

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 11/21/1998 Revision date: 02/20/2018 Supersedes: 02/20/2018 Version: 2.0

SECTION 1: Identification

Identification

: Substance Product form Substance name Silver Nitrate CAS-No. 7761-88-8 Product code 1.1430 Formula : AgNO3

Synonyms lunar caustic / nitrate of silver / nitric acid silver salt / nitric acid silver(1+) salt / silver

mononitrate / silver nitrate / silver(I) nitrate / silver(I) salt nitric acid

Recommended use and restrictions on use

Use of the substance/mixture : Laboratory chemical

Chemical intermediate Water treatment

Oxidant

Photographic chemical: component

Cosmetic product: dyestuff

: Laboratory chemicals Recommended use

Restrictions on use : Not for food, drug or household use

1.3. **Supplier**

NEUTRON PHARMACHEMICAL CO

98, 9th Floor, Borjsaz Building, Azadi Ave, Tehran, Iran.

T 021-66906732-3 - F 021-66581408 info@neutronpharmachemical.com www.neutronpharmachemical.com

Emergency telephone number

Emergency number : CHEMTREC: 125

SECTION 2: Hazard(s) identification

Classification of the substance or mixture 2.1.

GHS US classification

Oxidizing solids Category 2 H272 May intensify fire; oxidizer

Skin corrosion/irritation Category 1B H314 Causes severe skin burns and eye damage

Serious eye damage/eye irritation Category 1 H318 Causes serious eye damage

Hazardous to the aquatic environment - Acute Hazard Category 1 H400 Very toxic to aquatic life

Hazardous to the aquatic environment - Chronic Hazard Category 1 H410 Very toxic to aquatic life with long lasting effects

Full text of H statements : see section 16

GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US)







Signal word (GHS US) : Danger

Hazard statements (GHS US) H272 - May intensify fire; oxidizer

H314 - Causes severe skin burns and eye damage H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (GHS US) : P210 - Keep away from heat, open flames, sparks. - No smoking.

P220 - Keep/Store away from combustible materials

P221 - Take any precaution to avoid mixing with combustibles

P260 - Do not breathe dust.

P264 - Wash exposed skin thoroughly after handling.

P273 - Avoid release to the environment.

P280 - Wear eye protection, face protection, protective gloves, protective clothing. P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated

11/08/2019 EN (English US) Page 1

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

clothing. Rinse skin with water/shower.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a poison center or doctor/physician.

P363 - Wash contaminated clothing before reuse.

P391 - Collect spillage. P405 - Store locked up.

P501 - Dispose of contents/container to comply with local, state and federal regulations

Other hazards which do not result in classification

Other hazards not contributing to the classification

: None.

2.4. **Unknown acute toxicity (GHS US)**

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. **Substances**

Substance type : Mono-constituent

Name	Product identifier	%	GHS US classification
Silver Nitrate (Main constituent)	(CAS-No.) 7761-88-8	100	Ox. Sol. 2, H272 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of hazard classes and H-statements: see section 16

Mixtures

Not applicable

SECTION 4: First-aid measures

Description of first aid measures

First-aid measures general

: Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with labored breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

First-aid measures after inhalation

First-aid measures after skin contact

: Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

Wash immediately with lots of water (15 minutes)/shower. Do not apply (chemical) neutralizing agents without medical advice. Remove clothing while washing. Do not remove clothing if it sticks to the skin. Cover wounds with sterile bandage. Consult a doctor/medical service. If burned surface > 10%: take victim to hospital.

First-aid measures after eye contact

: Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply (chemical) neutralizing agents without medical advice. Take victim to an ophthalmologist.

First-aid measures after ingestion

Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Do not apply (chemical) neutralizing agents without medical advice. Immediately consult a doctor/medical service. Call Poison Information Centre (www.big.be/antigif.htm). Ingestion of large quantities: immediately to hospital. Doctor: administration of chemical antidote.

Most important symptoms and effects (acute and delayed)

Potential Adverse human health effects and symptoms

: Based on available data, the classification criteria are not met.

Symptoms/effects

: Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/effects after inhalation

AFTER INHALATION OF DUST: Dry/sore throat. Coughing. FOLLOWING SYMPTOMS MAY APPEAR LATER: Risk of lung edema.

