EXAXOL CHEMICAL CORPORATION Revision nr. 1 Dated 21/9/2017					
M5042 - Mercury AA Standard 1,000ppm in 2% Nitric Acid Printed on 9/21/2017 Page n. 1/13					
Safety data sheet according to U.S.A. Federal Hazcom 2012					
SECTION 1. Identi	ification of the subs	tance/mixture and of the company/u	ndertaking		
1.1. Product identifier Code: Product name		M5042 Mercury AA Standard 1,000ppm in 2% Nitric Acid			
1.2. Relevant identified u Intended use	uses of the substance or m For laboratory use on	ixture and uses advised against ly.			
Name Full address District and Country	er of the safety data sheet	EXAXOL CHEMICAL CORPORATION 14325 60 TH ST N 33760 CLEARWATER - FLORIDA US Tel. 1-727-524-7732 Fax 1-727-532-8221			
e-mail address		info@exaxol.com			
1.4. Emergency telephor For urgent inquiries refer t		1-800-255-3924 ChemTel Inc.			
SECTION 2. Hazar	rds identification.				
product thus requires a safe	hazardous pursuant to the ety datasheet.	provisions set forth in OSHA Hazard Communication and/or the environment are given in sections 11 and			
Classification and Hazard S Eye irritation, category 2 Skin irritation, category 2	tatement.	Causes serious eye irritatior Causes skin irritation.			
Signal words:	Warning				
Hazard statements:					
H319 H315	Causes serious eye irritatio Causes skin irritation.	n.			

M5042 - Mercury AA Standard 1,000ppm in 2% Nitric Acid

Revision nr. 1

Dated 21/9/2017 Printed on 9/21/2017

Page n. 2/13

Precautionary statements:

Preve	ntion:	
P264	4	Wash skin thoroughly after handling.
P280	0	Wear protective gloves / eye protection / face protection.
Respo	onse:	
P302	2+P352	IF ON SKIN: wash with plenty of water.
P30	5+P351+P338	IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P32	1	Specific treatment (see label).
P332	2+P313	If skin irritation occurs: get medical advice.
P337	7+P313	If eye irritation persists: get medical advice / attention.
P362	2+P364	Take off contaminated clothing and wash it before reuse.
Storag	je:	
Dispos	sal:	

2.2. Other hazards.

The product is not classified as hazardous for environment pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP).

SECTION 3. Composition/information on ingredients.

3.1. Substances.

Information not relevant.

3.2. Mixtures.

Contains:

Identification.	Conc. %.	Classification:
WATER		
CAS. 7732-18-5	50 - 100	
NITRIC ACID		
CAS. 7697-37-2	1 - 3	Oxidising liquid, category 3 H272, Skin corrosion, category 1A H314
Mercury(II) Nitrate Monohydrate		
CAS. 7783-34-8	0 - 0.25	

Note: Upper limit is not included into the range.

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures.

4.1. Description of first aid measures.

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

Revision nr. 1

Page n. 3/13

M5042 - Mercury AA Standard 1,000ppm in 2% Nitric Acid

Dated 21/9/2017

Printed on 9/21/2017

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

4.2. Most important symptoms and effects, both acute and delayed.

For symptoms and effects caused by the contained substances, see chap. 11.

4.3. Indication of any immediate medical attention and special treatment needed.

Information not available.

SECTION 5. Firefighting measures.

5.1. Extinguishing media.

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide and chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water.

Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

5.2. Special hazards arising from the substance or mixture.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

If large quantities of the product are involved in a fire, they can make it considerably worse. Do not breathe combustion products.

5.3. Advice for firefighters.

GENERAL INFORMATION

In the case of fire, use jets of water to cool the containers to prevent the risk of explosions (product decomposition and excess pressure) and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Remove all containers containing the product from the fire, if it is safe to do so.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures.

6.1. Personal precautions, protective equipment and emergency procedures.

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions.

Revision nr. 1

M5042 - Mercury AA Standard 1,000ppm in 2% Nitric Acid

Dated 21/9/2017

Printed on 9/21/2017 Page n. 4/13

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up.

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Check incompatibility for container material in section 7. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections.

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage.

