

SAFETY DATA SHEET

Revision Date 21-Feb-2020

Revision Number 2

1. Identification			
Product Name	Mercury (I) nitrate		
Cat No. :	A16268		
CAS-No Synonyms	14836-60-3 No information available		
Recommended Use Uses advised against Details of the supplier of the safety	Laboratory chemicals. Food, drug, pesticide or biocidal product use. <u>/ data sheet</u>		
Company Alfa Aesar Thermo Fisher Scientific Chemicals, 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757 Email: tech@alfa.com www.alfa.com	Inc.		
Emergency Telephone Number During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.			

2. Hazard(s) identification

Category 2

Category 1

Category 2

Category 2

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity Acute dermal toxicity Acute Inhalation Toxicity - Dusts and Mists Specific target organ toxicity - (repeated exposure) Target Organs - Urinary Tract.

Label Elements

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/eve 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

Inhalation

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

Skin

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

Ingestion

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

Hazards not otherwise classified (HNOC)

Very toxic to aquatic life with long lasting effects

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

3. Composition/Information on Ingredients

Compo	nent	CAS-No	Weight %	
Mercury (I) nitrate	14836-60-3	<=100	
	4.	First-aid measures		
General Advice	Show this sa required.	fety data sheet to the doctor in attend	dance. Immediate medical attention is	
Eye Contact		In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.		
Skin Contact		Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.		
Inhalation		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.
Do NOT induce vomiting. Call a physician or poison control center immediately.
None reasonably foreseeable.
Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media	Not combustible.
Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact Sensitivity to Static Discharge	No information available No information available
ochoning to oracle Discharge	

Specific Hazards Arising from the Chemical

Do not allow run-off from fire-fighting to enter drains or water courses.

Hazardous Combustion Products

Nitrogen oxides (NOx). Mercury oxide.

Protective Equipment and Precautions for Firefighters

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.

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Health 4	Flammability 0	Instability 0	Physical hazards -
	6. Accidental rel	lease measures	
Personal Precautions			lipment as required. Avoid dust ak. Evacuate personnel to safe
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.		

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Up

	7. Handling and storage
Handling	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 then seek immediate medical assistance.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Mercury (I) nitrate	TWA: 0.025 mg/m ³	(Vacated) Ceiling: 0.1 mg/m ³	IDLH: 10 mg/m ³	TWA: 0.025 mg/m ³
	Skin		TWA: 0.05 mg/m ³	-
			Ceiling: 0.1 mg/m ³	

<u>Legend</u>

ACGIH - American Conference of Governmental Industrial Hygienists OSHA - Occupational Safety and Health Administration NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health

Engineering Measures	Ensure adequate ventilation, especially in confined areas.
Personal Protective Equipment	
Eye/face Protection	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 and 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.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physica	al and chemical properties
Physical State	Solid Crystalline
Appearance	White
Odor	Odorless
Odor Threshold	No information available
pH	No information available
Melting Point/Range	70 °C / 158 °F
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	4.8 g/cm3
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	HgN 03.2H2 O
Molecular Weight	561.22 (525.19anhy)
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10. Stability and reactivity

Reactive Hazard

None known, based on information available

Stability	Light sensitive.
Conditions to Avoid	Incompatible products.
Incompatible Materials	Oxidizing agent
Hazardous Decomposition Product	s Nitrogen oxides (NOx), Mercury oxide
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information Component Informa Toxicologically Syn Products Delayed and immed	ition ergistic	No information available well as chronic effects from short and long-term exposure				
Irritation		No information available				
Sensitization		No information available				
Carcinogenicity		The table below indicates whether each agency has listed any ingredient as a carcinogen.				as a carcinogen.
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Mercury (I) nitrate	14836-60-3	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information ava	ailable		•	
Reproductive Effect	S	No information available.				
Developmental Effe	cts	No information ava	ailable.			
Teratogenicity		No information available.				
STOT - single expos STOT - repeated exp		None known Urinary Tract				
Aspiration hazard		No information available				
Symptoms / effects delayed	,both acute and	nd No information available				
Endocrine Disrupto	r Information	No information ava	ailable			
Other Adverse Effect	cts	The toxicological properties have not been fully investigated.				

12. Ecological information

Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment. May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system.

Persistence and Degradability May persist

Bioaccumulation/ Accumulation No information available.

Mobility

No information available.

13. Disposal considerations

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.

14. Transport information

DOT	
UN-No	UN1627
Proper Shipping Name	MERCUROUS NITRATE
Hazard Class	6.1
Packing Group	II
TDG	
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
IMDG/IMO	
UN-No	UN1627
Proper Shipping Name	MERCUROUS NITRATE
Hazard Class	6.1
Packing Group	II
	15. Regulatory information

United States of America Inventory

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
Mercury (I) nitrate	14836-60-3	-	-	-

Legend:

TSCA - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
Mercury (I) nitrate	14836-60-3	-	-	-	Х	-	Х	Х	-

U.S. Federal Regulations

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Mercury (I) nitrate	14836-60-3	<=100	1.0

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act)

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Mercury (I) nitrate	-	-	Х	-

Clean Air Act

Component H		HAPS Data	Class 1 Ozone	e Depletors	Class 2 Ozone Depletors	
Mercury (I) nitrate		Х			-	
OSHA - Occupational Safe Health Administration	ty and Not app	licable				
CERCLA	Not app	licable				
California Proposition 65	This pro	oduct contains the fo	llowing Proposition	65 chemicals.		
Component	CAS-No	California F	Prop. 65 P	rop 65 NSRL	Category	
Mercury (I) nitrate	14836-60-3	Developn	nental	-	Developmental	
J.S. State Right-to-Know Regulations						
Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island	
Mercury (I) nitrate	-	Х	Х	Х	-	
J.S. Department of Trans Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Polluta J.S. Department of Home Security	N N Ant N Iand This pro	oduct does not conta	in any DHS chemic	als.		
Other International Regul	ations					
Mexico - Grade No informa		mation available				
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		16. Other in	formation			

	www.alfa.com
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Revision Summary	SDS authoring systems update, replaces ChemGes SDS No. 14836-60-3/3.

Email: tech@alfa.com

Disclaimer

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End of SDS