

ORION MATERIAL SAFETY DATA SHEET

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I. PRODUCT IDENTIFICATION

PRODUCT NAME:
ORION APPLICATION SOLUTION - POTASSIUM IONIC STRENGTH ADJUSTOR.

CATALOG NO.: 931911
EFFECTIVE DATE: 9/07/91

HAZARDOUS SHIPMENT LABELING: DOT-NONE IATA-NONE

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

II. HAZARDOUS INGREDIENTS (IDENTITY INFORMATION)

HAZARDOUS COMPONENTS*	CAS NO.	%	OSHA PEL	ACGIH TLV	LD 50 MG/KG
SODIUM CHLORIDE (NACL)**	7647-14-5	29.2	NONE	NONE	8,000 (ORL-RAT)
DEIONIZED WATER (H2O)**	7732-18-5	70.8	NONE	NONE	629,000 (ORL-DOG)

* 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 A CONSTITUENT OF THIS PRODUCT.

NA* NOT AVAILABLE OR NOT APPLICABLE.

** NON-HAZARDOUS COMPONENT.

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III. PHYSICAL DATA

BOILING POINT (760 MM HG): 100 C
SPECIFIC GRAVITY (H2O = 1): 1.13
PH @ 25 C: 5.2 - 7.5
VOLATILES, % BY WT.: NA
VAPOR DENSITY (AIR = 1): NA
APPEARANCE AND ODOR: COLORLESS, ODORLESS LIQUID.
FREEZING POINT: -11 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: NTP? IARC MONOGRAPHS? OSHA REGULATED?
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.

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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: NA CL 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.

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