SECTION 1: Product Identification

Chemical Name: Silver nitrate (99.9%-Ag) (ACS)

Product Number: 702

CAS Registry

7761-88-8

Number:
Formula:

AqNO3

EINECS Number:

231-853-9

Chemical Family:

metal nitrate salts

Synonym:

Lunar caustic, Nitric acid, silver(1+)sal

SECTION 2: Composition and Information on Ingradients

Ingredient CAS Number Percent ACGIH (TWA) OSHA (PEL)

Title Compound 7761-88-8 100 0.01mg/m3 0.01mg/m3

SECTION 3: Hazards Identification

Emergency Overview: Harmful if swallowed. Causes burns to eyes, skin and mucous membranes.

Possible risk of irreversible effects.

Primary Routes of

Exposure:

Effects:

Ingestion

Eye Contact: Causes carris to the eyes

Causes, caustic burns to the skin. Contact with the skin can lead to formation of Skin Contact:

park biotches (silver staining)

Inhalation: Causes burns to the nose, mucous membranes and respiratory tract.

Harmful if swallowed. ingestion may lead to dizziness, abdominal cramps, vomiting, Ingestion:

bloody diarrhea, weakness, and convulsions.

Acute Health Effects: Harmful if swallowed. Causes burns to eyes, skin and mucous membranes.

Long term exposure to silver and silver salts can lead to the condition known as Chronic Heath

argyria - a general gray pigmentation of the skin and mucous membranes. Possible

risk of irreversible effects.

NTP: No

网址(Http):www.kd-chem.com 电话(Tel):0917-3317143 /3322918 (Fax):0917-3310616

IARC: No

OSHA: No

Eye Exposure:

Inhalation

SECTION 4: First Aid Measures

Immediately flush the eyes with copious amounts of water for at least 10-15

minutes. A victim may need assistance in keeping their eye lids open. Get

immediate medical attention.

Wash the affected area with water. Remove contaminated clothes if necessary. Skin Exposure:

Seek medical assistance if irritation persists

Remove the victim to fresh air. Closely monitor the victim for signs of respiratory

problems, such as difficulty in breathing coughing, wheezing, or pain. In such

cases seek immediate medical assistance.

Seek medical attention immediately. Keep the victim calm. Give the victim water mgestion:

(only if conscious). Induce vorning only if directed by medical personnel.

SECTION 5: Fire Fighting Measures

Flash Point: not applicable

Autoignition

none Temperature:

Explosion Limits: none

Extinguishing

carbon dioxide, foam or dry powder Medium:

Special Fire Fighting

Procedures:

If this product is involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective

clotining.

Hazardous

Combustion and

Decomposion

If involved in a fire this material may emit irritating fumes

Products:

Unusual Fire or Metal nitrates can be oxidizers. Contact with strong reducing agents could lead to

Explosion Fezards: fires and/or explosions.

SECTION 6: Accidental Release Measures

Spill and Leak

Small spills can be mixed with vermiculite or sodium carbonate and swept up. Procedures:

网址(Http):www.kd-chem.com 电话(Tel):0917-3317143 /3322918 (Fax):0917-3310616

SECTION 7: Handling and Storage

Handling and

Store in a tightly sealed container. Keep away from heat and direct sunlight.

Storage:

SECTION 8: Exposure Controls and Personal Protection

Always wear approved safety glasses when handling a chemical substance in the Eye Protection:

laboratory.

Skin Protection: Wear protective clothing and gloves.

Ventilation: If possible, handle the material in an efficient fume hood.

Respirator: No respirator required.

Adultional Protection: No additional protection required.

SECTION 9: Physical and Chemical Properties

Color and Form: white xtl.

Molecular Weight: 169.87

Melting Point: 212°C

Boiling Point: 444°C dec.

Vapor Pressure: not applicable

Specific Gravity: 4.352

Odor: none

Solubility in Water: 122g/100cc (0 □ C)

SECTION 10: Stability and Reactivity

Stability: air and moisture stable

Hazardous

no hazardous polymerization

Contact with strong reducing agents or organic matter. Some nitrates can explode Conditions to Avoid:

if heated to high temperatures.

Incompatibility: reducing agents, organic matter, phosphorus and sulfur

Decomposition

nitrogen oxides and silver metal Products:

网址(Http):www.kd-chem.com 电话(Tel):0917-3317143 /3322918 (Fax):0917-3310616

SECTION 11: Toxicological Information

Administration into the eye (rabbit); Standard Draize test: 1 mg Chireported

(human-man); LDLo: 29 mg/kg. Oral (rat); LD50: 1173 mg/kg. intraperitoneal (rat);

LD50: 83 mg/kg. Oral (dog); LDLo: 20 mg/kg. Oral (rabbit); LDLo: 800 mg/kg. Oral

(rat); TDLo: 28560 mg/kg/17W-I. Oral (rat); TDLo: 14 gm/kg/13W-C. Administration

onto the skin (mouse); TDLo: 15 gm/kg/19W-I. Oral (rat); TDLo: 28560 mg/kg.

Human Lymphocyte; DNA inhibition: 76 umol/L.

Carcinogenic Effects Equivocal tumorigenic agent by RTECS criteria

Mutagenic Effects: Possible mutagenic effects reported in RTECS

Tetratogenic Effects: No data available

SECTION 12: Ecological Information

Very toxic to aquatic organisms. May cause long-term adverse effects in the Esological

Information: environment.

SECTION 13: Disposal Considerations

Disposal: Dispose of according to local, state and federal regulations.

SECTION 14: Transportation

Shipping Name

RTECS Data:

(CFR):

Silver nitrate

Hazard Class (CFR):

Additional Hazard

Class (CFR):

Packaging Group

(CFR):

UN ID Number (CFR

UN# 1493

Shipping Name

Silver nitrate

(IATA):

Hazard Class (IATA): 5.1

Additional Hazard

NA

Class (IATA):

Packaging Group

(IATA):

Ш

网块(Http):www.kd-chem.com

电话(Tel):0917-3317143 /3322918

UN ID Number
UN# 1493

SECTION 15: Regulatory information

SARA (Title 313): Title compound: See Category Code N511 and N740 for reporting.

Second Ingredient none

Third Ingredient: none

网址(Http):www.kd-chem.com

电话(Tel):0917-3317143 /3322918

(Fax):0917-3310616