7.1. Precautions for safe handling.

Ensure that there is an adequate earthing system for the equipment and personnel. Avoid contact with eyes and skin. Do not breathe powders, vapours or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities.

Store only in the original container. Store in a ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s).

Information not available.

SECTION 8. Exposure controls/personal protection.

8.1. Control parameters.

Regulatory References:

USA USA	NIOSH-REL OSHA-PEL	NIOSH publication No. 2005-149, 3th printing, 2007. Occupational Exposure Limits - Limits for Air Contaminants TABLE Z-1- 1910.1000.
USA	CAL/OSHA-PEL	California Division of Occupational Safety and Health (Cal-OSHA) Permissible Exposure Limits (PELs).
EU	OEL EU	Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC.
	TLV-ACGIH	ACGIH 2014

NITRIC ACID

Threshold Limit Value.

Revision nr. 1

M5042 - Mercury AA Standard 1,000ppm in 2% Nitric Acid

Dated 21/9/2017

Printed on 9/21/2017 Page n. 5/13

Туре	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
TLV-ACGIH	-	5.2	2	10.3	4
OEL	EU			2.6	1
OSHA	USA	5	2		
CAL/OSHA	USA	5	2	10	4
NIOSH	USA	5	2	10	4

8.2. Exposure controls.

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice. Personal protective equipment must comply with current regulations.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves (OSHA 29 CFR 1910.138).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (OSHA 29 CFR 1910.133).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, wear a mask with a NIOSH certified filter, whose class must be chosen according to the limit of use concentration (NIOSH 42 CFR 84, OSHA 29 CFR 1910.134). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus or external air-intake breathing apparatus. For a correct choice of respiratory protection device, see standard NIOSH 42 CFR 84 and OSHA 29 CFR 1910.134.

ENVIRONMENTAL EXPOSURE CONTROLS.

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties.

9.1. Information on basic physical and chemical properties.

Appearance Colour Odour Odour threshold. pH. Melting point / freezing point. Initial boiling point. Boiling range. Elach point	Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available.
Flash point.	> 93 °C.

M5042 - Mercury AA Standard 1,000ppm in 2% Nitric Acid

Revision nr. 1 Dated 21/9/2017

Page n. 6/13

Printed on 9/21/2017

Evaporation Rate

Flammability of solids and gases Lower inflammability limit. Upper inflammability limit. Lower explosive limit. Upper explosive limit. Vapour pressure. Vapour density Relative density. Solubility Partition coefficient: n-octanol/water Auto-ignition temperature. Decomposition temperature. Viscosity Explosive properties Oxidising properties

Not available. 1.006 Kg/l Not available. Not available. Not available. Not available. Not available. Not available. Not available.

9.2. Other information.

Information not available.

SECTION 10. Stability and reactivity.

10.1. Reactivity.

NITRIC ACID: decomposes at 84°C with possibility of self-ignition.

10.2. Chemical stability.

Information not available.

10.3. Possibility of hazardous reactions.

The product may react violently with water.

10.4. Conditions to avoid.

Avoid overheating. Prevent moisture or water from penetrating inside the containers.

NITRIC ACID: exposure to heat and light.

10.5. Incompatible materials.

NITRIC ACID: flammable substances, reducing substances, alcohol, basic substances and metals; acetone, acetic acid, acetic anhydride and certain plastics.

10.6. Hazardous decomposition products.

NITRIC ACID: nitric oxides.