Symptoms/effects after skin contact

Caustic burns/corrosion of the skin.

Symptoms/effects after eye contact

: Corrosion of the eye tissue. Permanent eye damage.

Symptoms/effects after ingestion

: AFTER ABSORPTION OF LARGE QUANTITIES: Burns to the gastric/intestinal mucosa. Vomiting. Abdominal pain. Diarrhoea. Shock. Dizziness. Low arterial pressure. Disturbances of consciousness. Cramps/uncontrolled muscular contractions. Respiratory collapse.

Chronic symptoms

: May stain the skin. Blue/grey discoloration of the skin. Inflammation/damage of the eye tissue. Visual disturbances. Possible inflammation of the respiratory tract.

11/08/2019 EN (English US) 2/9

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

4.3. Immediate medical attention and special treatment, if necessary

Obtain medical assistance. Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water. Quick-acting ABC powder extinguisher. Quick-acting CO2 extinguisher. Quantities of

water.

Unsuitable extinguishing media : Foam. Foam.

5.2. Specific hazards arising from the chemical

Fire hazard : DIRECT FIRE HAZARD. Non combustible. INDIRECT FIRE HAZARD. May intensify fire;

oxidiser. Reactions involving a fire hazard: see "Reactivity Hazard".

Explosion hazard : INDIRECT EXPLOSION HAZARD. Reactions with explosion hazards: see "Reactivity Hazard".

5.3. Special protective equipment and precautions for fire-fighters

Precautionary measures fire : Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to

fire/heat: have neighbourhood close doors and windows.

Firefighting instructions : Cool tanks/drums with water spray/remove them into safety. Dilute toxic gases with water

spray. Take account of toxic/corrosive precipitation water. Take account of toxic fire-fighting

water. Use water moderately and if possible collect or contain it.

Protection during firefighting : Heat/fire exposure: compressed air/oxygen apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Gloves. Face-shield. Corrosion-proof suit. Dust cloud production: compressed air/oxygen

apparatus.

Emergency procedures : Mark the danger area. Prevent dust cloud formation. No naked flames. Keep containers closed.

Wash contaminated clothes. In case of hazardous reactions: keep upwind. In case of reactivity

hazard: consider evacuation.

Measures in case of dust release : In case of dust production: keep upwind. In case of dust production: consider evacuation. Dust

production: have neighbourhood close doors and windows.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area. Stop release.

6.2. Environmental precautions

Prevent soil and water pollution. Prevent spreading in sewers.

6.3. Methods and material for containment and cleaning up

For containment : Contain released substance, pump into suitable containers. Plug the leak, cut off the supply.

Dam up the solid spill. Knock down/dilute dust cloud with water spray. Take account of

toxic/corrosive precipitation water.

Methods for cleaning up : Prevent dispersion by covering with dry sand. Scoop solid spill into closing containers or

synthetic bags. Carefully collect the spill/leftovers. Spill must not return in its original container.

Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid raising dust. Keep away from naked flames/heat. Measure the concentration in the air

regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Keep the substance free from contamination. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Keep container

tightly closed.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work.

11/08/2019 EN (English US) 3/9

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : combustible

materials, incompatible materials. Keep container closed when not in use.

Incompatible products : Strong bases. combustible materials. Sodium hypochlorite. Strong acids.

Incompatible materials : Combustible material. Sources of ignition. Direct sunlight.

Storage temperature : 5 - 30 °C

Heat-ignition : KEEP SUBSTANCE AWAY FROM: heat sources.

Prohibitions on mixed storage : KEEP SUBSTANCE AWAY FROM: combustible materials. reducing agents. (strong) bases.

organic materials. alcohols.

Storage area : Store in a cool area. Store in a dry area. Store in a dark area. Keep container in a well-

ventilated place. Keep locked up. Unauthorized persons are not admitted. Meet the legal

requirements. Keep only in the original container.

Special rules on packaging : SPECIAL REQUIREMENTS: closing. watertight. clean. opaque. correctly labelled. meet the

legal requirements. Secure fragile packagings in solid containers.

