DATE: INDEX G63246884 11/20/96 **** MATERIAL SAFETY DATA SHEET **** CAT NO: 578171 496700001 8 NBR: 31961 PAGE: ۲

Silver Nitrate 20810

**** SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION ****

Synonyms:
Nitric acid, silvar sall
Company Identification: Fisher Scientific MSDS Name: Silver Nitrate Cations Numbers: C3181 100, S181 25, S181 500, S181-, S181-100, S181-25, S181-500, S486 100,

For Information, call: 201-796-7100 For Information, call: 201-796-7100 Emergency Number: 201-796-7100 For CHEMIREC assistance, call: 800-424-9300

**** SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS ****

7761-88-8 Nitric acid, sliver(1+) salt Risk Phrases: 34 Chemical Name % % EINECS# EINECS#

**** SECTION 3 - HAZARDS IDENTIFICATION ****

EMERGENCY OVERVIEW

Appearance: White or colorioss crystats.
Danger! Strong oxidizer. Contact with other material may cause a lire. May cause severe expiratory and digessive tract irritation with possible burns. May cause severe eye and skin irritation with possible burns. May cause cyanosis with bluish skin.

Potential Health Effects Eye:

Skin Contact with eyes may cause severe irritation, and possible eye

Causes severe skin irritation. Causes skin burns.
Ingestion:
Harmful if swallowed. May cause severe gastrointestinal tract irritation with nausea, vomiting and possible burns.
Lethal dose for humans is 2 grams.

Inhalation:
Causes severe irritation of upper respiratory tract with coughing, burns, breathing difficulty, and possible come.
Chronic:
May cause methemoglobinemia, which is characterized by chocolare-brown colored blood, headache, weakness, dizziness, breath shortness, cyanosis, rapid heart rate, unconsciousness and possible dent.

death. Chronic Inhalation or ingestion may cause "argyrla", which is characterized by blue-gray pigmentation of the skin and mucous membranes. The condition develops slowly, usually after 2 - 25 years of exposure. There are no other symptoms or physical impairment associated with argyrla. Chronic skin contact may cause local argyrla, a permanent discoloration of the skin.

**** SECTION 4 - FIRST AID MEASURES ****

Eyes:

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Get medical aid immediately. Do NOT allow victim to rub or keep eyes closed.

Get medical aid immediately, immediately flush skin with pienty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion:

Do NOT induce vomiting. If victim is conscious and alart, give 2-4 coupluis of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately. Inhabiton:

Get medical aid immediately. Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If Notes to Physician:

Treet symptomatically and supportively.

symptomatically and supportively.

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**** SECTION 5 - FIRE FIGHTING MEASURES ****

General Information:

Strong oxidizer. Confact with combustible materials may cause a fire. Wear appropriate projective clothing to prevent contact with skin and eyes. Wear a self-contained breathing apparatus (SCBA) to skin and eyes. Wear a self-contained breathing apparatus (SCBA) to prevent contact with thermal decomposition products.

Extinguishing Media:

Substance is noncombustible; use egent most appropriate to Autoignition Temperature: Not applicable, Autoignition Temperature: Not applicable, Flash Point: Not applicable.

NFPA Rating: Not published.

Explosion Limits, Lower: Not available.

**** SECTION 6 - ACCIDENTAL RELEASE MEASURES ****

General information: Use proper personal protective equipment as indicated _ ... _ in Section 8.

Spills/Leaks:
Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Remove all sources of

**** SECTION 7 - HANDLING and STORAGE ****

Handling:

Wash thoroughly after handling. Use with adequate ventilation. Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Do not ingest or inhale. Do not store near combustible materials.

Storage:
Koop away from sources of Ignition. Do not store near combustible materials. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

**** SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION ****

Engineering Controls: Use adequate ventilation to keep airborne concentrations low.

Nitric acid, silver none listed
(1+) salt Exposure Limits NIOSH

as Ag: 0.01 mg/m3 0.1

TWA (listed under list) m3 0.01 mg/m3 TWA
(listed under
SILVER)

OSHA Vacated PELs:

Nitric acid, sliver(1+) salt:

No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes:
Weer appropriate protective eyeglasses or chemical
safety goggles as described by OSHA's eye and face
protection regulations in 29 CFR 1910.133.

Weer Impervious gloves.

Clothing:
Wear appropriate protective clothing to prevent skin exposure.

