Safety Data Sheet

Mercury nitrate solution

Version: V2.0.0.1

Report No.: BWZ6050-2016-MSDS-US

Creation Date: 2025/10/20

Revision Date: -



*Prepared according to American OSHA HCS-2024 (29 CFR 1910.1200)

1	Identification
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| Product identifier

Product Name	Mercury nitrate solution
Cat No.	BWZ6050-2016
CAS No.	Not applicable
EC No.	Not applicable
Molecular Formula	Not applicable

Recommended use of the product and restrictions on use

Relevant identified uses	Please consult manufacturer.
Uses advised against	Please consult manufacturer.

Details of the supplier of the Safety Data Sheet

Name of the company	Weiyel Inc
Address of the company	Hedian Light Industrial Park, Chengguan Town, Shangcheng County, Xinyang
	City, Henan Province, China
Post code	465350
Telephone number	010-58103678
Fax number	010-84840368
E-mail address	info@weiyel.com

| Emergency phone number

Emergency phone number	010-58103678

2 Hazard(s) identification

Hazard classification according to 29 CFR 1910.1200

Acute Toxicity - Oral	Category 2
Acute Toxicity - Dermal	Category 2
Skin corrosion/irritation	Category 1
Sensitization - skin	Category 1
Serious eye damage/irritation	Category 1
Acute Toxicity - Inhalation	Category 1
Germ cell mutagenicity	Category 2
Reproductive toxicity	Category 2
Specific target organ toxicity -	Category 1
single exposure	

Specific	target organ toxicity -
	repeated exposure

Category 1

Label elements



| Hazard statements

Trainer of ottatornio	
H300	Fatal if swallowed
H310	Fatal in contact with skin
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H330	Fatal if inhaled
H341	Suspected of causing genetic defects
H361	Suspected of damaging fertility or the unborn child
H370	Causes damage to organs(kidneys)
H372	Causes damage to organs through prolonged or repeated exposure(central
	nervous system, kidneys)

| Precautionary statements

P302+P352

P304+P340

P361+P364

P301+P330+P331 P303+P361+P353

Prevention		
P201	Obtain special instructions before use.	
P202	Do not handle until all safety precautions have been read and understood.	
P260	Do not breathe gas/mist/vapour/spray.	
P262	Do not get in eyes, on skin, or on clothing.	
P264	Wash hands and other parts of the body (if related) thoroughly after handling.	
P270	Do not eat, drink or smoke when using this product.	
P271	Use only outdoors or with adequate ventilation.	
P272	Contaminated work clothing should not be allowed out of the workplace.	
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.	
P284	In case of inadequate ventilation wear respiratory protection.	
◆ Response		
P320	Specific treatment is urgent (see related instructions on the label).	
P321	Specific treatment (see related instructions on the label).	
P330	Rinse mouth.	
P363	Wash contaminated clothing before reuse.	

IF ON SKIN: Wash with plenty of water.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Take off immediately all contaminated clothing and wash it before reuse.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

	affected areas with water [or shower].	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
◆ Storage		
P405	P405 Store locked up.	
P403+P233	Store in a well-ventilated place. Keep container tightly closed.	
◆ Disposal		
P501	Dispose of contents/container in accordance with local/regional/national/	
	international regulations.	

Other hazards

Not applicable.

| Hazard description

Physical and chemical hazards

No information available

Health hazards

Inhaled	Cough. Sore throat. Burning sensation. Headache. Laboured breathing. Shortness of breath.		
Ingestion	Burning sensation. Abdominal pain. Diarrhoea. Nausea. Vomiting. Metallic taste.		
Skin Contact MAY BE ABSORBED! Redness. Pain. Skin burns. Blisters.			
Eye	Eye Redness. Pain. Blurred vision. Severe deep burns.		
◆ Environmental hazards			

Please refer to 12th chapter of SDS.

3 Composition/information on ingredients

Substance/mixture

Mixture

Component	CAS No.	EC No.	Concentration (wt, %)
Mercury dinitrate	10045-94-0	233-152-3	60.19
Nitric acid	7697-37-2	231-714-2	14.22
Water	7732-18-5	231-791-2	25.59

4 First-aid measures

Description of first aid measures

General advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Eye contact	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Skin contact	First rinse with plenty of water, then remove contaminated clothes and rinse again. Refer for medical attention.
Ingestion	Rinse mouth. Give a slurry of activated charcoal in water to drink. Induce vomiting (ONLY IN CONSCIOUS PERSONS!). Refer for medical attention.
Inhalation	Fresh air, rest. Half-upright position. Refer for medical attention.

