ORION MATERIAL SAFETY DATA SHEET

ORION RESEARCH INCORPORATED THE SCHRAFFT CENTER 529 MAIN STREET BOSTON, MA 02129 USA TELEPHONE 617-242-3900

## I. PRODUCT IDENTIFICATION

PRODUCT NAME:

ORION APPLICATION SOLUTION - CALCIUM IONIC STRENGTH ADJUSTOR

CATALOG NO.: 932011 EFFECTIVE DATE: 9/07/91

HAZARDOUS SHIPMENT LABELING: DOT-NONE IATA-NONE

TITLE: QUALITY ASSURANCE CHEMIST TITLE: DIRECTOR REGULATORY MATTERS PREPARED BY: THOMAS F. FLYNN APPROVED BY: LYNN ORLOWITZ

## II. HAZARDOUS INGREDIENTS (IDENTITY INFORMATION)

HAZARDOUS COMPONENTS\* SPECIFIC CHEMICAL IDENTITY: CAS NO. % COMMON NAME(S)

PEL

OSHA ACGIH TLV

LD 50 MG/KG

(ORL-MUS)

POTASSIUM CHLORIDE (NACL) \*\* 7447-40-7 29.8 NONE

NONE 383

DEIONIZED WATER (H2O) \*\*

NONE 190,000

7732-18-5 70.2 NONE (IPR-MUS)

\* CHEMICALS WHICH ARE NOT CLASSIFIED AS HAZARDOUS PER U.S. OSHA GUIDELINES (29CFR PARTS 1915.2 OR 1916.2) OR THE MASSACHUSETTS SUBSTANCE LIST (105CMR670.000 APPENDIX A) WILL NOT NECESSARILY BE LISTED ON THIS FORM EVEN THOUGH ONE OR MORE MAY BE CONSTITUENT OF THIS PRODUCT.

NA\* NOT AVAILABLE OR NOT APPLICABLE.

\*\* NON-HAZARDOUS COMPONENT.

PAGE 1

III. PHYSICAL DATA

BOILING POINT (760 MM HG): 100 C SPECIFIC GRAVITY (H2O = 1): 1.01 PH @ 25 C: 5.2 - 7.5 VOLATILES, % BY WT.: NA VAPOR DENSITY (AIR = 1): NA APPEARANCE AND ODOR: COLORLESS, ODORLESS LIQUID FREEZING POINT: -10 C VAPOR PRESSURE @: NA\* SOLUBILITY IN WATER, % BY WT. @: MISCIBLE EVAPORATION RATE (BUTYL, ACETATE = 1): NA

IV. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (TEST METHOD): NOT FLAMMABLE AUTOIGNITION TEMPERATURE: NA

FLAMMABLE LIMITS IN AIR, % BY VOLUME: LOWER-NA UPPER-NA EXTINGUISHING MEDIA: WATER, CO2, DRY CHEMICAL SPECIAL FIRE-FIGHTING PROCEDURES: NONE UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE

V. REACTIVITY DATA

\_\_\_\_\_\_

STABILITY: STABLE

CONDITIONS TO AVOID: NONE

INCOMPATIBILITY (MATERIALS TO AVOID): NONE, SUITABLE FOR GENERAL STORAGE.

HAZARDOUS DECOMPOSITION PRODUCTS: NONE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITION TO AVOID: NONE

VI. HEALTH HAZARD DATA

ROUTE(S) OF ENTRY: INHALATION?-NO SKIN?-NO INGESTION?-NO

HEALTH HAZARDS (ACUTE AND CHRONIC):

LOW HAZARD FOR BOTH CHRONIC AND ACUTE VIA ALL ROUTES OF ENTRY.

CARCINOGENICITY: IARC MONOGRAPHS? NOT FOUND ON THESE LISTS.

SIGNS AND SYMPTOMS OF EXPOSURE:

NONE REPORTED.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: WILL CAUSE STINGING AND IRRITATION IN AN OPEN WOUND.

PAGE 2

EMERGENCY AND FIRST AID PROCEDURES:

WASH OFF SKIN OR EYES WITH WATER.

VII. PRECAUTIONS (SAFE HANDLING AND USE)

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: CLEAN UP AND WASH DOWN DRAIN.

WASTE DISPOSAL METHOD:

WASH DOWN DRAIN. OBSERVE ALL FEDERAL, STATE, AND LOCAL LAWS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

STORE AT ROOM TEMPERATURE TO PROTECT PRODUCT INTEGRITY. NFPA RATING: SCALE (0-4); HEALTH-0, FIRE-0, REACTIVITY-0, SPECIFIC-0.

OTHER PRECAUTIONS:

SARA TITLE III: KCL DOES NOT APPEAR ON ANY OF THE SARA LISTS OR CAL. PROP. 65. REPORTED IN EPA TSCA INVENTORY.

VIII. CONTROL MEASURES

\_\_\_\_\_\_

RESPIRATORY PROTECTION (SPECIFY TYPE): NONE

**VENTILATION:** 

LOCAL EXHAUST-NONE

MECHANICAL (GENERAL) - NONE

SPECIAL-NONE

OTHER-NONE

PROTECTIVE GLOVES: YES

EYE PROTECTION: SAFETY GLASSES

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: NOT REQUIRED

WORK/HYGIENIC PRACTICES:

EMERGENCY EYE WASH STATION SHOULD BE AVAILABLE.

LIABILITY IS EXPRESSLY DISCLAIMED FOR ANY LOSS OR INJURY ARISING OUT OF THE USE OF THIS INFORMATION OR THE USE OF ANY MATERIALS DESIGNATED. SAFE USE OF THE MATERIALS IS THE RESPONSIBILITY OF THE USER.

PAGE 3 (LAST PAGE)