SILVER NITRATE

SECTION 1: PRODUCT IDENTIFICATION

Product Name: Silver nitrate
Product Code: TMB 065
CAS#: 7761-88-8
Synonym: Not available.
Chemical Name: Not available.
Chemical Formula: $AgNO_3$
Formula Weight: 169.87

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Composition:
Name: Silver nitrate
Toxicological Data on Ingredients: Ox. Sol. 2; Met. Corr. 1;Skin Corr. 1B; Eye Dam. 1; Aquatic Acute 1;Aquatic Chronic 1; H272, H290, H314, H318, H400,H410

SECTION 3: HAZARDS IDENTIFICATION

Classification of the substance or mixture:
Classification according to Regulation (EC) No 1272/2008
Oxidizing solids (Category 2), H272
Corrosive to Metals (Category 1), H290
Skin corrosion (Sub-category 1B), H314
Serious eye damage (Category 1), H318
Potential Acute Health Effects: Short-term (acute) aquatic hazard (Category 1), H400
Potential Chronic Health Effects: Long-term (chronic) aquatic hazard (Category 1), H410
Mutagenic Effects: Not available.
Teratogenic Effects: Not available.
Developmental Toxicity: Not available.
Specific target organ toxicity - Not available.

SECTION 4: FIRST AID MEASURES

Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
Skin Contact: Wash off immediately with soap and plenty of water. Cover the irritated skin with emollient. Immediate medical attention is required.
Serious Skin Contact: Not available.
Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Serious Inhalation: Not Available.
Ingestion: Do Not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.
Serious Ingestion: Not available.

SECTION 5: FIRE FIGHTING MEASURES

Suitable extinguishing media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Special hazards arising from the substance or mixture
Nitrogen oxides (NOx)
Silver/silver oxides
Container explosion may occur under fire conditions.
Not combustible.
Has a fire-promoting effect due to release of oxygen.
Ambient fire may liberate hazardous vapours.
Advice for firefighters
Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions and emergency procedures
Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
Environmental precautions
Do not let product enter drains.
Methods and materials for containment and cleaning up
Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions
Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling
Keep away from open flames, hot surfaces and sources of ignition.
Storage conditions:
No metal containers.
Tightly closed. Do not store near combustible materials.
Light sensitive.
Storage class:
Storage class (TRGS 510): 5.1B: Oxidizing hazardous materials.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.
Respiratory protection
Respiratory protection is not required. If protection from nuisance levels of dusts are desired, use type N95 or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance : Solid

Odor	:	Not available
Color	:	Colourless
Molecular Weight	:	Not available
pH	:	Not available
Boiling Point	:	Not available
Melting Point	:	Not available
Critical Temperature	:	Not available
Specific Gravity	:	Not available
Vapor Pressure	:	Not available
Vapor Density	:	Not available
Volatility	:	Not available
Odor Threshold	:	Not available
Water/Oil Dist. Coeff.	:	Not available
Ionicity (in Water)	:	Not available
Dispersion Properties	:	Not available
Solubility	:	Not available

SECTION 10: STABILITY AND REACTIVITY DATA

Stability: The product is chemically stable under standard ambient conditions (room temperature).
Instability Temperature: Not available
Conditions of Instability: Exposure to Light
Incompatibility with various substances: Aluminum, Mild steelMetals
Special Remarks on Corrosivity: Non-corrosive.
Special Remarks on Reactivity: Not available
Possibility of hazardous reactions:
Violent reactions possible with:
Strong oxidizing agents
Bases
acids.
Hazardous decomposition products: In event of fire.

SECTION 11: TOXICOLOGICAL INFORMATION.

Acute Toxicity:
LD50 Oral - Rat - male and female - 3.804 mg/kg
LC50 Inhalation - Rat - male and female - 4 h - > 0,075 mg/l - aerosol
LD50 Dermal - Rat - male and female - > 2.000 mg/kg
Inhalation: Not available
Dermal: Not available
Routes of Entry: Not available
Toxicity to Animals: Not available
Chronic Effects on Humans: Not available
Other Toxic Effects on Humans: Causes serious eye damage. Risk of permanent damage due to staining of the cornea.
Special Remarks on Toxicity to Animals: Not available
Special Remarks on other Toxic Effects on Humans: Skin - reconstructed human epidermis (RhE)
Result: Corrosive - 3 - 60 min
Reproductive toxicity: Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:
Toxicity to fish semi-static test LC50 - Pimephales promelas (fathead minnow) - 0,0012 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates: semi-static test LC50 - Daphnia magna (Water flea) - 0,00022 mg/l - 48 h

BOD and COD: Not available
Products of Biodegradation: Not available
Toxicity of the Products of Biodegradation: Not available
Special Remarks on the Products of Biodegradation: Not Available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal:
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

SECTION 14: TRANSPORT INFORMATION

UN number:
ADR/RID: **1493** **IMDG:** 1493 **IATA: 1493**
UN proper shipping name
ADR/RID: Silver Nitrate
IMDG: Silver Nitrate
IATA: Silver Nitrate
Transport hazard class (es):
ADR/RID: 5.1 **IMDG:** 5.1 **IATA:** 5.1
Packaging group:
ADR/RID: **II** **IMDG:** II **IATA:** II
Environmental hazards:
ADR/RID: Yes **IMDG Marine pollutant:** Yes **IATA:** No

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture
This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.
Chemical Safety Assessment
For this product a chemical safety assessment was not carried out

SECTION 16: OTHER INFORMATION

References: Full text of H AND R-Statements:
H272 May intensify fire; oxidizer.
H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
Other Special Considerations: Not available

The information contained in this data sheet represents the best information currently available to us. However, no warranty is made with respect to its completeness and we assume no liability resulting from its use. The information is offered solely for user's obligation to investigate and determine the suitability of the information for their particular purpose.