	Dretection of first siders	Engure that modical personnel are guere of the substance in plant. Take
	Protecting of first-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.
Mos	st important symptoms/eff	
1		the human body, may occur and may cause some concern following repeated or
	long-term occupational expos	
Indi	cation of any immediate r	nedical attention and special treatment needed
1	Treat symptomatically.	•
2	Symptoms may be delayed.	
	, , , ,	
5	Fire-fighting measure	S
Exti	inguishing media	
Su	itable extinguishing media	Small fire: dry chemical, CO ₂ or water spray; Large fire: water spray, fog or
		regular foam; Fire involving tanks, rail tank cars or highway tanks: Fight fire from
		maximum distance or use unmanned master stream devices or monitor nozzles
		Cool containers with flooding quantities of water until well after fire is out. Do no
Incui	itable extinguishing media	get water inside containers. Large fire: avoid aiming straight or solid streams directly onto the product.
Jiisui	table extiliguishing illedia	Large life. avoid airling straight of solid streams directly onto the product.
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		m the substance or mixture
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Environmental precautions

- 1 Prevent further leakage or spillage if safe to do so.
- 2 Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

- 1 Do not touch or cross spills.
- 2 Cover with anti-solvent foam to reduce evaporation.

3	It is recommended that emergency personnel wear positive pressure self-contained breathing apparatus and wear anti-virus suits.
4	Spray water disperses the vapor and dilutes the liquid spill.
5	Do not touch broken containers and spills before putting on appropriate protective clothing.
6	Cut off the source of the leak as much as possible.
7	Keep leaks in a ventilated place.
8	Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
9	Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.
10	Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in

7 Handling and storage

container.

Precautions for safe handling

1	Handling is performed in a well ventilated place.
2	Wear suitable protective equipment.
3	Avoid contact with skin and eyes.
4	Keep away from heat/sparks/open flames/ hot surfaces.

Conditions for safe storage, including any incompatibilities

1	Keep containers tightly closed.
2	Keep containers in a dry, cool and well-ventilated place.
3	Keep away from heat/sparks/open flames/hot surfaces.

8 Exposure controls/personal protection

| Control parameters

◆Occupational exposure limit values

Component	Country/Region	Limit value - Eight hours		Limit value - Short term	
		ppm	mg/m³	ppm	mg/m³
Mercury dinitrate	Permissible exposure standards for workers in the workplace	-	0.05(as Hg)	-	0.15(as Hg)
	USA - ACGIH	-	0.025(as Hg)	-	-
	Finland	-	0.02	-	-
Nitric acid	Japan - JSOH(2024–202 5)	2	5.2	-	-
	Permissible exposure standards for workers in the workplace	2	5.2	4	10.4
	Australia	2	5.2	4	10
	Canada - Ontario	2	-	4	-
	European Union	-	-	1	2.6

New Zealand	2	5.2	4	10

| Engineering controls

- Ensure adequate ventilation, especially in confined areas.
- 2 Ensure that eyewash stations and safety showers are close to the workstation location.
- 3 Use explosion-proof electrical/ventilating/lighting/equipment.
- 4 Set up emergency exit and necessary risk-elimination area.

| Personal protection equipment

General requirement			
Eye protection	Must wear appropriate anti-corrosion goggles.		
Hand protection	Must wear acid and alkali resistant chemical protective gloves.		
Respiratory protection	Must wear appropriate personal dust proof gas mask.		
Skin and body protection	Must wear acid and alkali resistant chemical protective clothing.		

Physical and chemical properties and safety characteristics

| Physical and chemical properties

Appearance (physical state,	Colorless liquid
color, etc.)	·
Odor	No information available
Odor threshold	No information available
рН	No information available
Melting point/freezing point(°C)	79 (Mercury dinitrate)
Initial boiling point and boiling	>35
range(°C)	
Flash point(Closed cup,°C)	No information available
Evaporation rate	No information available
Flammability	No information available
Upper/lower explosive limits[%(v/v)]	Upper limit: No information available; Lower limit: No information available
Vapor pressure	No information available
Vapor density(Air = 1)	No information available
Relative density(Water=1)	4.4 (Mercury dinitrate)
Solubility	Very soluble in water (Mercury dinitrate)
n-octanol/water partition	No information available
coefficient	
Auto-ignition temperature(°C)	No information available
Decomposition temperature(°C)	No information available
Kinematic viscosity	No information available