Respirators Follow the OSHA respirator regulations found in 29CFR 1910.134. Always use a NIOSH-approved respirator when

**** SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ****

Viscosity:

Viscosity:

Viscosity:

Freezing/Meiting Point:

Specific formula:

Mot available.

Not available. Physical State: Appearance: Odor: White or colorless crystals.

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A. Foderal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Chomical Stability:

Stabis under normal temperatures and pressures.

Conditions to Avoid:
Incompatible materials, combustible materials, roducing agents.
Incompatible materials, combustible materials, roducing agents.
Incompatibilities with Other Materials:
Incompatibilities with Other Materials.
Identify an approximative products with acetylene, ammonium hydroxide, aziridine, calcium carbide, ethanol, ethanol, and nitric acid, aziridine, calcium carbide, ethanol, e
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Dispose of in a manner consistent with federal, state, and local regulations. 
RCRA D-Series Maximum Concentration of Contaminants: Not listed, 
RCRA D-Series: Not listed, 
RCRA P-Series: Not listed, 
RCRA P-Series: Not listed.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ecatoxicity:

Not available,
Environmental Fate:
Not available,
Physical/Chemical:
Not available.
                                                                                                                                                                                                                                                                                                                                                                  No information available.
Canadian TDG
Shipping Name: SILVER NITRATE
Hazard Class: 5,1(9,2)
UN Number: UN1493
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 IATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US DOT
Shipping Name: SILVER NITRATE
Hazard Class: 5,1
UN Wumber: UN1493
Packing Group: II
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Other:
Not available.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NO
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No dat
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               No data available.
Other Studies:
No data available.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Neurotoxicity:
No data available.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Teratogenicity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Epidemiology:
No deta a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Carcinogenicity:
Nitric acid, silver(1+) salt -
Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             No data avallable.
Reproductive Effects:
No data avallable.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CAS# 7761-68-8: Oral, mouse: LD50 = 50 mg/kg.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RTECS#:
CAS# 7761-88-8: VW4725000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DATE:
CAS# 7781-88-8 is listed on the TSCA inventory.
Health & Safety Reporting List
None of the chemicals are on the Health & Safety Reporting List.
Chemical Test Rules
None of the chemicals in this product are under a Chemical Test Rule
Section 12b
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       No information available.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    No Information available.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     a material banned from land disposal according to RCRA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 **** SECTION II - TOXICOLOGICAL INFORMATION ****
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  **** SECTION 13 - DISPOSAL CONSIDERATIONS ****
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   G63246884
                                                                                                                                                                                                                                                                                               **** SECTION 15 - REGULATORY INFORMATION ****
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   **** SECTION 14 - TRANSPORT INFORMATION ****
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             11/20/96
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    **** SECTION 12 - ECOLOGICAL INFORMATION ****
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CAT NO: S78171
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B. State
Nitric acid, silver[1+] salt can be found on the following state
right to know lists: New Jersey, Florida, Pennsylvania,
Massachusetts.
Californa No Significant Risk Lavel:
None of the chemicals in this product are listed.
C. International
Canada
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Clean Air Act:
This material does not contain any hazardous air pollutants.
This material does not contain any Class I Dzone depisiors.
This material does not contain any Class 2 Ozone depisiors.
This material does not contain any Class 2 Ozone depisiors.
Clan Water Act:
CAS# 7761-88-8 Is listed as a Hazardous Substance under the CWA.
None of the chemicals in this product are listed as Priority
Pollutants under the CWA.
None of the chemicals in this product are listed as Toxic Pollutants under the CWA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Additional Information:
Added NFPA codes to Section 5. Added SARA classifications to Section
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CAS# 7761-88-8 is listed on Canada's DSL/NDSL List.
CAS# 7761-88-8 is listed on Canada's ingradiant Disclosure List.
European Labeling in Accordance with EC Directives
Hazard Symbols: Not available.
Risk Phazes:
Risk Phazes:
R34 Causes burns.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            OSHA:
None of the chemicals in this product are considered highly hazardous by OSHA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          None of the chemicals are listed under TSCA Section 12b.
TSCA Significant New Use Rule
None of the chemicals in this material have a SNUR under TSCA.
SARA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Safety Phrases:

