

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 03/19/2014 Revision date: 01/06/2015

Supersedes: 03/19/2014

Version: 1.1

SECTION 1: Identificati 1.1. Product identifier	ion of the substance/mixture and of the company/undertaking
Product form	: Mixture
Product name	: Mercuric Nitrate, 0.0141N (0.0071M)
Product code	: LC16650
1.2. Relevant identified	uses of the substance or mixture and uses advised against
Use of the substance/mixture	: For laboratory and manufacturing use only.
1.3. Details of the supp	lier of the safety data sheet
LabChem Inc Jackson's Pointe Commerce P Zelienople, PA 16063 - USA T 412-826-5230 - F 724-473-0 info@labchem.com - <u>www.labc</u>	
1.4. Emergency telepho	one number
Emergency number	: CHEMTREC: 1-800-424-9300 or 011-703-527-3887
SECTION 2: Hazards id	lentification
2.1. Classification of the	e substance or mixture
Classification (GHS-US)	
Acute Tox. 4 (Dermal)H312STOT RE 2H373Aquatic Acute 3H402Aquatic Chronic 3H412	
Full text of H-phrases: see sec	tion 16
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	

Hazard	pictograms	(GHS-US)	
Tiazaiu	piciograms		

Hazard pictograms (GHS-US)	GHS07 GHS08
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	 H312 - Harmful in contact with skin H373 - May cause damage to organs (nervous system) through prolonged or repeated exposure H412 - Harmful to aquatic life with long lasting effects
Precautionary statements (GHS-US)	 P260 - Do not breathe mist, vapors, spray P273 - Avoid release to the environment P280 - Wear eye protection, protective gloves, protective clothing P302+P352 - IF ON SKIN: Wash with plenty of soap and water P312 - Call a poison center/doctor if you feel unwell P362+P364 - Take off contaminated clothing and wash it before reuse P501 - Dispose of contents/container to comply with local, state and federal regulations
2.3. Other hazards	
Other hazards not contributing to the classification	: None under normal conditions.
2.4. Unknown acute toxicity (GHS-US)	
Not applicable	
SECTION 3: Composition/information	on on ingredients
3.1. Substance	
Not applicable	

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3.2. Mixture			
Name	Product identifier	%	Classification (GHS-US)
Water	(CAS No) 7732-18-5	99.65	Not classified
Mercuric Nitrate, Dihydrate	(CAS No) 22852-67-1	0.25	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
Nitric Acid, 70% w/w	(CAS No) 7697-37-2	0.1	Ox. Liq. 3, H272 Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318

