

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 06/13/2013 Revision date: 06/13/2013 Version: 1.0

SECTION 1: Identification of the	substance	e/mixture and of the com	ipany/undertakin	g
.1. Product identifier				
roduct form	: Mixt			
roduct name.		er Nitrate, 0.05N (0.05M)		
roduct code	: LC2	2670		
2. Relevant identified uses of the	substance o	r mixture and uses advised ag	ainst	
se of the substance/mixture	: For	laboratory and manufacturing use	e only.	
.3. Details of the supplier of the s	afety data sh	eet		
abChem Inc ackson's Pointe Commerce Park Building 6063 Zelienople, PA - USA 412-826-5230 - F 724-473-0647 <u>fo@labchem.com</u> - <u>www.labchem.com</u>	1000, 1010 J	ackson's Pointe Court		
.4. Emergency telephone number				
mergency number	: CHE	EMTREC: 1-800-424-9300 or 011	1-703-527-3887	
ECTION 2: Hazards identificati	on			
1. Classification of the substance	e or mixture			
HS-US classification				
ot classified				
2. Label elements				
HS-US labelling				
o labelling applicable				
3. Other hazards				
ther hazards not contributing to the assification	: Non	е.		
.4. Unknown acute toxicity (GHS	US)			
lo data available				
SECTION 3: Composition/inforn	nation on i	naredients		
.1. Substances		ingroutorito		
lot applicable				
ull text of H-phrases: see section 16				
.2. Mixture				
Name		Product identifier (CAS No) 7732-18-5	% 99.15	GHS-US classification
Water Silver Nitrate		(CAS No) 7761-88-8	0.85	Not classified Ox. Sol. 2, H272 Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
SECTION 4: First aid measures				
1. Description of first aid measur	es			
irst-aid measures general	: Nev	er give anything by mouth to an u w the label where possible).	unconscious person. I	f you feel unwell, seek medical adv
rst-aid measures after inhalation		ure fresh air breathing. Allow the	victim to rest.	
irst-aid measures after skin contact	: Ren			with mild soap and water, followed
rst-aid measures after eye contact		e immediately with plenty of wat	er. Obtain medical atte	ention if pain, blinking or redness
			-	

4.2.	Most important symptoms and effective	fects, both acute and delayed
Sympto	oms/injuries	: Not expected to present a significant hazard under anticipated conditions of normal use.
Sympto	oms/injuries after skin contact	: May stain the skin.