S Z Keep out of reach of children,
S Z Keep out of reach of children,
S ZB in case of contact with eyes, rinse immediately
with plenty of water and seek medical advice,
with plenty of water and seek medical advice.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           None of the chemicals in this material have an RQ. Section 302 (TPQ)
None of the chemicals in this product have a TPQ.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Section 302 (RQ)
plenty.".
Section. 4. Inhelation First Aid, addad "Gat madical aid
Immediately....
Section 4 Inhalation First Aid, addad "Romove from ex
fresh air i...
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Section 3, Emer Overview, added "MAY CAUSE SEVERE RESPIRATORY AND DI.."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Section 3. Emer Overview, added "MAY CAUSE CYANOSIS WITH BLUISH
SKIN..".
                                                                                                                                                      eep....
action 4, Skin First Aid, added "Get modical aid immediately..."
ection_4, Skin First Aid, added "immediately itush skin with
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Section 3. Eye Effects, added "Contact with eyes may cause
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Section 3, Emer Overview, added "MAY CAUSE SEVERE EYE AND SKIN
IRRIT...".
                                                                                                                                                                                                                                                             ection 4, Eye First Aid, added "Gat medical ald immediatoly...".
ection 4. Eye First Aid, added "Do NOT allow victim to rub or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                o chamicals are reportable under Section 313.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ilon 3. Emer Overview, added "DANGER!..".
ilon 3. Emer Overview, added "STRONG OXIDIZER, CONTACT WITH

    Ingestion Effects, added "Harmful If swallowed...".
    Ingestion Effects, added "May cause severe intestinal t...".
    Chronic Effects, added "May cause methemoglobinemia.

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            **** SECTION 16 - ADDITIONAL INFORMATION ****
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3. Skin Effects, added "Causes severo skin fritation...".
3. Skin Effects, added "Causes skin burns...".
3. Inhalation Effects, added "Causes sovero irritation of
                                                                                                                                                                                                                                                                                                                                                        4. Eye First Aid, added "Immediately flush eyes with
                                   inhalation First Aid, added "Remove from exposure
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   761-88-8: acute, chronic, flammable.
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Section 6. Splits/Leaks, added "Avoid generating dusty conditions. Section 6. Spills/Leaks, added "Vacuum or sweep up material and pla. Section 4, Inhalation First Aid, added "If not breathing, give artificial r.".
Section 4, Inhalation First Aid, added "If breathing is difficult, on 5, General Firelighting, added "Strong oxidizer, Contact comby..." 5, General Firelighting, added "Wear appropriate protective 6, Ingestion First Aid, added "Do NOT induce vomiting..." 5. Extinguishing Media, added "Substance is noncombustible. 4, Ingestion First Aid, added "Never give enything by mouth A, Ingestion First Aid, added "If victim is conscious and

SOS

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warrantly of morchantability or any other warrantly express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the for any claims, losses, or damages of any third party or for lost profits or any special. Indirect, incidental, consequential or exemplary damages, howeverse arising, even it Fisher has been advised of

Section 10. Condit. to Avoid, added "incompatible materials."
Section 10. Condit. to Avoid, added "combustible materials."
Section 10. Condit. to Avoid, added "combustible materials."
Section 10. Condit. to Avoid, added "caducing agents."
Section 10. Decomposition Prod. added "altrogen oxides..."
Section 10. Decomposition Prod. added "sitrogen oxides..."
Section 11. Epidemiology has changed.
Section 11. Petarloganicity has changed.
Section 11. Reproductive has changed.
Section 12. Reproductive has changed.
Section 13. Ecology Into has changed.
Section 12. Ecology Into has changed.
Section 12. Phylical into has changed.
Section 12. Other finto has changed.
Section 12. Other finto has changed. Section 8. Spills/Leaks, added "Remove all sources of Ignition."
Section 7. Handling, added "Use with adequate ventilation...
Section 7. Handling, added "Use with adequate ventilation...
Section 7. Handling, added "Do not get in eyas, on skin, or on section 7. Handling, added "Do not largest or inhale."
Section 7. Handling, added "Do not largest or inhale."
Section 7. Handling, added "Do not store near combustible mater."
Section 7. Storage, added "Store in a tightly closed container.
Section 7. Storage, added "Store in a tightly closed container.
Section 7. Storage, added "Store in a cool, dry, well-ventilation to keep section 7. Storage, added "Store in a cool, dry, well-ventilation to keep Section Section al." Section 8. Eye Protection, added "Wear appropriate protective eyegia 9. Physical Properties has changed. 10. Stability, added "Stable under normal temperatures an o o o Skin Protection, added "Weer impervious gloves...".
Clothing, added "Wear appropriate protective clothin.".
Respirators, added "Follow the OSHA respirator regulati...