




DR. J. PHARMACHEM (INDIA)

MATERIAL SAFETY DATA SHEET	
1	IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1	Product identifiers
	Product Name Phenyl Mercury Nitrate
	CAS NO. 8003-05-2
1.2	Relevant identified uses of the substance or mixture and uses advised against
	Identified uses Laboratory chemicals, Manufacture of substances
1.3	Details of the supplier of the safety data sheet
	COMPANY DR. J. PHARMACHEM (INDIA)
	722/AB/15 'NIRMAL' ,LAXMI PARK COLONY,
	NAVI PETH , PUNE- 411 030.INDIA
	Telephone : 020-24530071
	Fax : 020-24530110
2	HAZARDS IDENTIFICATION
2.1	Classification of the substance or mixture
	Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]
	Acute toxicity, Oral (Category 3) Specific target organ toxicity - repeated exposure (Category 1) Skin corrosion (Category 1B) Acute aquatic toxicity (Category 1) Chronic aquatic toxicity (Category 1)
	Classification according to EU Directives 67/548/EEC or 1999/45/EC
	Toxic if swallowed. Toxic: danger of serious damage to health by prolonged exposure in contact with skin and if swallowed. Causes burns. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
2.2	Label elements
	Labelling according Regulation (EC) No 1272/2008 [CLP]
	Pictogram 
	Signal word Danger
	Hazard statement(s)
	H301 H314 H372 Toxic if swallowed. Causes severe skin burns and eye damage. Causes damage to organs through prolonged or repeated



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	H410	exposure. Very toxic to aquatic life with long lasting effects.
	Precautionary statement(s)	
	P273 P280 P301 + P310 P305 + P351 + P338 P310 P501	Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection. IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician. Dispose of contents/ container to an approved waste disposal plant.
	Supplemental Hazard Statements	none
According to European Directive 67/548/EEC as amended		
	Hazard symbol(s)	 
	R-phrase(s)	
	R25 R34 R48/24/25 R50/53	Toxic if swallowed. Causes burns. Toxic: danger of serious damage to health by prolonged exposure in contact with skin and if swallowed. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
	S-phrase(s)	
	S23 S24/25 S37 S45 S60 S61	Do not breathe gas/fumes/vapour/spray. Avoid contact with skin and eyes. Wear suitable gloves. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions/ Safety data sheets.
2.3	Other hazards	none
3	COMPOSITION/INFORMATION ON INGREDIENTS	
3.1	Substances	
	Synonyms	Mercury, hydroxyphenyl-, mixt. with Phenylmercuric nitrate ; Phenylmercuric nitrate
	Formula	C ₁₂ H ₁₁ Hg ₂ NO ₄
	Molecular Weight	634.4 g/mol
	Component	Concentration



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	Phenyl mercury nitrate	Min 99%
	Other unknown impurities	Up to 1%
4	FIRST AID MEASURES	
4.1	Description of first aid measures	
	General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
	If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
	In case of skin contact	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician
	In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
	If swallowed	Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
4.2	Most important symptoms and effects, both acute and delayed	
	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.	
4.3	Indication of any immediate medical attention and special treatment needed	
	No data available	
5	FIREFIGHTING MEASURES	
5.1	Extinguishing media	
	Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
5.2	Special hazards arising from the substance or mixture	Carbon oxides, nitrogen oxides (NO _x), Mercury/mercury oxides.
5.3	Advice for firefighters	Wear self contained breathing apparatus for firefighting if necessary.
5.4	Further information	No data available
6	ACCIDENTAL RELEASE MEASURES	
6.1	Personal precautions, protective equipment and emergency procedures	
	Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.	
6.2	Environmental precautions	
	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.	
6.3	Methods and materials for containment and cleaning up	
	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.	
6.4	Reference to other sections	
	For disposal see section 13.	
7	HANDLING AND STORAGE	
7.1	Precautions for safe handling	
	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.	



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7.2	Conditions for safe storage, including any incompatibilities	
	Store in cool place. Keep container tightly closed in a dry and well-ventilated place.	
7.3	Specific end uses	
	no data available	
8	EXPOSURE CONTROLS/PERSONAL PROTECTION	
8.1	Control parameters	
	Components with workplace control parameters	
8.2	Exposure controls	
	Appropriate engineering controls	
	Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.	
	Personal protective equipment	
	Eye/face protection	
	Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).	
	Skin protection	
	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.	
	Body Protection	
	Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace	
	Respiratory protection	
	Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the 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).	
9	PHYSICAL AND CHEMICAL PROPERTIES	
9.1	Information on basic physical and chemical properties	
a)	Appearance	Form : Powder Colour :White to off white
b)	Odour	Odourless
c)	Odour Threshold	Odourless
d)	pH	no data available
e)	Melting point/freezing point	175-185°C
f)	Initial boiling point and boiling range	No data available
g)	Flash point	No data available
h)	Enthalpy of Vaporization	No data available
i)	Index of Refraction	No data available
j)	Molar Refractivity	No data available
k)	Vapour pressure	No data available
l)	Density	No data available
m)	Oxidizing properties	No data available
n)	Solubility	Slightly soluble in alcohol, very slightly soluble in