Full text of H-phrases: see section 16

1. Description of first aid measures irst-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). irst-aid measures after inhalation : Allow victim to breathe fresh air. Allow the victim to rest. irst-aid measures after inhalation : Allow victim to breathe fresh air. Allow the victim to rest. irst-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild scap and water, followed by warm water rinse. Immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist. irst-aid measures after eye contact : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. .2. Most important symptoms and effects, both acute and delayed : Repeated exposure to this material can result in absorption through skin causing significant heatr. ymptoms/injuries : Causes damage to organs. : Impairment of the nervous system. .3. Indication of any immediate medical attention and special treatment needed : Impairment of the nervous system. .1. Extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand. .1. Extinguishing media : Do not use a heavy water stream. .2. Special hazards arising from the substance or mixture : Do not use a heavy water stream. .3. Advice for firefighters : Use water spray or fog for cooling exposed	SECTION 4: First aid measures	
advice (show the label where possible). irst-aid measures after inhalation : Allow victim to breathe fresh air. Allow the victim to rest. irst-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild scap and water, followed by warm water rinse. Immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist. irst-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist. irst-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. 2. Most important symptoms and effects, both acute and delayed ymptoms/injuries : Causes damage to organs. ymptoms/injuries after skin contact : Repeated exposure to this material can result in absorption through skin causing significant health health hazard. Harmful in contact with skin. .thoric symptoms : Impairment of the nervous system. .a. Indication of any immediate medical attention and special treatment needed Utable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand. .insultable extinguishing media : Do not use a heavy water stream. .a. Special hazards arising from the substance or mixture to additional information available : Use water spray or fog for cooling exposed containers. Exercise caution whe	4.1. Description of first aid measures	
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Personal precautions, protective equipment and emergency procedures .1.1. For non-emergency personnel protective equipment : Safety glasses. Protective clothing. Gloves.	SECTION 6: Accidental release meas	ures
.1.1. For non-emergency personnel rotective equipment : Safety glasses. Protective clothing. Gloves.		
rotective equipment : Safety glasses. Protective clothing. Gloves.		
	5	· Safety glasses Protective clothing Gloves
	0	
	Protective equipment	
mergency procedures : Ventilate area.	Emergency procedures	: Ventilate area.
	6.2. Environmental precautions	
	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 mat	erial for containment and cleaning up	
Aethods for cleaning up		ert solids, such as clay or diatomaceous earth as soon as possible. Collect rom other materials.
.4. Reference to othe	er sections	
See Heading 8. Exposure co	ntrols and personal protection.	
SECTION 7: Handling	and storage	
7.1. Precautions for s		
Precautions for safe handling	: Wash hands and othe smoking and when lea	er exposed areas with mild soap and water before eating, drinking or aving work. Provide good ventilation in process area to prevent formation ing mist, vapors, spray.
7.2. Conditions for sa	fe storage, including any incompatibilities	
Storage conditions	: Keep container closed	J when not in use.
ncompatible products	: Strong reducing agen	ts. silver nitrate. Strong bases.
ncompatible materials	: Sources of ignition. Di	rect sunlight.
7.3. Specific end use(s)	
No additional information ava	ailable	
SECTION 8: Exposure	controls/personal protection	
3.1. Control paramete		
Mercuric Nitrate, 0.0141N	(0.0071M)	
ACGIH	Not applicable	
OSHA	Not applicable	
Morourio Nitroto Dibudro	(22952 67 1)	
Mercuric Nitrate, Dihydra ACGIH	ACGIH TWA (mg/m ³)	0.025 mg/m ³
OSHA	OSHA PEL (TWA) (mg/m ³)	0.1 mg/m ³ as Hg
		0.1 mg/m as ng
Nitric Acid, 70% w/w (769	7-37-2)	
ACGIH	ACGIH TWA (ppm)	2 ppm
OSHA	OSHA PEL (TWA) (mg/m ³)	5 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	2 ppm
Water (7732-18-5)		
ACGIH	Not applicable	
OSHA		
	Not applicable	
3.2. Exposure control	S	
Appropriate engineering cont		fountains and safety showers should be available in the immediate
The second secon		al exposure. Ensure adequate ventilation.
Personal protective equipme	nt : Avoid all unnecessary	exposure.
Hand protection	: Wear protective glove	
Eye protection	: Chemical goggles or s	
Respiratory protection	: Wear appropriate mas	
Other information	: Do not eat, drink or sr	noke during use.
SECTION 9: Physical	and chemical properties	
	sic physical and chemical properties	
Physical state	· Liquid	

Physical	state	:	Liquid
Color		:	Colorless
Odor		:	None.
Odor thr	eshold	:	No data available
pН		:	No data available
Relative	evaporation rate (butyl acetate=1)	:	No data available

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Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
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
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available
9.2. Other information	

No additional information available

SECT	ON 10: Stability and reactivity
10.1.	Reactivity
No addi	tional information available
10.2.	Chemical stability
Stable u	nder normal conditions.
10.3.	Possibility of hazardous reactions
Not esta	blished.
10.4.	Conditions to avoid
Direct s	unlight. Extremely high or low temperatures.
10.5.	Incompatible materials
silver nit	rate. Strong reducing agents. Strong bases.
10.6.	Hazardous decomposition products
Nitroger	n oxides. mercury.
SECT	ON 11: Toxicological information

Information on toxicological effects 11.1.

Acute toxicity

: Dermal: Harmful in contact with skin.

