

ORION MATERIAL SAFETY DATA SHEET

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I. PRODUCT IDENTIFICATION

PRODUCT NAME:  
ORION APPLICATION SOLUTION - RESIDUAL CHLORINE STANDARD

CATALOG NO.: 977007  
EFFECTIVE DATE: 10/03/91

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\*

SPECIFIC CHEMICAL IDENTITY: COMMON NAME(S)	CAS NO.	%	OSHA PEL	ACGIH TLV	LD 50 MG/KG
POTASSIUM IODATE (KIO3)	7758-05-6	0.01	NONE	NONE	531 (ORL-MUS)
**DEIONIZED WATER (H2O)	7732-18-5	99.99	NONE	NONE	190,000 (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 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): 1.0  
PH @ 25 C: (5.5 - 7.5)  
VOLATILES, % BY WT.: NA  
VAPOR DENSITY (AIR = 1): NA  
APPEARANCE AND ODOR: CLEAR, ODORLESS SOLUTION  
FREEZING POINT: 0 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: EXCESSIVE HEATING

INCOMPATIBILITY (MATERIALS TO AVOID):  
ALUMINUM, ARSENIC, REDUCING MATERIALS, METAL SULFIDES.

HAZARDOUS DECOMPOSITION PRODUCTS:  
IODINE UPON THERMAL DECOMPOSITION.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR  
CONDITION TO AVOID: NA

VI. HEALTH HAZARD DATA

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

HEALTH HAZARDS (ACUTE AND CHRONIC):  
LOW HAZARD BOTH ACUTE AND CHRONIC FOR ALL ROUTES OF EXPOSURE.

CARCINOGENICITY: NTP? IARC MONOGRAPHS? OSHA REGULATED?  
NOT FOUND ON THESE LISTS.

SIGNS AND SYMPTOMS OF EXPOSURE:  
POSSIBLE IRRITATION OF SKIN.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:  
IRRITATION OR STINGING IN A CUT OR WOUND.

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EMERGENCY AND FIRST AID PROCEDURES:  
WASH OFF CONTACT AREA WITH LARGE AMOUNTS OF WATER.

VII. PRECAUTIONS (SAFE HANDLING AND USE)

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:  
CLEAN UP AREA AND SET ASIDE FOR WASTE DISPOSAL.

WASTE DISPOSAL METHOD:  
OBSERVE ALL FEDERAL, STATE, AND LOCAL LAWS WHEN DISPOSING OF THIS PRODUCT.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:  
NFPA RATING: SCALE (0-4); HEALTH-0, FIRE-0, REACTIVITY-0, SPECIFIC-0.

OTHER PRECAUTIONS:  
SARA TITLE III: THIS PRODUCT DOES NOT CONTAIN ANYTHING THAT IS ON THE  
SARA LISTS OR CAL PROP 65 LISTING. 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: NONE

EYE PROTECTION: SAFETY GLASSES

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: NONE

WORK/HYGIENIC PRACTICES:  
EMERGENCY EYE WASH 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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