

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 04/07/2015 Revision date: 10/02/2015

Supersedes: 09/24/2015

Version: 1.2

SECTION 1: Identification		
1.1. Identification		
Product form	: Mixture	
Product name	: Mercury AA Standard, 1000ppm (1mL = 1mg Hg)	
Product code	: LC16750	
1.2. Relevant identified uses of the s	ubstance or mixture and uses advised against	
Use of the substance/mixture	: For laboratory and manufacturing use only.	
1.3. Details of the supplier of the safe	ety data sheet	
LabChem Inc Jackson's Pointe Commerce Park Building 1000, 1010 Jackson's Pointe Court Zelienople, PA 16063 - USA T 412-826-5230 - F 724-473-0647 info@labchem.com - www.labchem.com		
1.4. Emergency telephone number		
Emergency number	: CHEMTREC: 1-800-424-9300 or 011-703-527-3887	

SECTION 2: Hazard(s) identification 2.1. Classification of the substance or mixture

Classification (GHS-US)

Skin Corr. 1B	H314 - Causes severe skin burns and eye damage
Eye Dam. 1	H318 - Causes serious eye damage
STOT RE 2	H373 - May cause damage to organs (nervous system, blood, kidneys, intestinal tract) through prolonged or repeated exposure
Aquatic Acute 3	H402 - Harmful to aquatic life

Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)

Hazard pictograms (GHS-US)	: GHS05 GHS08	
Signal word (GHS-US)	: Danger	
Hazard statements (GHS-US)	 H314 - Causes severe skin burns and eye damage H373 - May cause damage to organs (nervous system, blood, kidneys, intestinal tract) prolonged or repeated exposure H402 - Harmful to aquatic life 	through
Precautionary statements (GHS-US)	 P260 - Do not breathe mist, vapors, spray P264 - Wash exposed skin thoroughly after handling P273 - Avoid release to the environment P280 - Wear eye 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 contaminate clothing. Rinse skin with water/shower P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove lenses, if present and easy to do. Continue rinsing P310 - Immediately call a poison center or doctor/physician P363 - Wash contaminated clothing before reuse P405 - Store locked up P501 - Dispose of contents/container to comply with local, state and federal regulations If inhaled: Remove person to fresh air and keep comfortable for breathing 	e contact
2.3. Other hazards		
Other hazards not contributing to the classification	: None under normal conditions.	
2.4. Unknown acute toxicity (GHS US)		
Not applicable		
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SECTION 3: Composition/information on ingredients 3.1. Substance Not applicable 3.2. Mixture

Name	Product identifier	%	Classification (GHS-US)
Water	(CAS No) 7732-18-5	89.88	Not classified
Nitric Acid	(CAS No) 7697-37-2	9.94	Ox. Liq. 3, H272 Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318
Mercuric Nitrate, Dihydrate	(CAS No) 22852-67-1	0.18	Acute Tox. 2 (Oral), H300 Acute Tox. 1 (Dermal), H310 Acute Tox. 2 (Inhalation), H330 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-phrases: see section 16

SECTION 4: First aid measures			
4.1. Description of first aid measures			
First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).		
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.		
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center or doctor/physician.		
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.		
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.		
4.2. Most important symptoms and effe	ects, both acute and delayed		
Symptoms/injuries	: Causes severe skin burns and eye damage. Causes damage to organs (blood, intestinal tract).		
Symptoms/injuries after inhalation	: Irritation of the nasal mucous membranes.		
Symptoms/injuries after skin contact	: Burns.		
Symptoms/injuries after eye contact	: Causes serious eye damage.		
Symptoms/injuries after ingestion	: Burns. Nausea. Vomiting. Diarrhoea.		
Chronic symptoms	: Impairment of the nervous system. Decreased renal function.		
4.3. Indication of any immediate medical attention and special treatment needed			
Obtain medical assistance.			
SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.		
Unsuitable extinguishing media	: Do not use a heavy water stream.		
5.2. Special hazards arising from the su	ubstance or mixture		
Reactivity	: Thermal decomposition generates : Corrosive vapors.		
5.3. Advice for firefighters			
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.		
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.		
SECTION 6: Accidental release mea	asures		
6.1. Personal precautions, protective e	quipment and emergency procedures		
6.1.1. For non-emergency personnel			
Protective equipment	: Safety glasses. Protective clothing. Gloves.		
F arana a sa			

6.1.2. For emergency responders

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: Equip cleanup crew with proper protection.

