

CAROLINA BIOLOGICAL SUPPLY -- 88-7791, 88-7793, 88-7795, 88-7810, 84-0910, SILVER NITRATE --  
6810-01-448-7142

===== Product Identification =====

Product ID:88-7791, 88-7793, 88-7795, 88-7810, 84-0910, SILVER NITRATE

MSDS Date:03/12/1998

FSC:6810

NIIN:01-448-7142

Status Code:A

MSDS Number: CJWCC

=== Responsible Party ===

Company Name:CAROLINA BIOLOGICAL SUPPLY

Address:2700 YORK RD

City:BURLINGTON

S

tate:NC

ZIP:27215-3387

Country:US

Info Phone Num:800-334-5551/910584-0381

Emergency Phone Num:(800)424-9300

Chemtrec Ind/Phone:(800)424-9300

CAGE:59896

=== Contractor Identification ===

Company Name:CAROLINA BIOLOGICAL SUPPLY CO

Address:2700 YORK RD

Box:City:BURLINGTON

State:NC

ZIP:27215-3387

Country:US

Phone:800-227-1150/910-584-0381

Contract Num:MDA414-98-A-0118-0051

CAGE:59896

===== Composition/Information on Ingredients =====

Ingred Name:SILVER NITRATE

CAS:7761-88-8

RTECS

#:VW4725000

= Wt:100.

OSHA PEL:0.01 MG/M3

ACGIH TLV:0.01 MG/M3

EPA Rpt Qty:1 LB

DOT Rpt Qty:1 LB

===== Hazards Identification =====

LD50 LC50 Mixture:ORAL LD50(MUS): 50 MG/ KG.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Health Hazards Acute and Chronic:TARGET ORGANS: BEHAVIORAL, LUNGS,  
TJORAX OR RESPIRATION, GASTROINTESTINAL, PATERNAL EFFECTS  
(SPERMATOGENESIS, TESTES, EPIDIDYMIS, SPERM DUCT), EFFECTS ON  
FERTILITY (MALE FERTILITY INDE

X). EYES- MAY CAUSE IRRITATION.

SKIN-MAY CAUSE IRRITATION. INGESTION-MAY CAUSE GASTROINTESTINAL  
DISCOMFORT. INHALATION-MAY CAUSE IRRITATION TO RESPIRATORY TRACT.

Explanation of Carcinogenicity:MATERIAL IS NOT LISTED (NTP, IARC, OSHA)  
AS CAUSING CANCER AGENTS.

===== First Aid Measures =====

First Aid:EYES-FLUSH WITH WATER FOR 15 MIN, RAISING & LOWERING EYELIDS  
OCCASIONALLY. GET MEDICAL AID IF IRRITATION PERSISTS.

SKIN-THOROUGHLY WASH EX

POSED AREA FOR 15 MIN. REMOVE CONTAMINATED

CLOTHING BEFORE REUSE. GET MEDICAL AID IF IRRITATION PERSISTS.

INGESTION-IF SWALLOWED, IF CONSCIOUS, GIVE PLENTY OF WATER.

IMMEDIATELY CALL A PHYSICIAN OR POISON CONTROL CENTER. NEVER GIVE  
NAYTHING BY MOUTH TO AN UNCONS CIOUS PERSON. INHALATION-REMOVE TO  
FRESH AIR. GIVE OXYGEN IF BREATHING IS DIFFICULT; GIVE ARTIFICIAL  
RESPIRATION IF BREATHING HAS STOPPED. KEEP PERSON WARM, QUIET, AND  
GET MEDICAL AID.

=====

Fire Fighting Measures =====

Fire Fighting Procedures:FIREFIGHTERS SHOULD WEAR FULL PROTECTIVE  
EQUIPMENT AND NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS.

Unusual Fire/Explosion Hazard:CONTACT WITH COMBUSTIBLE MATERIALS CAUSES  
FIRE OR INTENSIFICATION OF EXISTING FIRE. INCREASES FLAMMABILITY OF  
COMBUSTIBLE OR READILY OXIDIZABLE MATERIALS.