CEO (Inhalation):07 ppm/4h Rat SECTION 12. Ecological information. Ito aspecific data are available for this product. Handle it according to good working practices. Avoid littering. Do not contaminate soil, severs a raterways. Inform the competent authorities, should the product reach waterways or severs or contaminate soil or vegetation. Please take all the product reach waterways or severs or contaminate soil or vegetation. Please take all the product reach waterways or severs or contaminate soil or vegetation. Please take all the product reach waterways or severs or contaminate soil or vegetation. Please take all the product reach waterways or severs or contaminate soil or vegetation. Please take all the product reach waterways or severs or contaminate soil or vegetation. Please take all the product reach waterways or severs or contaminate soil or vegetation. Please take all the product reach waterways or severs or contaminate soil or vegetation. Please take all the product reach waterways or severs or contaminate soil or vegetation. Please take all the product reach waterways or severs or contaminate soil or vegetation. Please take all the product reach waterways or severs or contaminate soil or vegetation. Please take all the product reach waterways or severs or contaminate soil or vegetation. Please take all the product reach waterways or severs or contaminate soil or vegetation. Please take all the product reach waterways or severs or contaminate soil or vegetation. Please take all the product reach waterways or severs or contaminate soil or vegetation. 12.1. Toticity 12.2. Presistence and degradability. NITRIC ACID 2.3. Bioaccumulative potential. NITRIC ACID 2.1. Mobility in soil. tortoration not available. 12.1.	EXAXO	OL CHEMICAL CORPORATION	Revision nr. 1 Dated 21/9/2017
11.1.Information on toxicological effects. The absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, us the order aspectified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the induid azardsus substances indicated in account with skin may cause health disorders, including stomach pain and sting, nausea and sickness. INTER CACID Cological Information. To support the competent authorities, should the product reach waterways or severs or contaminate soil or vegetation. Please take all the product reach waterways or severs or contaminate soil or vegetation. Please take all the product reach waterways or severs or contaminate soil or vegetation. Please take all the product reach waterways or severs or contaminate soil or vegetation. Please take all the product reach waterways or severs or contaminate soil or vegetation. Please take all the product reach waterways or severs or contaminate soil or vegetation. Please take all the product reach waterways or severs or contaminate soil or vegetation. Please take all the product reach waterways or severs or contaminate soil or vegetation. Please take all the product reach waterways or severs or contaminate soil or vegetation. Please take all the product reach waterways or severs or contaminate soil or vegetation. Please take all the product reach waterways or severs or contaminate soil or vegetation. Please take all the product reach waterways or severs or contaminate soil or vegetation. Please take all the product reach waterways or severs or contaminate soil or vegetation. Please take all the product reach waterways or severs or contaminate soil or vegetation. Please take all the product reach waterways or severs or contaminate soil or vegetation. Please take all the product reach waterways or severs or contaminate soil or vegetation. Please take all the product reach w	M5042 - Mercury		
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Revision nr. 1

M5042 - Mercury AA Standard 1,000ppm in 2% Nitric Acid

Dated 21/9/2017

Printed on 9/21/2017 Page n. 8/13

SECTION 13. Disposal considerations.

13.1. Waste treatment methods.

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to dangerous goods transport regulations. CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information.

14.1. UN number.

ADR / RID, IMDG, UN: 3264 IATA:

14.2. UN proper shipping name.

ADR / RID:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID)
IMDG:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID)

IATA:

14.3. Transport hazard class(es).

ADR / RID:	Class: 8	Label: 8
IMDG:	Class: 8	Label: 8
IATA:	Class: 8	Label: 8

14.4. Packing group.

ADR / RID, IMDG,	Ш
IATA:	

14.5. Environmental hazards.

ADR / RID: NO

14.6. Special precautions for user.



Revision nr. 1

M5042 - Mercury AA Standard 1,000ppm in 2% Nitric Acid

Dated 21/9/2017

Printed on 9/21/2017 Page n. 9/13

Special Provision: -	code (E)
IMDG: EMS: F-A, S-B Limited	
IATA: Cargo: Quantity 5 L Maximum quantity: 60 L	Packaging instructions: 856
Pass.: Maximum quantity: 5 L	Packaging instructions: 852
Special Instructions: A3, A803	002
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code.	
Information not relevant.	
SECTION 15. Regulatory information.	
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture.	
U.S. Federal Regulations.	
Clean Air Act Section 112(b):	
7783-34-8 Mercury(II) Nitrate Monohydrate (Mercury inorganic compounds)	
Clean Air Act Section 602 Class I Substances:	
No component(s) listed.	
Clean Air Act Section 602 Class II Substances:	
No component(s) listed.	
<u>Clean Water Act –</u> Priority Pollutants:	
No component(s) listed.	
<u>Clean Water Act –</u> <u>Toxic Pollutants:</u>	
7783-34-8 Mercury(II) Nitrate Monohydrate (Mercury inorganic compounds)	
DEA List I Chemicals (Precursor Chemicals):	
No component(s) listed.	
DEA List II Chemicals (Essential Chemicals):	
No component(s) listed.	

