

ATI ORION MATERIAL SAFETY DATA SHEET

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I. PRODUCT IDENTIFICATION

PRODUCT NAME: ORION APPLICATION SOLUTION PH 10.01 BUFFER

CATALOG NO. 910110

EFFECTIVE DATE: 07/20/93

HAZARDOUS SHIPMENT LABELING: DOT: NA IATA: NA

PREPARED BY: TITLE: QUALITY ASSURANCE CHEMIST

APPROVED BY: LYNN ORLOWITZ TITLE: DIRECTOR REGULATORY MATTERS

II. HAZARDOUS INGREDIENTS (IDENTIFY INFORMATION)

HAZARDOUS COMPONENTS* SPECIFIC CHEMICAL IDENTITY: COMMON NAME(S)	CAS NO.	%	OSHA PEL	ACGIH TLV	LD 50 MG/KG
SODIUM BICARBONATE (NAHCO3)	144-55-8	0.209	NONE	NONE	4220 (ORL-RAT)
SODIUM CARBONATE (NA2CO3)	497-19-8	0.264	NONE	NONE	117 (PR-MUS)
METHYLPARABEN (CGH8O3)	99-76-3	0.001	NONE	NONE	NA
FD&C BLUE (C37H36N2O8S3*2NA)	384445-9	0.0005	NONE	NONE	5.5 G/KG (SEN-RAT) LDLO
** DEIONIZED WATER (H2O)	7732-18-5	99.526	NONE	NONE	190,000 (PR-MUS)

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III. PHYSICAL DATA

BOILING POINT 750 MM HG: 100 DEGREES C

FREEZING POINT: 0 DEGREES C

SPECIFIC GRAVITY (H2O=1): 1.0

VAPOR PRESSURE @: NA

PH @ 25 DEGREES C: 10.01

SOLUBILITY IN WATER, % BY WT @: MISCIBLE

VOLATILES, % BY WT.: NA

EVAPORATION RATE (BUTYL, ACETATE = 1): NA

VAPOR DENSITY (AIR = 1): NA

APPEARANCE AND ODOR: LIGHT BLUE, ODORLESS LIQUID

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, FOAM OR SPRAY

SPECIAL FIRE-FIGHTING PROCEDURES: NONE, NON-FLAMMABLE

UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE

V. REACTIVITY DATA

STABILITY: STABLE

CONDITIONS TO AVOID: NONE

INCOMPATIBILITY (MATERIALS TO AVOID): NAK ALLOY, NH4H2PO4,AL,P2O5,H2SO4

HAZARDOUS DECOMPOSITION PRODUCTS: CO2 UPON HEATING TO DECOMPOSITION

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITION TO AVOID: NONE

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VI. HEALTH HAZARD DATA

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

HEALTH HAZARDS (ACUTE AND CHRONIC):

ACUTE: THIS SOLUTION IS CONSIDERED NON-HAZARDOUS DUE TO THE LOW LEVELS OF SALT PRESENT. CHRONIC: POSSIBLE IRRITATION OF SKIN UPON PROLONGED EXPOSURE.

CARCINOGENICITY: NTP? NOT FOUND IARC MONOGRAPHS?*** (ANIMAL POSITIVE)
OSHA REGULATED? NOT FOUND

SIGNS AND SYMPTOMS OF EXPOSURE: SKIN IRRITATION

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: COULD AGGRAVATE DISEASES OF THE SKIN.

EMERGENCY AND FIRST AID PROCEDURES: WASH OFF CONTACT AREA WITH WATER. IF INGESTED, GIVE LARGE AMOUNTS OF WATER. CONTACT PHYSICIAN.

VII. PRECAUTIONS (SAFE AND HANDLING AND USE)

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

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

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:
SUITABLE FOR ANY GENERAL HANDLING AND STORAGE. NFPA RATING: SCALE (0-4);
HEALTH - 1, FIRE - 0, REACTIVITY-0, SPECIFIC-NONE.

OTHER PRECAUTIONS:
FD&C BLUE NO. 1 IS LISTED ON CAL PROP 65

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VIII. CONTROL MEASURES

RESPIRATORY PROTECTION (SPECIFY TYPE): NONE

VENTILATION: LOCAL EXHAUST: NO SPECIAL: NO

VENTILATION: MECHANICAL (GENERAL): NO OTHER: NO

PROTECTIVE GLOVES: YES EYE PROTECTION: SAFETY GLASSES

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: NO

WORK/HYGIENIC PRACTICES: NO EATING OR DRINKING WHILE WORKING WITH THIS
PRODUCT.

* 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

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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