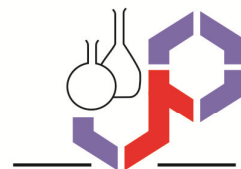
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		water, almost insoluble in ether can be slowly dissolved in glycerol.
o)	Partition coefficient: noctanol/water	No data available
p)	Polarizability	No data available
q)	Decomposition temperature	No data available
r)	Molar Volume	No data available
s)	Surface Tension	No data available
9.2	Other safety information	
	IUPAC Name	Hydroxy-phenyl-mercury; nitrooxy-phenyl-mercury
	Molecular Formula	C ₁₂ H ₁₁ Hg ₂ NO ₄
	Molecular Weight	634.4
	SMILES	O[Hg]c1ccccc1.[O][N+](=O)O[Hg]c1ccccc1
	InChI	InChI=1/2C6H5.2Hg.NO3.H2O/c2*1-2-4-6-5-3-1;;;2-1(3)4;/h2*1-5H;;;1H2/q;;;-1;/r2C6H5Hg.NO3.H2O/c2*7-6-4-2-1-3-5-6;2-1(3)4;/h2*1-5H;;1H2/q;;-1;
	EINECS	200-242-9
10	STABILITY AND REACTIVITY	
10.1	Reactivity	no data available
10.2	Chemical stability	no data available
10.3	Possibility of hazardous reactions	no data available
10.4	Conditions to avoid	no data available
10.5	Incompatible materials	Strong acids
10.6	Hazardous decomposition products	Other decomposition products - no data available
11	TOXICOLOGICAL INFORMATION	
11.1	Information on toxicological effects	
	Acute toxicity	LD50 Subcutaneous - rat - 56 mg/kg
	Skin corrosion/irritation	no data available
	Serious eye damage/eye irritation	no data available
	Respiratory or skin sensitization	no data available
	Germ cell mutagenicity	no data available
	Carcinogenicity	IARC :No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
	Reproductive toxicity	no data available
	Specific target organ toxicity - single exposure	no data available
	Specific target organ toxicity - repeated exposure	Causes damage to organs through prolonged or repeated exposure.
	Aspiration hazard	no data available
	Potential health effects	
	Inhalation	Toxic if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper



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		respiratory tract.	
	Ingestion	Toxic if swallowed. Causes burns.	
	Skin	Toxic if absorbed through skin. Causes skin burns.	
	Eyes	Causes eye burns.	
	Additional Information		
	RTECS	OW8400000	
12	ECOLOGICAL INFORMATION		
12.1	Toxicity	no data available	
12.2	Persistence and degradability	no data available	
12.3	Bioaccumulative potential	no data available	
12.4	Mobility in soil	no data available	
12.5	Results of PBT and vPvB assessment	no data available	
12.6	Other adverse effects	Very toxic to aquatic life.	
13	DISPOSAL CONSIDERATIONS		
13.1	Waste treatment methods		
	Product		
	Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.		
	Contaminated packaging		
	Dispose of as unused product.		
14	TRANSPORT INFORMATION		
14.1	UN number		
	ADR/RID	IMDG	IATA
	1895	1895	1895
14.2	UN proper shipping name		
	ADR/RID	IMDG	IATA
	PHENYLMERCURIC NITRATE	PHENYLMERCURIC NITRATE	Phenyl mercuric nitrate
14.3	Transport hazard class(es)		
	ADR/RID	IMDG	IATA
	6.1	6.1	6.1
14.4	Packaging group		
	ADR/RID	IMDG	IATA
	II	II	II
14.5	Environmental hazards		
	ADR/RID	IMDG Marine pollutant	IATA
	yes	yes	no
14.6	Special precautions for user		
	no data available		
15	REGULATORY INFORMATION		
	This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.		
15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture		
	no data available		
15.2	Chemical Safety Assessment		
	no data available		
16	OTHER INFORMATION		



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	Further information
	<p>The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Dr J Pharmachem (India) and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.jpharmachem.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.</p> <p>Month of creation :- October 2013 Month of revision :- October 2016</p>