Packaging materials : SUITABLE MATERIAL: iron. synthetic material.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Silver Nitrate (7761-88-8)		
ACGIH	ACGIH TWA (mg/m³)	0.01 mg/m³
NIOSH	NIOSH REL (TWA) (mg/m³)	0.01 mg/m³

8.2. Appropriate engineering controls

Appropriate engineering controls

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Gloves. Safety glasses. Chemical resistant apron. Face shield. Protective clothing. Dust production: dust mask with filter type P3.

Materials for protective clothing:

GIVE EXCELLENT RESISTANCE: nitrile rubber. GIVE GOOD RESISTANCE: butyl rubber. neoprene. PVA

Hand protection:

Gloves

Eye protection:

Face shield. In case of dust production: protective goggles

Skin and body protection:

Corrosion-proof clothing. In case of dust production: head/neck protection

Respiratory protection:

Dust production: dust mask with filter type P3. High dust production: self-contained breathing apparatus

Personal protective equipment symbol(s):













Other information:

Do not eat, drink or smoke during use.

11/08/2019 EN (English US) 4/9

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Crystalline solid.

Color : Colourless to grey On exposure to light: dark grey to black

Odor : Odorless

Odor threshold : No data available

pH : 7 Melting point : $212 \, ^{\circ}\text{C}$

Freezing point : No data available

Boiling point : Not applicable (decomposes)

Flash point : Not applicable
Relative evaporation rate (butyl acetate=1) : No data available
Flammability (solid, gas) : Non flammable.
Vapor pressure : Not applicable

Relative vapor density at 20 °C : 5.8

Relative density : 4.35 (20 °C)
Specific gravity / density : 4352 kg/m³
Molecular mass : 169.87 g/mol

Solubility : Soluble in water. Substance sinks in water. Soluble in ammonia. Soluble in glycerol.

Water: 71 g/100ml (25 °C) Acetone: 0.4 g/100ml

Log Pow : 0.19 (Estimated value)
Auto-ignition temperature : No data available

Decomposition temperature : 440 °C

Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosion limits : No data available
Explosive properties : No data available

Oxidizing properties : May intensify fire; oxidiser.

9.2. Other information

VOC content : 0 %

Other properties : Translucent. Neutral reaction.

SECTION 10: Stability and reactivity

10.1. Reactivity

Decomposes on exposure to light. This reaction is accelerated on exposure to impurities. Violent to explosive reaction with many compounds e.g.: with (strong) reducers. Violent to explosive reaction with combustible materials: risk of spontaneous ignition. May be corrosive to metals.

10.2. Chemical stability

Unstable on exposure to light.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. High temperature. Extremely high or low temperatures.

10.5. Incompatible materials

combustible materials. Strong bases. Strong reducing agents. Strong acids.

10.6. Hazardous decomposition products

Nitrogen oxides. fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified

11/08/2019 EN (English US) 5/9

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Acute toxicity (dermal)	:	Not classified
Acute toxicity (inhalation)	:	Not classified

Acute toxicity (inhalation)	: Not classified
Silver Nitrate (7761-88-8)	
LD50 oral rat	> 2000 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rat	> 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 15 day(s))
LC50 inhalation rat (mg/l)	> 0.75 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, (maximum achievable concentration), Inhalation (aerosol), 14 day(s))
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
	pH: 7
Serious eye damage/irritation	: Causes serious eye damage.
	pH: 7
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Likely routes of exposure	: Inhalation. Skin and eye contact.
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after inhalation	: AFTER INHALATION OF DUST: Dry/sore throat. Coughing. FOLLOWING SYMPTOMS MAY APPEAR LATER: Risk of lung edema.
Symptoms/effects after skin contact	: Caustic burns/corrosion of the skin.
Symptoms/effects after eye contact	: Corrosion of the eye tissue. Permanent eye damage.
Symptoms/effects after ingestion	: AFTER ABSORPTION OF LARGE QUANTITIES: Burns to the gastric/intestinal mucosa. Vomiting. Abdominal pain. Diarrhoea. Shock. Dizziness. Low arterial pressure. Disturbances of

consciousness. Cramps/uncontrolled muscular contractions. Respiratory collapse.

