

# **SAFETY DATA SHEET**

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifiers

Product name Mercury(I) nitrate dihydrate

CAS number 7782-86-7

Synonyms N/A

## 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Laboratory chemicals.

## 1.3 Details of the supplier of the safety data sheet

Company Lab Alley, LLC

12501 Pauls Valley Road Austin, Texas 78737

U.S.A.

Telephone 512-668-9918 Fax 512-886-4008

## 1.4 Emergency telephone

Emergency Phone # US & Canada: 1-800-535-5053 INFOTRAC

International 1-352-323-3500 INFOTRAC

#### **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

# GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute Oral Toxicity

Acute Dermal Toxicity

Acute Inhalation Toxicity

Specific Target Organ Toxicity (repeated exposure)

Category 2

Category 2

Category 2

Target Organ(s) - Urinary Tract

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# 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word Danger

Hazard statements May cause damage to organs through prolonged or repeated

exposure.

Fatal if swallowed, in contact with skin, or if inhaled.

Precautionary statements

Prevention: Wash face, hands, and any exposed skin thoroughly after handling. Do not eat, drink, or smoke when using this product. Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Wear respiratory protection.

Response: Get medical attention/advice if you feel unwell.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

IF ON SKIN: Gently wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or doctor/physician.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth.

Storage: Store locked up. Store in a well-ventilated place. Keep container tightly closed.

Disposal: Dispose of contents/container to an approved waste disposal plant.

# 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Very toxic to aquatic life with long lasting effects.

WARNING: Reproductive Harm - https://www.p65warnings.ca.gov/.

## **SECTION 3: Composition/information on ingredients**

## 3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration	
Mercury(I) nitrate dihydrate	Mercurous nitrate dihydrate	7782-86-7	<=100%	

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Mercurv(I) nitrate	Mercurous nitrate	10415-75-5	_
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#### **SECTION 4: First aid measures**

# 4.1 Description of first-aid measures

#### General advice

**If inhaled** Remove to fresh air. If not breathing, give artificial respiration. Do not use

mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical

attention is required.

In case of skin contact Wash off immediately with plenty of water for at least 15 minutes. Immediate

medical attention is required.

**In case of eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Seek medical advice.

If swallowed Do NOT induce vomiting. Call a physician or poison control center

immediately.

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

None reasonably foreseeable.

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

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required. Treat symptomatically.

## **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing media Not combustible.

**Unsuitable extinguishing media**No information available.

## 5.2 Specific hazards arising from the substance or mixture

Do not allow run-off from fire-fighting to enter drains or water courses. Hazardous Combustion Products: Nitrogen oxides (NOx). Mercury oxide.

# 5.3 Special protective equipment and precautions for firefighters

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As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

#### 5.4 Further information

Flash Point No information available.

**Autoignition Temperature** No information available.

**Explosion limits** 

Upper No data available.Lower No data available.

Sensitivity to Mechanical Impact No information available.

Sensitivity to Static Discharge No information available.

**NFPA** 

Health	Flammability	Instability	Physical hazards
4	0	0	-

## **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.

# 6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. Should not be released into the environment.

## 6.3 Methods and materials for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

#### 6.4 Reference to other sections

See Section 2 for full list of hazard and precaution statements.

# **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

## Precautions on safe handling

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Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Avoid dust formation. Use only under a chemical fume hood. Do not breathe (dust, vapor, mist, gas). Do not ingest. If swallowed, seek immediate medical assistance.

## Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

# 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

Keep containers tightly closed in a dry, cool, and well-ventilated place.

## Incompatibilities

Oxidizing agents.

# SECTION 8: Exposure controls/personal protection

# 8.1 Occupational exposure limits

## US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Component	Type	Value	
Mercurous nitrate dihydrate	(Vacated) Ceiling	0.1 mg/m3	

#### **US. ACGIH Threshold Limit Values**

Component	Type	Value
Mercurous nitrate dihydrate	TWA	0.025 mg/m3

## **US. NIOSH: Pocket Guide to Chemical Hazards**

Component	Type	Value	
	IDLH	10 mg/m3	
Mercurous nitrate dihydrate	TWA	0.05 mg/m3	
	Ceiling	0.1 mg/m3	

# Biological occupational exposure limits

No information available.

# 8.2 Exposure controls

#### Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

#### Personal protective equipment

## **Eye/face protection**

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Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

#### Skin protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

#### **Body Protection**

Wear appropriate protective gloves and clothing to prevent skin exposure.

#### Respiratory protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Recommended Filter type: Particulates filter conforming to EN 143.

## Control of environmental exposure

No information available.

