RTECS #:ZC0110000

> Wt:93.

Ingred Name: OTHER COMPONENTS

< Wt:1.

====== Hazards Identifica

tion ========

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Health Hazards Acute and Chronic:ACUTE: IRRITATION. CHRONIC: IRRITATION AND SENSITIZATION DERMATITIS.

Explanation of Carcinogenicity:FORMALDEHYDE: IARC MONOGRAPHS ON EVALUATION OF CARCINOGENIC RISK OF CHEMICALS TO MAN, VOL 62, PG 217, 1995: GROUP 2A. NTP 8TH ANNUAL REPORT ON CARCINOGENS, 1994:

ANTICIPATD TO BE CARCINOGEN. ANIMAL: N ASAL T

UMORS. OSHA REGULATED:

29 CFR 1910.1048.

Effects of Overexposure:SEE HEALTH HAZARDS.

Medical Cond Aggravated by Exposure: MAY CAUSE IRRITATION TO EYES, SKIN AND MUCOUS MEMBRANES.

First Aid:EYES: IMMEDIATELY FLUSH WITH WATER FOR AT LEAST 15 MINUTES. SKIN:IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES. INGESTION: SEEK MEDICAL ATTENTION. INHALATION: REMOVE TO FRESH AIR.

======== Fire Fighting Measures

Extinguishing Media:DRY CHEMICAL OR CARBON DIOXIDE. Fire Fighting Procedures: USE NIOSH APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT. Unusual Fire/Explosion Hazard:NFPA RATINGS: HEALTH - 1; FLAMMABILITY -0: REACTIVITY - 0. ========= Accidental Release Measures ============= Spill Release Procedures: TAKE UP WITH ABSORBENT MATERIAL. PLACE IN SMALL CONTAINERS FOR DISPOSAL. ============= Handling and Storage ================= Han dling and Storage Precautions:PRODUCT SHOULD BE STORED IN THE DARK AND AT ROOM TEMPERATURE; HOWEVER, TEMPERATURES UP TO 120F OR EVEN BELOW FREEZING WILL NOT NORMALLY AFFECT REAGENT PERFORMANCE. AVOID CONTACT WITH EYES. FRAGILE: LI QUID IN GLASS. HANDLE WITH CARE. Other Precautions: ALWAYS WEAR EYE PROTECTION WHEN WORKING WITH THESE AMPOULES. WARNING: DO NOT BREAK TIP OF AMPOULE UNLESS IT IS COMPLETELY IMMERSED IN YOUR SAMPLE. BREAKING TIP IN AIR MAY CUSE GLASS AMPOULE TO S HATTER . IF THIS PROD IS USED AS DIRECTED, THE USER WILL NOT COME IN CONTACT WITH OR BE EXPOSED TO ANY OF ITS CHEM COMPONENTS. ===== Exposure Controls/Personal Protection ======== Respiratory Protection: NIOSH APPROVED RESPIRATOR APPROPRIATE FOR EXPOSURE OF CONCERN. Protective Gloves: IMPERVIOUS GLOVES. Eye Protection: ANSI APPROVED CHEMICAL WORKERS GOGGLES. Other Protective Equipment: EYE WASH & DELUGE SHOWER MEETING ANSI DESIGN CRITERIA. Work Hygienic Practice s:WASH THOROUGHLY AFTER HANDLING. Supplemental Safety and Health MFR'S TRADE NAME/PART NO: VACU-VIALS. MFR INFO: FAX # (540) 788-4856 -E-MAIL TECHINFO @ CHEMETRICS COM. ========= Physical/Chemical Properties =========== Boiling Pt:=95.C, 203.F Melt/Freeze Pt:=0.C, 32.F Spec Gravity:1 (H*2O=1) pH:4 Solubility in Water:COMPLETE

========= Stability and Reactivity Data =========

Appearance and Odor: COLORLESS LIQUID; NO ODOR.

Stability Indicator/Materials

Hazardous Decomposition Products:NONE.
========== Toxicological Information ===========
Toxicological Information:ANIMAL TOXICOLOGY: TEST FOR DOT HAZARD CLASSIFICATION: TEST ON NA2O X-TYPE SIEVES GAVE THE FOLLOWING RESULTS: 1-HOUR LC50 (RAT) > 2.8 MG/L. 48-HOUR DERMAL LD50 (RABBIT) EST. > 2,000 MG/KG. NOT CONSIDE RED AN OCULAR IRRITANT. TESTS FOR FDA APPROVAL FOR USE IN FOODS: NOT A FOOD-GRADE PRODUCT. HUMAN TOXICOLOGY: MOLECULAR SIEVES ARE NO N-FIBROUS, SYNTHETIC AHUMANSILICATES (ZEOLITES) NOT TO BE CONFUSED W ITH NATURAL ZEOLITES. ALL STUDIES TO DATE INDICATE THAT THEY DO NOT CAUSE
SIGNIFICANT HEALTH PROBLEMS.
=========== Ecological Information =============
Ecological:NOT KNOWN TO HAVE ANY ADVERSE EFFECT ON THE AQUATIC EVNIRONMENT WHEN PROPERLY DISPOSED. INSOLUBLE AND NONTOXIC.
======== Disposal Considerations ===========
Waste Disposal Methods:DISPOSE OF I/A/W ALL FEDE RAL, STATE AND LOCAL REGULATIONS.
========= MSDS Transport Information ===========
Transport Information:DOT: NOT CLASSIFIED AS A HAZARDOUS MATERIAL.
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SARA Title III Information:EPA-THIS PRODUCT CONTAINS NO TOXIC CHEMICALS IN EXCESS OF THE APPLICABLE DE MINIMIS CONCENTRATIONS AS SPECIFIED UNDER 313 OF TITLE III SARA. Federal Regulatory Information:TSCA: EPA HAS DEFINED ZEOLITES AS COMPLEX
PRODUCTS CONSISTING OF SILICA (SIO2) AND ALUMINA (AL2O3), IN VARIOUS PROPORTIONS PLUS METALLIC OXIDES AND CERTAIN CATIONS. FOR PURPOSES OF TSCA, ZEOLITES ARE STATUTORY MIXTURES. OSHA-PEL: MOLECULAR SIEVE-NOT LISTED IN 29 CFR 1910.1000. USDANOT APPLICABLE. FDANOT APPLICABLE.
============= Other Information ===============
Disclaims on (a new ideal with this information by the committee area size).

to Avoid:YES

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rtment

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