

ATI ORION MATERIAL SAFETY DATA SHEET

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I. PRODUCT IDENTIFICATION

PRODUCT NAME: PERPHECT BUFFER 7

CATALOG NO: 910710, 910725, 910750 EFFECTIVE DATE: 07/01/94

HAZARDOUS SHIPMENT LABELING: DOT: NA IATA: NA

PREPARED BY: THOMAS F. FLYNN TITLE: QUALITY ASSURANCE CHEMIST

APPROVED BY: THOMAS F. FLYNN 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
POTASSIUM PHOSPHATE (KH ₂ PO ₄)	7778-77-0	0.284	NONE	NONE	NONE LISTED
SODIUM PHOSPHATE (NA ₂ HPO ₄)	7558-79-4	0.413	NONE	NONE	298 (IVN-DOG)
SODIUM CHROMATE (NA ₂ CRO ₄)	7775-11-3	0.013	50 UG/M3	50 UG/M3	57 (IRR-RAT)
POTASSIUM DICHROMATE (K ₂ CRO ₇)	778-50-9	0.003	50 UG/M3	50 UG/M3	37 (INR-RAT)
**DEIONIZED WATER (H ₂ O)	7732-18-5	99.287	NONE	NONE	190,000 (ORL-DOG)

PAGE 1

III. PHYSICAL DATA

BOILING POINT 750 MM HG: 100 DEGREES C

FREEZING POINT: 0 DEGREES C

SPECIFIC GRAVITY (H₃O=1): 1.0

VAPOR PRESSURE @: NA*

PH @ 25 DEGREES C: 7.00

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 YELLOW, 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

UNUSUAL FIRE AND EXPLOSIVE HAZARDS: NONE

V. REACTIVITY DATA

STABILITY: STABLE

CONDITIONS TO AVOID: NONE

INCOMPATIBILITY (MATERIALS TO AVOID): MAGNESIUM AND SODIUM METALS

HAZARDOUS DECOMPOSITION PRODUCTS: POSSIBLE EVOLUTION OF FUMES FROM PHOSPHATE
IF HEATED

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID: NONE

PAGE 2

VI. HEALTH HAZARD DATA

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

HEALTH HAZARDS (ACUTE AND CHRONIC):
LOW HAZARD FOR BOTH AND CHRONIC BECAUSE OF LOW CONCENTRATION OF SALTS.

CARCINOGENICITY: NTP? NOT FOUND IARC MONOGRAPHS?*** NOT FOUND
OSHA REGULATED? NOT FOUND

SIGNS AND SYMPTOMS OF EXPOSURE:
IRRITATION OF SKIN

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:
POSSIBLE AGGRAVATION OF SKIN DISEASES.

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

VII. PRECAUTIONS (SAFE HANDLING AND USE)

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
WASH DOWN DRAIN WITH WATER IF LOCAL LAW ALLOWS

WASTE DISPOSAL METHOD:
CONSULT WITH AND OBSERVE ALL FEDERAL, STATE AND LOCAL LAWS WHEN DISPOSING OF

THIS PRODUCT.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:
SARA TITLE III. RELEASES OF NA₂HPO₄ ARE SUBJECT TO REPORTING UNDER SEC. 302 OF
TITLE III.

OTHER PRECAUTIONS:
NFPA RATING: SCALE (0-4); HEALTH-0, FIRE-0, REACTIVITY-0, SPECIFIC-NONE. NOT
AFFECTED BY CAL PROPOSITION 65. COMPONENTS ARE LISTED IN THE TSCA INVENTORY.

PAGE 3

VIII. CONTROL MEASURES

RESPIRATORY PROTECTION (SPECIFY TYPE): NONE

VENTILATION: LOCAL EXHAUST: NO SPECIAL: NO

VENTILATION: MECHANICAL (GENERAL): NO OTHER: NO

PROTECTIVE GLOVES: NO 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 COMPONENTS

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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PAGE 4 (LAST PAGE)