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SAFETY DATA SHEET

Version 3.8 Revision Date 12/29/2015 Print Date 03/16/2016

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifiers

Product name Mercury(II) nitrate monohydrate

Product Number 83381 Sigma-Aldrich Brand Index-No. 080-002-00-6

CAS-No. : 7783-34-8

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

Identified uses : Laboratory chemicals, Synthesis of substances

Details of the supplier of the safety data sheet

Sigma-Aldrich Company

3050 Spruce Street

SAINT LOUIS MO 63103

USA

+1 800-325-5832 Telephone +1 800-325-5052

Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

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

Acute toxicity, Oral (Category 2), H300 Acute toxicity, Inhalation (Category 2), H330 Acute toxicity, Dermal (Category 1), H310

Specific target organ toxicity - repeated exposure (Category 2), H373

Acute aquatic toxicity (Category 1), H400 Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

GHS Label elements, including precautionary statements

Pictogram

Signal word Danger

Hazard statement(s)

H300 + H310 + H330 Fatal if swallowed, in contact with skin or if inhaled

H373 May cause damage to organs through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s) P260

Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

Do not get in eyes, on skin, or on clothing.

Wash skin thoroughly after handling.

P260 P262 P264 P264 Sigma-Aldrich - 83381

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P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing. Wear respiratory protection.

P284 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ P301 + P310 + P330

physician. Rinse mouth.

IF ON SKIN: Gently wash with plenty of soap and water. Immediately call P302 + P350 + P310

a POISON CENTER or doctor/ physician.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.

P314 Get medical advice/ attention if you feel unwell.

P362 Take off contaminated clothing and wash before reuse.

P391 Collect spillage.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/ container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

: Mercuric nitrate Synonyms

Formula : HgN2O6 · H2O Molecular weight 342.62 a/mol CAS-No. 7783-34-8 EC-No. 233-152-3 Index-No. 080-002-00-6

Component	Classification	Concentration
Mercury dinitrate monohydrate		
	Acute Tox. 2; Acute Tox.	
	STOT RE 2; Aquatic Acu	ite 1;
	Aquatic Chronic 1; H300	+
	H310 + H330, H373, H41	10

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of any immediate medical attention and special treatment needed

No data available

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sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

a) Appearance

Form: crystalline Colour: white

b) Odour

No data available No data available

c) Odour Threshold

d) pН No data available

Melting point/freezing point

g)

Melting point/range: 79 °C (174 °F) - lit.

Initial boiling point and

No data available

boiling range Flash point

Not applicable

h) Evaporation rate No data available

Flammability (solid, gas)

No data available

Upper/lower flammability or No data available

explosive limits

Vapour pressure No data available

Vapour density

No data available

Relative density

4.300 g/cm3

No data available

Water solubility Partition coefficient: n-

No data available

octanol/water

Auto-ignition

No data available

temperature

Decomposition

No data available

temperature

No data available Viscosity

s) Explosive properties

No data available

t) Oxidizing properties

No data available

Other safety information

No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions

Possibility of hazardous reactions 10.3

No data available

No data ava 10.4 Conditions Avoid moist Sigma-Aldrich - 83381 Conditions to avoid

Avoid moisture.

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In the event of fire: see section 5

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

Other decomposition products - No data available

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

No data available

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

IARC:

3 - Group 3: Not classifiable as to its carcinogenicity to humans (Mercury dinitrate

monohydrate)

NTP:

No component of this product present at levels greater than or equal to 0.1% is identified as a

known or anticipated carcinogen by NTP.

OSHA:

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

No data available

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

No data available

Additional Information

RTECS: OW8225000

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough, Shortness of breath, Headache, Nausea

Stomach - Irregularities - Based on Human Evidence

Stomach - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

12.1 Toxicity

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No data available

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