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Symptoms/injuries after ingestic		usea. Vomiting. Diarrhoea. Blue/grey discolouration of the skin. Methemoglobinemia. Chang
Symptoms/injuries upon intrave		rine output. available.
administration Chronic symptoms	Blue	e/grey discolouration of the skin. Methemoglobinemia.
5 1		
Indication of any important in the second		ion and special treatment needed
SECTION 5: Firefighting	mossuros	
5.1. Extinguishing media		
Suitable extinguishing media		ım. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media		not use a heavy water stream.
5.2. Special hazards aris	sing from the substance	e or mixture
No additional information availa		
5.3. Advice for firefighte	rs	
Firefighting instructions		water spray or fog for cooling exposed containers. Exercise caution when fighting any
		mical fire. Avoid (reject) fire-fighting water to enter environment.
Protection during firefighting	: Dor	not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental	release measures	
6.1. Personal precaution	s, protective equipmen	and emergency procedures
6.1.1. For non-emergency	personnel	
Protective equipment		ar chemically protective gloves, lab coat or apron to prevent prolonged or repeated skin
Emergency procedures		tact. Icuate unnecessary personnel.
6.1.2. For emergency resp		
Protective equipment		ip cleanup crew with proper protection.
Emergency procedures		itilate area.
6.2. Environmental preca	autions	
Prevent entry to sewers and put	blic waters. Notify author	ities if liquid enters sewers or public waters.
6.3. Methods and materia	al for containment and	cleaning up
Methods for cleaning up		ak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Colle lage. Store aways from other materials.
6.4. Reference to other s	ections	
See Heading 8. Exposure control	ols and personal protective	on.
SECTION 7: Handling a	nd storage	
7.1. Precautions for safe	handling	
Precautions for safe handling		sh hands and other exposed areas with mild soap and water before eating, drinking or oking and when leaving work. Provide good ventilation in process area to prevent formation our.
Ĵ		in compatibilities
7.2. Conditions for safe	storage, including any i	
7.2. Conditions for safe s Storage conditions	: Kee	ep container closed when not in use.
7.2. Conditions for safe s Storage conditions ncompatible products	: Kee : Stro	ep container closed when not in use. ong bases. Strong acids.
7.2. Conditions for safe s Storage conditions Incompatible products Incompatible materials	: Kee : Stro	ep container closed when not in use.
7.2. Conditions for safe s Storage conditions Incompatible products Incompatible materials 7.3. Specific end use(s)	: Kee : Stro : Sou	ep container closed when not in use. ong bases. Strong acids.
7.2. Conditions for safe s Storage conditions Storage conditions Incompatible products Incompatible materials 7.3. Specific end use(s) No additional information availa	: Kee : Stro : Sou ble	ep container closed when not in use. ong bases. Strong acids. ırces of ignition. Direct sunlight.
 7.2. Conditions for safe s Storage conditions ncompatible products ncompatible materials 7.3. Specific end use(s) No additional information availa SECTION 8: Exposure c 	: Kee : Stro : Sou ble	ep container closed when not in use. ong bases. Strong acids. ırces of ignition. Direct sunlight.
 7.2. Conditions for safe s Storage conditions Incompatible products Incompatible materials 7.3. Specific end use(s) No additional information availa SECTION 8: Exposure c 8.1. Control parameters 	: Kee : Stro : Sou ble	ep container closed when not in use. ong bases. Strong acids. ırces of ignition. Direct sunlight.
 7.2. Conditions for safe s Storage conditions Incompatible products Incompatible materials 7.3. Specific end use(s) No additional information availa SECTION 8: Exposure c 	: Kee : Stro : Sou ble	ep container closed when not in use. ong bases. Strong acids. ırces of ignition. Direct sunlight.
 7.2. Conditions for safe s Storage conditions Incompatible products Incompatible materials 7.3. Specific end use(s) No additional information availa SECTION 8: Exposure c 8.1. Control parameters Silver Nitrate (7761-88-8) 	: Kee : Stro : Sou ble controls/personal p	ep container closed when not in use. ong bases. Strong acids. urces of ignition. Direct sunlight. protection 0.01 mg/m³
 7.2. Conditions for safe s Storage conditions Incompatible products Incompatible materials 7.3. Specific end use(s) No additional information availa SECTION 8: Exposure c 8.1. Control parameters Silver Nitrate (7761-88-8) USA ACGIH USA OSHA 	: Kee : Stro : Sou ble controls/personal p	ep container closed when not in use. ong bases. Strong acids. urces of ignition. Direct sunlight. protection 0.01 mg/m³
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Hand protection	: Wear protective gloves.	
Eye protection	: Chemical goggles or safety glasses.	
Respiratory protection	: Wear appropriate mask.	
Environmental exposure controls	: Avoid release to the environment.	
Other information	: Do not eat, drink or smoke during use.	

SECTION 9: Physical and chemical properties

9.1. Information on basic physical a	and chemical properties
Physical state	: Liquid
Appearance	: Clear, colorless liquid.
Colour	: Colourless.
Odour	: Odourless.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1 g/ml
Solubility	: Soluble in water.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available.
Oxidising properties	: No data available.
Explosive limits	: No data available

9.2. **Other information** No additional information available

SECTION 10: Stability and reactivity			
10.1. Reactivity			
No additional information available			
10.2. Chemical stability			
Not established.			
10.3. Possibility of hazardous reactions			
Not established.			
10.4. Conditions to avoid			
Direct sunlight. Extremely high or low temperatures.			
10.5. Incompatible materials			
Strong acids. Strong bases. Chlorides.			
10.6. Hazardous decomposition products			
Nitrogen oxides. fume. Carbon monoxide. Carbon dioxide.			
SECTION 11: Toxicological information			
11.1. Information on toxicological effects			