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Emergency procedures	: Ventilate area.		
6.2. Environmental precautions			
Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.			
6.3. Methods and material for cont	Methods and material for containment and cleaning up		
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.		
6.4. Reference to other sections			
See Heading 8. Exposure controls and per	rsonal protection.		
SECTION 7: Handling and stora	ge		
7.1. Precautions for safe handling			
Precautions for safe handling	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not breathe mist, vapors.		
Hygiene measures	: Wash exposed skin thoroughly after handling. Wash contaminated clothing before reuse.		
7.2. Conditions for safe storage, in	icluding any incompatibilities		
Technical measures	: Comply with applicable regulations.		
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : incompatible materials. Keep container closed when not in use.		
Incompatible products	: Strong reducing agents. silver nitrate. Strong bases.		

Incompatible materials : Sources of ignition. Direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Mercuric Nitrate, Dihydrate (22852-67-1)		
ACGIH	ACGIH TWA (mg/m ³)	0.025 mg/m ³
OSHA	OSHA PEL (TWA) (mg/m ³)	0.1 mg/m³ as Hg
Nitric Acid, 70% w/w (7697-37-2)		
ACGIH	ACGIH TWA (ppm)	2 ppm
ACGIH	ACGIH STEL (ppm)	2 ppm
OSHA	OSHA PEL (TWA) (mg/m ³)	5 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	2 ppm

8.2. Exposure controls	
Appropriate engineering controls	: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation.
Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear protective gloves.
Eye protection	: Chemical goggles or face shield.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: Wear appropriate mask.
Other information	: Do not eat, drink or smoke during use.

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Melting point	: No data available	
pН	: No data available	
Odor threshold	: No data available	
Odor	: None.	
Color	: Colorless	
Physical state	: Liquid	
9.1. Informa	ion on basic physical and chemical properties	
SECTION 9: P	hysical and chemical properties	

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Freezing point	: No data available	
Boiling point	: No data available	
Flash point	: No data available	
Relative evaporation rate (butyl acetate=1)	: No data available	
Flammability (solid, gas)	: No data available	
Explosion limits	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	
Vapor pressure	: No data available	
Relative density	: No data available	
Relative vapor density at 20 °C	: No data available	
Specific gravity / density	: 1.05 g/ml	
Solubility	 Soluble in water. Water: Solubility in water of component(s) of the mixture : Mercuric Nitrate, Dihydrate: • Nitric Acid, 70% w/w: 	
Log Pow	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Viscosity	: No data available	
Viscosity, kinematic	: 0.99 cSt	
Viscosity, dynamic	: No data available	
9.2. Other information		
No additional information available		
SECTION 10: Stability and reactivity	/	
10.1. Reactivity		
Thermal decomposition generates : Corrosive v	apors.	
10.2. Chemical stability		
Stable under normal conditions.		
10.3. Possibility of hazardous reactions		
Not established.		
10.4. Conditions to avoid Direct sunlight. Extremely high or low temperatures.		
10.5. Incompatible materials silver nitrate. Strong reducing agents. Strong bases		
silver nitrate. Strong reducing agents. Strong ba		
10.6. Hazardous decomposition product	S	
Nitrogen oxides. mercury.		
SECTION 11: Toxicological informa	tion	
11.1. Information on toxicological effects	\$	
Likely routes of exposure	: Skin and eye contact	

