

ATI ORION MATERIAL SAFETY DATA SHEET  
ANALYTICAL TECHNOLOGY INCORPORATED

ORION RESEARCH  
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I. PRODUCT IDENTIFICATION

PRODUCT NAME:  
ORION APPLICATION SOLUTION - CHLORIDE STANDARD

CATALOG NO.: 941706, 941707, 941708  
EFFECTIVE DATE: 10/10/94

HAZARDOUS SHIPMENT LABELING: DOT-NONE IATA-NONE

PREPARED BY: THOMAS F. FLYNN TITLE: QUALITY ASSURANCE CHEMIST  
APPROVED BY: THOMAS F. FLYNN 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
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SODIUM CHLORIDE (HALITE), (NACL)**	7647-14-5	<1.0	NONE	NONE	8,000 (ORL-RBT)
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(THIS IS A NON-HAZARDOUS SOLUTION).

DEIONIZED WATER (H2O)**	7732-18-5	>99.0	NA	NA*	629,000 (ORL-DOG) LDLO
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\* 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/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, COLORLESS, 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

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FLASH POINT (TEST METHOD): NA  
AUTOIGNITION TEMPERATURE: NA

FLAMMABLE LIMITS IN AIR, % BY VOLUME: LOWER-NA UPPER-NA  
EXTINGUISHING MEDIA: ANY  
SPECIAL FIRE-FIGHTING PROCEDURES:  
NONE; THIS PRODUCT IS NON-FLAMMABLE.  
UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE

V. REACTIVITY DATA

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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

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

HEALTH HAZARDS (ACUTE AND CHRONIC):  
BECAUSE OF LOW CONCENTRATION OF SALT (LESS THAN 1%), THIS PRODUCT DOES NOT  
POSE A SERIOUS ACUTE OR CHRONIC HAZARD VIA SKIN OR INHALATION ROUTES.  
INGESTION: NOT A SERIOUS HEALTH HAZARD.

CARCINOGENICITY: NTP?-NO IARC MONOGRAPHS?-NO OSHA REGULATED?-NO

SIGNS AND SYMPTOMS OF EXPOSURE: NONE REPORTED.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:  
NONE REPORTED.

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EMERGENCY AND FIRST AID PROCEDURES:  
SKIN AND EYES: FLUSH WITH LARGE AMOUNTS OF WATER.

VII. PRECAUTIONS (SAFE HANDLING AND USE)

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

WASTE DISPOSAL METHOD:  
CONSULT ALL FEDERAL, STATE AND LOCAL LAWS FOR PROPER DISPOSAL PRACTICES.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:  
SUITABLE FOR ALL GENERAL STORAGE. NFPA RATING: SCALE (0-4); HEALTH-0,  
FIRE-0, REACTIVITY-0, SPECIFIC-NONE.

OTHER PRECAUTIONS:  
SARA TITLE III: NOT FOUND ON SARA 313 OR CAL. PROP. 65 LISTING.  
COMPONENTS ARE REPORTED IN EPA TSCA INVENTORY.

VIII. CONTROL MEASURES

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RESPIRATORY PROTECTION (SPECIFY TYPE): NO

VENTILATION:  
LOCAL EXHAUST-NONE  
MECHANICAL (GENERAL)-NONE  
SPECIAL-NONE

OTHER-NONE

PROTECTIVE GLOVES: NO

EYE PROTECTION: NO

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: NA

WORK/HYGIENIC PRACTICES:

NO EATING OR DRINKING WHILE WORKING WITH THIS PRODUCT.

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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