M5042 - Mercury AA Standard 1,000ppm in 2% Nitric Acid

Revision nr. 1

Dated 21/9/2017 Printed on 9/21/2017

Page n. 10/13

EPA List of Lists:

313 Category Code:

7783-34-8	Mercury(II) Nitrate Monohydrate (Mercury inorganic compounds)
7697-37-2	NITRIC ACID
EPCRA 302 EHS TPQ:	
7697-37-2	NITRIC ACID
EPCRA 304 EHS RQ:	
7697-37-2	NITRIC ACID
CERCLA RQ:	
7697-37-2	NITRIC ACID
EPCRA 313 TRI:	
7783-34-8	Mercury(II) Nitrate Monohydrate (Mercury inorganic compounds)
7697-37-2	NITRIC ACID
RCRA Code:	
No component(s) listed.	
CAA 112 (r) RMP TQ:	
No component(s) listed.	
State Regulations.	
Massachussetts:	
7697-37-2	NITRIC ACID
Minnesota:	
7697-37-2	NITRIC ACID
New Jersey:	
7783-34-8	Mercury(II) Nitrate Monohydrate (Mercury inorganic compounds)
7783-34-8	Mercury(II) Nitrate Monohydrate (Mercury inorganic compounds)
7697-37-2	NITRIC ACID
New York:	
7697-37-2	NITRIC ACID
Pennsylvania:	
7697-37-2	NITRIC ACID
California:	
7783-34-8	Mercury(II) Nitrate Monohydrate

Revision nr. 1

M5042 - Mercury AA Standard 1,000ppm in 2% Nitric Acid

Dated 21/9/2017

Printed on 9/21/2017 Page n. 11/13

7697-37-2

Proposition 65:

(Mercury inorganic compounds) NITRIC ACID

WARNING! This product contains chemicals known to the State of California to cause cancer and birth defects or reproductive harm.

7783-34-8

Mercury(II) Nitrate Monohydrate (Mercury inorganic compounds)

International Regulations.

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

Substances subject to the Rotterdam Convention:

Mercury(II) Nitrate Monohydrate

Mercury(II) Nitrate Monohydrate

Substances subject to the Stockholm Convention:

Mercury(II) Nitrate Monohydrate
()

Candadian WHMIS.

Information not available.

SECTION 16. Other information.

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Ox. Liq. 3	Oxidising liquid, category 3
Acute Tox. 1	Acute toxicity, category 1
Acute Tox. 2	Acute toxicity, category 2
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Skin Corr. 1A	Skin corrosion, category 1A
Skin Corr. 1B	Skin corrosion, category 1B
Skin Corr. 1C	Skin corrosion, category 1C
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1 $% \left({{{\rm{T}}_{{\rm{T}}}}_{{\rm{T}}}} \right)$
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2 $% \left({{{\rm{D}}_{{\rm{D}}}}} \right)$
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category ${\bf 3}$
Aquatic Chronic 4	Hazardous to the aquatic environment, chronic toxicity, category ${\bf 4}$
H272	May intensify fire; oxidiser.
H310	Fatal in contact with skin.
H300	Fatal if swallowed.

Revision nr. 1

M5042 - Mercury AA Standard 1,000ppm in 2% Nitric Acid

Dated 21/9/2017

Printed on 9/21/2017 Page n. 12/13

Revision nr. 1

Page n. 13/13

M5042 - Mercury AA Standard 1,000ppm in 2% Nitric Acid

Dated 21/9/2017

Printed on 9/21/2017

- List Of Lists EPA: Consolidated List of Chemicals Subject to EPCRA, CERCLA and Section 112® of the Clean Air Act

- Massachussetts 105 CMR Department of public health 670.000: "Right to Know"

- Minensota Chapter 5206 Departemnt Of Labor and Industry Hazardous Substances, Employee "Right to Know".

- New Jersey Worker and Community Right to know Act N.J.S.A.

- NTP. 2011. Report on Carcinogens, 12th Edition.

- OSHA website

- Pennsylvania, Hazardous Substance List, Chapter 323

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.