===== Accidental Release Measures =====

Spill Release Procedures:VENTILATE AREA OF SPILL. CLEA

N-UP PERSONNEL

SHOULD WEAR PROPER PROTECTIVE EQUIPMENT. AVOID CREATING DUST. SWEEP OR SCOOP UP AND CONTAINERIZE FOR DISPOSAL.

=====  
===== Handling and Storage =====

Handling and Storage Precautions:STORE IN A COOL, DRY, WELL- VENTILATED AREA. AWAY FROM COMBUSTIBLE OR READILY OXIDIZABLE MATERIAL.

Other Precautions:EMERGENCY OVERVIEW: MAY BE FATAL IF SWALLOWED. CAUSES BURNS.FUL OXIDIZER.

=====  
===== Exposure Controls/Personal Protection =====

=====

Respiratory Protection:NONE NEEDED UNDER NORMAL CONDITIONS OF USE WITH ADEQUATE VENTILATION. NIOSH APPROVED EQUIPMENT SHOULD BE WORN IF PELS ARE EXCEEDED.

Ventilation:LOCAL EXHUAST: YES. MECHANICAL (GENERAL): YES.

Protective Gloves:RUBBGBER, NEOPRENE, PVC OR EQUIVALENT.

Eye Protection:SPLASH PROOF CHEMICAL SAFETY GOGGLES SHOULD BE WORN AT ALL TIMES.

Other Protective Equipment:LAB COAT, EYE WASH, AND SAFETY SHOWER.

Supplemental Safety and Health

=====  
===== Physical/Chemical Properties =====

HCC:D1

Boiling Pt:=440.C, 824.F

Melt/Freeze Pt:=212.C, 413.6F

Spec Gravity:4.35

Solubility in Water:71%

Appearance and Odor:WHITE OR COLORLESS, ODORLESS CRYSTALS.

=====  
===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

ALKALIES, ANTIMONY SALTS, ARSENITES, BROMIDES, CARBONATES, CHLORATES, IODIDES, THIOCYANATES, FERROUS SALTS, HYPOPHOSPHITES, MORPHINE SALTS, OILS, CREOSOTE, PHOSPHATES, TANNIC ACI

D, ETHANOL,  
TARTARATES, VEGETABLE DECOCTIONS  
Stability Condition to Avoid: EXPOSURES TO AIR AND LIGHT, HEAT.  
Hazardous Decomposition Products: NITROGEN OXIDES, SILVER.  
Conditions to Avoid Polymerization: WILL NOT OCCUR.

===== Toxicological Information =====

Toxicological Information: IPR-MUS LD50: 34,000 MG/KG; ORL-MUS LD50: 50  
MG/KG; UNR-MAN LDLO: 29 MG/KG.

===== Ecological Information =====

Ecological: EPA WASTE NUMBERS: D00  
1, D011.

===== Disposal Considerations =====

Waste Disposal Methods: DISPOSE IN ACCORDANCE WITH ALL APPLICABLE  
FEDERAL, STATE AND LOCAL REGULATIONS. ALWAYS CONTACT A PERMITTED  
WASTE DISPOSER (TSD) TO ASSURE COMPLIANCE.

===== MSDS Transport Information =====

Transport Information: SILVER NITRATE, 5.1, UN1493, II.

===== Regulatory Information =====

SARA Title III Information: HAZARD CATEGORY  
FOR SARA SECTION 311/312  
REPORTING: ACUTE, CHRONIC, FIRE.  
Federal Regulatory Information: EPA TSCA STATUS: ON TSCA INVENTORY.

Disclaimer (provided with this information by the compiling agencies):  
This information is formulated for use by elements of the Department  
of Defense. The United States of America in no manner whatsoever,  
expressly or implied, warrants this information to be accurate and  
disclaims all liability for its use. Any person utilizing this  
document should seek competent professional advice to verify and  
assume responsibility for the suitability of this information to their  
particular situation.