: May stain the skin. Blue/grey discoloration of the skin. Inflammation/damage of the eye tissue. Visual disturbances. Possible inflammation of the respiratory tract.

Chronic symptoms

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general :	Dangerous for the environment.
Ecology - air :	Not included in the list of substances which may contribute to the greenhouse effect (IPCC). Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014). Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).
Ecology - water :	Very toxic to crustacea. Very toxic to fishes. Severe water pollutant (surface water). Very toxic to algae. May cause eutrophication.
Silver Nitrate (7761-88-8)	
LC50 fish 1	1.2 µg/l (96 h, Pimephales promelas, Semi-static system, Fresh water, Experimental value, Silver ion)

12.2. Persistence and degradability

Silver Nitrate (7761-88-8)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

11/08/2019 EN (English US) 6/9

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

12.3. Bioaccumulative potential

Silver Nitrate (7761-88-8)	
BCF fish 1	70 (30 day(s), Cyprinus carpio, Static system, Fresh water, Experimental value)
Log Pow	0.19 (Estimated value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Regional legislation (waste) : Disposal must be done according to official regulations.

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Waste disposal recommendations : Remove waste in accordance with local and/or national regulations. Hazardous waste shall not

be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle/reuse. Remove to an authorized dump (Class I).

Additional information : Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No

1357/2014 and Regulation (EU) No 2017/997.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN1493 Silver nitrate, 5.1, II

UN-No.(DOT) : UN1493

Proper Shipping Name (DOT) : Silver nitrate

Packing group (DOT) : II - Medium Danger

Hazard labels (DOT) : 5.1 - Oxidizer



Dangerous for the environment : Yes

Marine pollutant : Yes



DOT Packaging Non Bulk (49 CFR 173.xxx) : 212 DOT Packaging Bulk (49 CFR 173.xxx) : 242

11/08/2019 EN (English US) 7/9

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

DOT Special Provisions (49 CFR 172.102)

: IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2).

IP2 - When IBCs other than metal or rigid plastics IBCs are used, they must be offered for transportation in a closed freight container or a closed transport vehicle.

IP4 - Flexible, fiberboard or wooden IBCs must be sift-proof and water-resistant or be fitted with a sift-proof and water-resistant liner.

T3 - 2.65 178.274(d)(2) Normal...... 178.275(d)(2)

TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank instruction and special provisions shall apply. Filling limits must be in accordance with portable tank special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter.

DOT Packaging Exceptions (49 CFR 173.xxx) : 152
DOT Quantity Limitations Passenger aircraft/rail : 5 kg

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 25 kg

CFR 175.75)

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel.

Other information : No supplementary information available.

SECTION 15: Regulatory information

15.1. US Federal regulations

Silver Nitrate (7761-88-8)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
RQ (Reportable quantity, section 304 of EPA's List of Lists) 1 lb		
SARA Section 311/312 Hazard Classes	Physical hazard - Oxidizer (liquid, solid or gas) Health hazard - Acute toxicity (any route of exposure)	
	Health hazard - Skin corrosion or Irritation	
	Health hazard - Serious eye damage or eye irritation	

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

15.2. International regulations

CANADA

Silver Nitrate (7761-88-8)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

11/08/2019 EN (English US) 8/9

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date : 02/20/2018 Other information : None.

Full text of H-phrases: see section 16:

H272	May intensify fire; oxidizer
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

NFPA health hazard

: 1 - Materials that, under emergency conditions, can cause

significant irritation.

NFPA fire hazard

: 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as

concrete, stone, and sand.

NFPA reactivity

: 3 - Materials that in themselves are capable of detonation or explosive decomposition or explosive reaction but that require a strong initiating source or must be heated under

confinement before initiation.

NFPA specific hazard

: OX - Materials that posses oxidizing properties.

Hazard Rating

Health

: 2 Moderate Hazard - Temporary or minor injury may occur

Flammability

: 0 Minimal Hazard - Materials that will not burn

Physical

: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT

react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Personal protection

F - Safety glasses, Gloves, Synthetic apron, Dust respirator

SDS US LabChem

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11/08/2019 EN (English US) 9/9