## **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

Physical State Solid
Appearance White
Odor Odorless

Odor Threshold No information available

pH Not applicable Melting Point/Range 70 °C / 158 °F

Boiling Point/Range No information available

Evaporation Rate Not applicable

Flammability (solid) No information available

Flammability or explosive limit No data available

Upper

Lower

Vapor Pressure No information available

Vapor Density Not applicable Density 4.8 g/cm3

Solubility No information available

Partition coefficient: No data available

n-octanol/water

Autoignition Temp

No information available

Decomposition Temp

No information available

Viscosity

Molecular Formula

Molecular Weight

Not applicable

Hg2(NO3)2.2H2O

561.22 g/mol

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VOC Content(%)
Oxidizing properties

No information available No information available

# 9.2 Other safety information

No information available.

## **SECTION 10: Stability and reactivity**

# 10.1 Reactivity

No information available.

## 10.2 Chemical stability

Light sensitive.

# 10.3 Possibility of hazardous reactions

None under normal processing.

## 10.4 Conditions to avoid

Incompatible products

# 10.5 Incompatible materials

Oxidizing agents.

# 10.6 Hazardous decomposition products

Nitrogen oxides (NOx), Mercury oxide.

# **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

## **Product Information, Component Information**

**Acute toxicity** 

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Mercurous nitrate	170 mg/kg (Rat)	-	-

#### Skin corrosion/irritation

No information available.

## Serious eye damage/eye irritation

No information available.

## Respiratory or skin sensitization

No information available.

## Germ cell mutagenicity

No information available.

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Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Mercurous nitrate dihydrate	7782-86-7	Not listed				
Mercurous nitrate	10415-75-5	Not listed				

# Specific target organ toxicity - single exposure

None known.

## Specific target organ toxicity - repeated exposure

Urinary tract.

## Reproductive toxicity

No information available.

#### **Chronic effects**

No information available.

#### 11.2 Additional Information

The toxicological properties have not been fully investigated.

# **SECTION 12: Ecological information**

# 12.1 Toxicity

Very toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment. Do not allow material to contaminate ground water system.

# 12.2 Persistence and degradability

May persist.

## 12.3 Bio accumulative potential

No information available.

# 12.4 Mobility in soil

No information available.

#### 12.5 Results of PBT and vPvB assessment

No information available.

## 12.6 Endocrine disrupting properties

No information available.

## 12.7 Other adverse effects

No information available.

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# **SECTION 13: Disposal considerations**

## 13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

# **SECTION 14: Transport information**

DOT (US)

UN-no UN1627

Proper Shipping Name MERCUROUS NITRATE

Hazard Class 6.1 Packing Group II

**IMDG** 

UN-no UN1627

Proper Shipping Name MERCUROUS NITRATE

Hazard Class 6.1 Packing Group II

**IATA** 

UN-no UN1627

Proper Shipping Name MERCUROUS NITRATE

Hazard Class 6.1 Packing Group II

# **SECTION 15: Regulatory information**

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not applicable.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Listed, Mercurous nitrate dihydrate (CAS #7782-86-7), RQ: 10 lb. Listed, Mercurous nitrate (CAS #10415-75-5), RQ: 10 lb.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

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## SARA 302 Extremely hazardous substance

Not listed.

#### SARA 311/312 Hazardous

See Section 2 for more information.

#### SARA 313 (TRI reporting)

Listed, Mercurous nitrate dihydrate (CAS #7782-86-7). Listed, Mercurous nitrate (CAS #10415-75-5).

## Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Listed, Mercurous nitrate dihydrate (CAS #7782-86-7).

Listed, Mercurous nitrate (CAS #10415-75-5).

# Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

## Clean Water Act (CWA)

Listed, Mercurous nitrate dihydrate (CAS #7782-86-7). Listed, Mercurous nitrate (CAS #10415-75-5), RQ: 10 lb.

# FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Not listed.

#### **US** state regulations

#### **US. Massachusetts RTK - Substance List**

Listed, Mercurous nitrate dihydrate (CAS #7782-86-7). Listed, Mercurous nitrate (CAS #10415-75-5).

#### **US. New Jersey Worker and Community Right-to-Know Act**

Listed, Mercurous nitrate dihydrate (CAS #7782-86-7). Listed, Mercurous nitrate (CAS #10415-75-5).

## US. Pennsylvania Worker and Community Right-to-Know Law

Listed, Mercurous nitrate dihydrate (CAS #7782-86-7). Listed, Mercurous nitrate (CAS #10415-75-5).

#### California Proposition 65

Listed, Mercurous nitrate dihydrate (CAS #7782-86-7). Listed, Mercurous nitrate (CAS #10415-75-5).

#### **SECTION 16: Other information**

Issue date: 07/12/2024 Revision 1: 12/19/2024

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# **SECTION 17: Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

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