Acute toxicity

: Not classified

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Silver Nitrate (7761-88-8)	
LD50 oral rat	1173 mg/kg (Rat)
Water (7732-18-5)	
LD50 oral rat	≥ 90000 mg/kg
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classifiedBased on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classifiedBased on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classifiedBased on available data, the classification criteria are not met
Aspiration hazard	: Not classifiedBased on available data, the classification criteria are not met
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/injuries after skin contact	: May stain the skin.
Symptoms/injuries after ingestion	: Nausea. Vomiting. Diarrhoea. Blue/grey discolouration of the skin. Methemoglobinemia. Change in urine output.
Symptoms/injuries upon intravenous administration	: Not available.
Chronic symptoms	: Blue/grey discolouration of the skin. Methemoglobinemia.
SECTION 12: Ecological information	

12.1. Toxicity

Silver Nitrate (7761-88-8)	
LC50 fishes 1	0.0039 mg/l (96 h; Pimephales promelas; Flow-through system)
EC50 Daphnia 1	0.0006 mg/l (48 h; Daphnia magna; LOCOMOTOR EFFECT)
LC50 fish 2	0.006 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
EC50 Daphnia 2	0.006 mg/l (48 h; Crangon sp.)
Threshold limit other aquatic organisms 1	0.006 mg/l (Pseudomonas putida; TOXICITY TEST)
Threshold limit algae 1	0.0007 mg/l (Microcystis aeruginosa; TOXICITY TEST)
Threshold limit algae 2	0.0095 mg/l (Scenedesmus quadricauda; TOXICITY TEST)

12.2. Persistence and degradability			
Silver Nitrate, 0.05N (0.05M)			
Persistence and degradability	Not established.		
Silver Nitrate (7761-88-8)			
Persistence and degradability	Biodegradability: not applicable.		
Biochemical oxygen demand (BOD)	Not applicable		
Chemical oyxgen demand (COD)	Not applicable		
ThOD	Not applicable		
BOD (% of ThOD)	Not applicable		
12.3. Bioaccumulative potential			
Silver Nitrate, 0.05N (0.05M)			
Bioaccumulative potential	Not established.		
Silver Nitrate (7761-88-8)			
BCF fish 1	11 - 19 (Micropterus salmoides; CHRONIC)		
BCF fish 2	15 - 150 (Lepomis macrochirus; CHRONIC)		
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.

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according to Federal Register 7 vol. 77, No. 587 Monday, W	-
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
	Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.
SECTION 14: Transport information	
In accordance with ADR / RID / ADNR / IMDG / IC	AO / IATA
14.1. UN number	
Not applicable	
14.2. UN proper shipping name	
Not applicable	
14.3. Additional information	
Other information	: No supplementary information available.
Overland transport	
No additional information available	
Transport by sea	
No additional information available	
Air transport	
No additional information available	
SECTION 15: Regulatory information	
15.1. US Federal regulations	
Silver Nitrate (7761-88-8)	
Listed on the United States TSCA (Toxic Substan	nces Control Act) inventory
RQ (Reportable quantity, section 304 of EPA's List of Lists) :	1 lb
15.2. International regulations	
CANADA	
Silver Nitrate, 0.05N (0.05M)	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria
Silver Nitrate (7761-88-8)	
Listed on the Canadian DSL (Domestic Sustance	es List) inventory.
WHMIS Classification	Class C - Oxidizing Material Class E - Corrosive Material
EU-Regulations No additional information available	

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC or 1999/45/EC Not classified

15.2.2. National regulations

Silver Nitrate (7761-88-8)	
Listed on the Canadian Ingredient Disclosure List	

15.3. US State regulations

No additional information available

SECTION 16: Other information		
Indication of changes	Revision - See : *.	
06/12/2012		E IC

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Other information

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: None.
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Full text of H-phrases: see section 16:

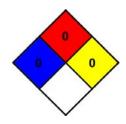
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — AcuteHazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Ox. Sol. 2	Oxidising Solids, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
H272	May intensify fire; oxidiser
H302	Harmful if swallowed
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

: 0 - Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.

NFPA fire hazard NFPA reactivity

- : 0 Materials that will not burn.
- : 0 Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating	
Health	: 0 Minimal Hazard - No significant risk to health
Flammability	: 0 Minimal Hazard
Physical	: 0 Minimal Hazard
Personal Protection	: B

SDS US (GHS HazCom 2012)

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