10 Stability and reactivity

Stability and reactivity

Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.	
Chemical stability	Stable under proper operation and storage conditions.	
Possibility of hazardous reactions	Mixture with active metal powders may explode intensely if heated. In contact with active metals (alkali metals, Na, Ca etc.) causes a reaction and release hydrogen.	
Conditions to avoid	Incompatible materials, heat, flame and spark.	
Incompatible materials	Active metal powder, non-metal elemental powder, sulfide, metal amino compound, metal acetylene compound, phenols, metal sulfamate, metal cyanide, thiocyanate, phosphide, hypophosphite, carboxylic acid, carboxylic anhydride, Carboxylic acid esters, ethanol, reducing agents and performic acid. Alkali, sodium, calcium, and other active metal, halogen, metal oxide, nonmetal oxide, acyl halide and metal phosphide.	
Hazardous decomposition	Under normal conditions of storage and use, hazardous decomposition products	
products	should not be produced.	

11 Toxicological information

Acute toxicity

Component	LD ₅₀ (oral)	LD ₅₀ (dermal)	LC ₅₀ (inhalation,4h)
Mercury dinitrate	26mg/kg(Rat)	75mg/kg(Rat)	No information available

| Carcinogenicity

Component	List of carcinogens by the IARC Monographs	Report on Carcinogens by NTP	OSHA Carcinogen List
Mercury dinitrate	Category 3	Not Listed	Not Listed
Nitric acid	Not Listed	Not Listed	Not Listed
Water	Not Listed	Not Listed	Not Listed

Others

Mercury nitrate solution				
Skin corrosion/irritation	Causes severe skin burns and eye damage(Category 1)			
Serious eye damage/irritation	Causes serious eye damage(Category 1)			
Skin sensitization	May cause an allergic skin reaction(Category 1)			
Respiratory sensitization	Based on available data, the classification criteria are not met			
Reproductive toxicity	Suspected of damaging fertility or the unborn child(Category 2)			
STOT-single exposure	Causes damage to organs(kidneys)(Category 1)			
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure(central nervous system, kidneys)(Category 1)			
Aspiration hazard	Based on available data, the classification criteria are not met			
Germ cell mutagenicity	Suspected of causing genetic defects(Category 2)			

Ecological information

| Acute aquatic toxicity

Component	Fish	Crustaceans	Algae or other aquatic
			plants

Mercury dinitrate	LC ₅₀ : 0.172mg/L	No information available	No information available
	(96h)(Fish)		

| Chronic aquatic toxicity

Chronic aquatic toxicity No information available

| Persistence and degradability

Persistence and degradability No information available

Bioaccumulative potential

Bioaccumulative potential No information available

| Mobility in soil

Mobility in soil No information available

13 Disposal considerations

| Disposal considerations

Waste chemicals	Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.
Contaminated packaging	Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.
Disposal recommendations	Refer to section waste chemicals and contaminated packaging.

14 Transport information

Label and Mark

Transporting Label



IMDG-CODE

UN number	2024
UN proper shipping name	MERCURY COMPOUND, LIQUID, N.O.S.
Transport hazard class	6.1
Transport subsidiary hazard	None
class	
Packing group	п
Marine pollutant (Yes or no)	Yes

IATA-DGR

UN number	2024
UN proper shipping name	MERCURY COMPOUND, LIQUID, N.O.S.
Transport hazard class	6.1
Transport subsidiary hazard	None
class	
Packing group	п

UN-ADR

UN number	2024
UN proper shipping name	MERCURY COMPOUND, LIQUID, N.O.S.
Transport hazard class	6.1
Transport subsidiary hazard	None
class	
Packing group	П

Transport in bulk according to IMO instruments

◆ Transport in bulk according to Annex II of MARPOL and the IBC code

Not Available

◆ Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Not Available

Transport in bulk in accordance with the IGC Code

Not Available

Others

Precautions for transport

Transit should be anti-exposure, rain, high temperature. Strictly prohibited shipping or transportation with acids, alkalis, oxidants, food and food additives etc. Transport vehicles should be equipped with the appropriate variety and quantity of fire equipment and emergency equipment leakage during transport. Before transport, should be preceded by checking whether container integrity, sealing. The transport unit must be placarded and marked in accordance with relevant transporting requirements.