Acute toxicity : Not classified

Mercury AA Standard, 1000ppm (1mL = 1mg Hg)		
LD50 dermal rat	2781 mg/kg	
ATE US (dermal)	2781.000 mg/kg body weight	
Mercuric Nitrate, Dihydrate (22852-67-1)		
LD50 oral rat	26 mg/kg (Rat)	
LD50 dermal rat	75 mg/kg (Rat)	
ATE US (oral)	26.000 mg/kg body weight	
ATE US (dermal)	5.000 mg/kg body weight	
ATE US (gases)	100.000 ppmV/4h	
ATE US (vapors)	0.500 mg/l/4h	
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Mercuric Nitrate, Dihydrate (22852-67-1)	
ATE US (dust, mist)	0.050 mg/l/4h
Water (7732-18-5)	
LD50 oral rat	≥ 90000 mg/kg
ATE US (oral)	90000.000 mg/kg body weight
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: May cause damage to organs (nervous system, blood, kidneys, intestinal tract) through prolonged or repeated exposure.
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/injuries after inhalation	: Irritation of the nasal mucous membranes.
Symptoms/injuries after skin contact	: Burns.
Symptoms/injuries after eye contact	: Causes serious eye damage.
Symptoms/injuries after ingestion	: Burns. Nausea. Vomiting. Diarrhoea.
Chronic symptoms	: Impairment of the nervous system. Decreased renal function.

SECTION 12: Ecological information

Toxicity 12.1. : Harmful to aquatic life. Ecology - water Mercury AA Standard, 1000ppm (1mL = 1mg Hg) EC50 Daphnia 1 55.6 mg/l Mercuric Nitrate, Dihydrate (22852-67-1) LC50 fish 1 < 1 mg/l (96 h; Pisces; Mercury ion) LC50 other aquatic organisms 1 < 1 mg/l (96 h) 0.0052 mg/l (48 h; Daphnia magna; Mercury ion) EC50 Daphnia 1 LC50 fish 2 0.033 ppm 96 h; Salmo gairdneri (Oncorhynchus mykiss) Threshold limit other aquatic organisms 1 < 1 mg/l (96 h) Threshold limit algae 1 0.4 ppm (Chlorella vulgaris; Mercury ion) Nitric Acid, 70% w/w (7697-37-2) LC50 fish 1 25 - 36 mg/l (96 h; Lepomis macrochirus; Pure substance) 180 mg/l (48 h; Daphnia magna; Pure substance) EC50 Daphnia 1 LC50 fish 2 72 ppm (Gambusia affinis; Pure substance) Threshold limit algae 1 > 19 mg/l (Algae; Pure substance)

12.2. Persistence and degradability

Mercury AA Standard, 1000ppm (1mL = 1mg Hg)	
Persistence and degradability	Not established.
Mercuric Nitrate, Dihydrate (22852-67-1)	
Persistence and degradability	Biodegradability: not applicable. Biodegradability in soil: not applicable. Adsorbs into the soil.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

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Nitric Acid, 70% w/w (7697-37-2) Persistence and degradability Biodegradability: not applicable. No test data on mobility of the	e components available.
Biochemical oxygen demand (BOD) Not applicable	
Chemical oxygen demand (COD) Not applicable	
ThOD Not applicable	
BOD (% of ThOD) Not applicable	
Water (7732-18-5)	
Persistence and degradability Not established.	
2.3. Bioaccumulative potential	
Mercury AA Standard, 1000ppm (1mL = 1mg Hg)	
Bioaccumulative potential Not established.	
Mercuric Nitrate, Dihydrate (22852-67-1)	
Bioaccumulative potential Bioaccumable.	
Nitric Acid, 70% w/w (7697-37-2)	
BCF fish 1 <= 1 (Pisces)	
Log Pow -2.3 (OECD 107: Partition Coefficient (n-octanol/water): Shake	e Flask Method)
Bioaccumulative potential Bioaccumulation: not applicable.	
Water (7732-18-5)	
Bioaccumulative potential Not established.	
2.4. Mobility in soil	
o additional information available	
2.5. Other adverse effects	
ffect on the global warming : No known ecological damage caused by this product.	
ther information : Avoid release to the environment.	
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DOT Special Provisions (49 CFR 172.102)	:	 B2 - MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks are not authorized. IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T11 - 6 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	:	154
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	:	1L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	:	30 L
DOT Vessel Stowage Location	:	B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
DOT Vessel Stowage Other	:	40 - Stow "clear of living quarters"
Other information	:	No supplementary information available.

