

ORION MATERIAL SAFETY DATA SHEET

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I. PRODUCT IDENTIFICATION

PRODUCT NAME: ORION APPLICATION SOLUTION - CALCIUM CHLORIDE STANDARD

CATALOG NO.: 922006

EFFECTIVE DATE: 8/25/91

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 ACGIH LD50
SPECIFIC CHEMICAL IDENTITY: PEL TLV 50 MG/KG
COMMON NAMES
CALCIUM CHLORIDE (CaCl₂) 10043-52-4 1.1 NOT LISTED NOT LISTED 1000 (ORL-RAT)
**DEIONIZED WATER (H₂O) 7732-18-5 98.9 NONE NONE 190,000 (IPR-MUS)

III. PHYSICAL DATA

BOILING POINT 750 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: COLORLESS, ODORLESS SOLUTION
FREEZING POINT: 0 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 OR NOT APPLICABLE

** = NON-HAZARDOUS COMPONENT

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IV. FIRE AND EXPLOSION HAZARD DATA

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

STABILITY: UNSTABLE
 STABLE X
CONDITIONS TO AVOID: NONE

INCOMPATIBILITY (MATERIALS TO AVOID): NONE, SUITABLE FOR ANY GENERAL STORAGE.

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? NO. INGESTION? YES.

HEALTH HAZARDS (ACUTE AND CHRONIC):
THIS PRODUCT IS A LOW HAZARD FOR SKIN AND INHALATION BECAUSE OF LOW
CONCENTRATION OF SALT. MODERATELY TOXIC BY INGESTION. CaCl₂ IS AN
EXPERIMENTAL TUMORIGENIC TD LO=112 GM/KG/20W=C ORL-RAT.

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

SIGNS AND SYMPTOMS OF EXPOSURE: POSSIBLE IRRITATION OF THE SKIN FOR REPEATED
EXPOSURE.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: MAY CAUSE BURNING AND
IRRITATION IN AN OPEN CUT.

EMERGENCY AND FIRST AID PROCEDURES:
WASH OFF SKIN AND EYES WITH WATER.
INTERNAL: CONSULT PHYSICIAN.

VII. PRECAUTIONS (SAFE HANDLING AND USE)

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: CLEAN UP AND WASH
DOWN DRAIN WITH WATER.

WASTE DISPOSAL METHOD: WASH DOWN DRAIN WITH WATER. OBSERVE ALL FEDERAL,
STATE AND LOCAL LAWS.

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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: STORE AT ROOM TEMPERATURE TO
PROTECT PRODUCT INTEGRITY.

NFPA RATING: SCALE (0-4): HEALTH-2, FIRE-0, REACTIVITY-0, SPECIFIC-NONE.

OTHER PRECAUTIONS: THIS PRODUCT IS NOT FOUND ON SARA TITLE III OR CAL.
PROP 65. 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: NO

WORK/HYGIENIC PRACTICES: WASH OFF HANDS AFTER USING 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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