Mercuric Nitrate, 0.0141N (0.0071M		
LD50 oral rat	20214 mg/kg	
LD50 dermal rat	1966.3 mg/kg	
LC50 inhalation rat (mg/l)	19.44 mg/l/4h	
ATE US (oral)	20214.000 mg/kg body weight	
ATE US (dermal)	1966.300 mg/kg body weight	
ATE US (vapors)	19.440 mg/l/4h	
ATE US (dust, mist)	19.440 mg/l/4h	
Mercuric Nitrate, Dihydrate (22852-	;7-1)	
LD50 oral rat	26 mg/kg (Rat)	
LD50 dermal rat	75 mg/kg (Rat)	
ATE US (oral)	26.000 mg/kg body weight	
04/00/0015		4/0

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Mercuric Nitrate, Dihydrate (22852-67-1)	
ATE US (dermal)	5.000 mg/kg body weight
ATE US (gases)	100.000 ppmV/4h
ATE US (vapors)	0.500 mg/l/4h
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	: Not classified
Serious eye damage/irritation	: Not classified
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) 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. Harmful in contact with skin.
Symptoms/injuries after skin contact	: Repeated exposure to this material can result in absorption through skin causing significant health hazard. Harmful in contact with skin.
Chronic symptoms	: Impairment of the nervous system.
SECTION 12: Ecological information	

life. Harmful to aquatic life with long lasting effects.
ces; Mercury ion)
Daphnia magna; Mercury ion)
almo gairdneri (Oncorhynchus mykiss)
vulgaris; Mercury ion)
Lepomis macrochirus; Pure substance)
phnia magna; Pure substance)
affinis; Pure substance)
Pure substance)

12.2. Persistence and degradability		
Mercuric Nitrate, 0.0141N (0.0071M)		
Persistence and degradability May cause long-term adverse effects in the environment.		
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	
04/00/0045		

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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 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	
Mercuric Nitrate, 0.0141N (0.0071M)	
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 Flask Method)
Bioaccumulative potential	Bioaccumulation: not applicable.
Water (7732-18-5)	
Bioaccumulative potential	Not established.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects	
Effect on ozone layer	:
Effect on the global warming	: No known ecological damage caused by this product.
Other information	: Avoid release to the environment.
SECTION 13: Disposal consideration	ns
13.1. Waste treatment methods	
Waste disposal recommendations	Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations.
Ecology - waste materials	: Avoid release to the environment.
SECTION 14: Transport information	
In accordance with DOT	
Not regulated for transport	
Additional information	

Other information

: No supplementary information available.

ADR

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

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SECTION 15: Regulatory information

15.1. US Federal regulations

Mercuric Nitrate, 0.0141N (0.0071M)

SARA Section 311/312 Hazard Classes Delayed (chronic) health hazard

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

Mercuric Nitrate, Dihydrate (22852-67-1)		
Listed on United States SARA Section 313		
RQ (Reportable quantity, section 304 of EPA's 10 lb 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	

15.2. International regulations	
CANADA	
Mercuric Nitrate, 0.0141N (0.0071M)	
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 Sustances	s 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 Sustances	s List)
WHMIS Classification	Class E - Corrosive Material Class C - Oxidizing Material
Water (7732-18-5)	
Listed on the Canadian DSL (Domestic Sustances	s List)
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria

EU-Regulations

No additional information available

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

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

15.2.2. 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)	
Water (7732-18-5)	
Not 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

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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

: 01/06/2015

Revision date Other information

: None.

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
Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
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
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
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
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
H312	Harmful 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
H412	Harmful to aquatic life with long lasting effects

NFPA health hazard

NFPA fire hazard

NFPA reactivity

: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

: 0 - Materials that will not burn.

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

HMIS III Rating	
Health	: * Chronic Hazard - Chronic (long-term) health effects may result from repeated overexposure
Flammability	: 0 Minimal Hazard
Physical	: 0 Minimal Hazard
Personal Protection	: C

SDS US (GHS HazCom 2012)

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