TDG

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	
Mercury AA Standard, 1000ppm (1mL = 1mg Hg)	
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard
All components of this product are listed, or excluded to Substances Control Act (TSCA) inventory	from listing, on the United States Environmental Protection Agency Toxic
Chamical(a) subject to the reporting requirements of S	action 213 or Title III of the Superfund Amondments and Resulterization Act (SARA) of

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Mercuric Nitrate, Dihydrate	CAS No 22852-67-1	0.18%
Nitric Acid, 70% w/w	CAS No 7697-37-2	9.94%
Mercuric Nitrate, Dihydrate (22852-67-1)		
Listed on United States SARA Section 313		
RQ (Reportable quantity, section 304 of EPA's List of Lists)	10 lb	
Nitric Acid, 70% w/w (7697-37-2)		
Listed on United States SARA Section 313		
RQ (Reportable quantity, section 304 of EPA's List of Lists)	1000 lb	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard	

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15.2. International regulations

CANADA		
Mercury AA Standard, 1000ppm (1mL = 1mg Hg)		
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects	
Mercuric Nitrate, Dihydrate (22852-67-1)		
Listed on the Canadian DSL (Domestic Substan	ces List)	
WHMIS Classification	Class D Division 1 Subdivision A - Very toxic material causing immediate and serious toxic effects Class D Division 2 Subdivision A - Very toxic material causing other toxic effects	
Nitric Acid, 70% w/w (7697-37-2)		
Listed on the Canadian DSL (Domestic Substances List)		
WHMIS Classification	Class E - Corrosive Material Class C - Oxidizing Material	
Water (7732-18-5)		
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria	

EU-Regulations

No additional information available

National regulations

Mercuric Nitrate, Dihydrate (22852-67-1)
Listed on the Canadian IDL (Ingredient Disclosure List)
Nitric Acid, 70% w/w (7697-37-2)
Listed on the Canadian IDL (Ingredient Disclosure List)

15.3. US State regulations

California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer and/or reproductive toxicity

Mercuric Nitrate,	Dihydrate	(22852-67-1)

U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
No	Yes	No	No	

SECTION 16: Other information		
Revision date	: 10/02/2015	
Other information	: None.	

Safety Data Sheet

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

Full text of H-phrases: see section 16:	
Acute Tox. 1 (Dermal)	Acute toxicity (dermal) Category 1
Acute Tox. 2 (Inhalation)	Acute toxicity (inhalation) Category 2
Acute Tox. 2 (Oral)	Acute toxicity (oral) Category 2
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Met. Corr. 1	Corrosive to metals Category 1
Ox. Liq. 3	Oxidizing liquids Category 3
Skin Corr. 1A	Skin corrosion/irritation Category 1A
Skin Corr. 1B	Skin corrosion/irritation Category 1B
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
H272	May intensify fire; oxidizer
H290	May be corrosive to metals
H300	Fatal if swallowed
H310	Fatal in contact with skin
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H330	Fatal if inhaled
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H402	Harmful to aquatic life
H410	Very toxic to aquatic life with long lasting effects
NFPA health hazard	 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given. 0 - Materials that will not burn.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III Rating	
Health	 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given * - Chronic (long-term) health effects may result from repeated overexposure
Flammability	0 Minimal Hazard - Materials that will not burn
Physical	 O 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	: D
	D - Face shield and eye protection, Gloves, Synthetic apron

SDS US (GHS HazCom 2012)

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