

ATI-ORION MATERIAL SAFETY DATA SHEET

ORION RESEARCH INCORPORATED
THE SCHRAFFT CENTER
529 MAIN STREET, BOSTON, MA 02129 USA
TELEPHONE 617-242-3900

I. PRODUCT IDENTIFICATION

PRODUCT NAME: NITRITE INTERFERENCE SUPPRESSOR

CATALOG NO.: 934610

EFFECTIVE DATE: 05/20/94

HAZARDOUS SHIPMENT LABELING: DOT: NONE. IATA: NONE.

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

II. HAZARDOUS INGREDIENTS (IDENTIFY INFORMATION)

HAZARDOUS COMPONENTS*	CAS NO.	%	OSHA PEL	ACGIH TLV	LD50 50 MG/KG
SPECIFIC CHEMICAL IDENTITY: COMMON NAMES					
GLUTAMIC ACID (C5HGNO3)	56-86-0	0.74	NONE	NONE	TDLO-117 MG/KG (IVN-HMN)
SILVER SULFATE (AG2SO4)	142-47-2	0.94	NONE	NONE	4,253 (IPR-RAT)
MONO-SODIUM GLUTAMATE (C5H3NNAO4)	10294-26-5	0.31	NONE	NONE	NONE
**DEIONIZED WATER (H2O)	7732-18-5	98.01	NONE	NONE	190,000 (IPR-MUS)

III. PHYSICAL DATA

BOILING POINT 750 MM HG:
SPECIFIC GRAVITY (H2O=1): 1.0
PH @ 25 C: 5.0-7.0
VOLATILES, % BY WT.: NA
VAPOR DENSITY (AIR=1): NA
APPEARANCE AND ODOR: COLORLESS, ODORLESS SOLUTION
FREEZING POINT: -2 C
VAPOR PRESSURE @: NA*
SOLUBILITY IN WATER, % BY WT @: MISCIBLE
EVAPORATION RATE (BUTYL ACETATE=1): NA

* 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

PAGE 1

IV. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (TEST METHOD):
AUTOIGNITION TEMPERATURE:

FLAMMABLE LIMITS IN AIR, % BY VOLUME: LOWER: NA UPPER: NA

EXTINGUISHING MEDIA: ANY

SPECIAL FIRE-FIGHTING PROCEDURES: NONE

UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE. THIS IS A NON FLAMMABLE SOLUTION.

V. REACTIVITY DATA

STABILITY: UNSTABLE
 STABLE X
CONDITIONS TO AVOID:

INCOMPATIBILITY (MATERIALS TO AVOID): NONE

HAZARDOUS DECOMPOSITION PRODUCTS: NONE

HAZARDOUS POLYMERIZATION: MAY OCCUR
 WILL NOT OCCUR X
CONDITIONS TO AVOID: NONE

VI. HEALTH HAZARD DATA

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

HEALTH HAZARDS (ACUTE AND CHRONIC):
INTERNAL: CAN CAUSE POISONING AND DEPOSITION OF SILVER IN THE INTERNAL ORGANS.
MAY IRRITATE MUCOUS MEMBRANES; EXTERNAL: IRRITATE SKIN.

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

SIGNS AND SYMPTOMS OF EXPOSURE: IRRITATING OR DARKENING OF THE SKIN.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

EMERGENCY AND FIRST AID PROCEDURES: WASH OFF CONTACT AREA WITH WATER.
INTERNAL: CONSULT A PHYSICIAN. GIVE LARGE AMOUNTS OF WATER.

VII. PRECAUTIONS (SAFE HANDLING AND USE)

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

WASTE DISPOSAL METHOD: DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE AND
LOCAL LAWS.

PAGE 2

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: STORE AT ROOM TEMPERATURE AND
KEEP SEALED TO PROTECT PRODUCT INTEGRITY.
NFPA RATING: SCALE (0-4): HEALTH-1, FIRE-0, REACTIVITY-0, SPECIFIC-0.

OTHER PRECAUTIONS: COMPONENTS ARE REPORTED IN TSCA INVENTORY. NOT FOUND ON
CAL PROP 65 LISTING.

VIII. CONTROL MEASURES

RESPIRATORY PROTECTION (SPECIFY TYPE): NONE

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

PROTECTIVE GLOVES: YES, RUBBER OR PLASTIC.
EYE PROTECTION: SAFETY GLASSES
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: NA

WORK/HYGIENIC PRACTICES: WASH HANDS THOROUGHLY AFTER 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.

DOCUMENT NO. 221152-001

REV. A

PAGE 3 (LAST PAGE)