15 Regulatory information

International chemical inventory

Component	A	В	С	D	Е	F	G	Н	I	J	K	L	M
Mercury dinitrate	√	√	V	√	√	√	√	√	×	×	√	√	√
Nitric acid	√	√	√	√	√	√	√	√	√	√	√	√	√
Water	1	V	√										

- [A] China Inventory of Existing Chemical Substances(IECSC)
- [B] European Inventory of Existing Commercial Chemical Substances(EC inventory)
- [C] United States Toxic Substances Control Act Inventory(TSCA)
- [D] Canadian Domestic Substances List(DSL)
- [E] New Zealand Inventory of Chemicals(NZIoC)
- [F] Philippines Inventory of Chemicals and Chemical Substances(PICCS)
- [G] Korea Existing Chemicals Inventory(KECL)
- [H] Australian. Inventory of Industrial Chemical (AIICS)
- [1] Japan Inventory of Existing & New Chemical Substances(ENCS)
- [J] Thailand Existing Chemicals Inventory(TECI)
- [K] Mexico National Inventory of Chemical Substances (INSQ)
- [L] Russia Inventory of Existing Substances (DRAFT)
- [M] Inventory of Existing Chemical Substances in Taiwan, China (TCSI)

List of Chemical Substances under International Conventions

Component	Α	В	С

Mercury dinitrate	×	×	×
Nitric acid	×	×	×
Water	×	×	×

- [A] The Montreal Protocol on Substances that Deplete the Ozone Layer
- [B] Stockholm Convention on Persistent Organic Pollutants (POPs)
- [C] Rotterdam Convention on the prior informed consent procedure for certain hazardous chemicals and pesticides in international trade

US chemical inventory

Component	Α	В	С	D	E	F	G	Н
Mercury dinitrate	×	×	√	√	√	√	√	×
Nitric acid	×	√	√	√	√	√	√	×
Water	×	×	×	×	×	×	×	×

- [A] US Clean Air Act (CAA)- Section 112, Hazardous Air Pollutants
- [B] US SARA 302- Extremely Hazardous Substance List
- [C] US CERCLA- Hazardous Substances List
- [D] US Massachusetts Right-to-Know Substance List
- [E] US New Jersey Right to Know Hazardous Substance List
- [F] US Pennsylvania Right to Know Hazardous Substance List
- [G] US New York City Right-to-Know Hazardous Substance List
- [H] US California Proposition 65 List

Note:

- " $\sqrt{}$ " Indicates that the substance included in the regulations.
- "x" No data or not included in the regulations.

16 Other information

Information on revision

Creation Date	2025/10/20
Revision Date	-
Reason for revision	-

Reference

- [1] IPCS: The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home.
- [2] IARC, website: http://www.iarc.fr/.
- [3] OECD: The Global Portal to Information on Chemical Substances, website: https://www.echemportal.org/echemportal/.
- [4] CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple.
- [5] NLM: ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp.
- [6] EPA: Integrated Risk Information System, website: http://cfpub.epa.gov/iris/.
- [7] U.S. Department of Transportation: ERG, website: http://www.phmsa.dot.gov/hazmat/library/erg.
- [8] Germany GESTIS-database on hazard substance, website: http://gestis-en.itrust.de/.

Abbreviations and acronyms

CAS	Chemical Abstracts Service	UN	The United Nations
PC-STEL	Short term exposure limit	OECD	Organization for Economic Co-operation and Development
PC-TWA	Time Weighted Average	IMDG-	International Maritime Dangerous Goods CODE
		CODE	
MAC	Maximum Allowable Concentration	IARC	International Agency for Research on Cancer
DNEL	Derived No Effect Level	ICAO	International Civil Aviation Organization
PNEC	Predicted No Effect Concentration	IATA	International Air Transportation Association
NOEC	No Observed Effect Concentration	ACGIH	American Conference of Governmental Industrial Hygienists
LC ₅₀	Lethal Concentration 50%	NFPA	National Fire Protection Association

LD ₅₀ EC ₅₀	Lethal Dose 50% Effective Concentration 50%	NTP PBT	National Toxicology Program Persistent, Bioaccumulative, Toxic
EC _X	Effective Concentration X%	vPvB	very Persistent, very Bioaccumulative
Pow	Partition coefficient Octanol: Water	CMR	Carcinogens, mutagens or substances toxic to reproduction
BCF	Bioconcentration factor	RPE	RespiratoryProtective Equipment
ED	Endocrine disruptor	HCS	Hazard Communication Standard

Disclaimer

This Safety Data Sheet (SDS) was prepared according to OSHA HCS-2024. The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.