



MATERIAL SAFETY DATA SHEET

Silver nitrate solution (0.1N)

SECTION 1: Identification of the substance/mixture and of the company/undertaking			
1.1	Product identifiers		
	Product name	:	Silver nitrate solution (0.1N)
	Brand	:	LABORT
	CAS-No.	:	7761-88-8
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		
	LABORT FINE CHEM PVT LTD. 703-704 ICON BUSINESS CENTRE, OPP. CENTRAL MALL, NR. VALENTINE CINEMA, DUMAS ROAD, SURAT - 395007, (GUJARAT), INDIA. PH: 0091-261-2725761; 2725388 FAX: 0091-261-2725388 E MAIL: info@laboratorychemical.net WEBSITE: www.laboratorychemical.net		
1.4	Emergency telephone number		
	Emergency Phone #	:	091-261-2725388
SECTION 2: Hazards identification			
2.1	Classification of the substance or mixture		
	Classification according to Regulation (EC) No 1272/2008 Corrosive to metals (Category 1), H290 Skin irritation (Category 2), H315 Eye irritation (Category 2), H319 Short-term (acute) aquatic hazard (Category 1), H400 Long-term (chronic) aquatic hazard (Category 1), H410		
2.2	Label elements		
	Labelling according Regulation (EC) No 1272/2008		
	Pictogram	:	
	Signal word	:	Warning
	Hazard statement(s)		
	H290 May be corrosive to metals. H315 Causes skin irritation.		

	H319 Causes serious eye irritation. H410 Very toxic to aquatic life with long lasting effects.		
	Precautionary statement(s)		
	P273 Avoid release to the environment. P302 + P352 IF ON SKIN: Wash with plenty of water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
	Supplemental Hazard statements		
	none		
2.3	Other hazards		
	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.		
SECTION 3: Composition/information on ingredients			
3.1	Substances		
	Formula	:	AgNO3
	Molecular weight	:	169,87 g/mol
	Component	Classification	Concentration
	Silver nitrate CAS-No. EC-No. Index-No. 7761-88-8 231-853-9 047-001-00-2	Ox. Sol. 2; Met. Corr. 1; Skin Corr. 1B; Aquatic Acute 1; Aquatic Chronic 1; H272, H290, H314, H400, H410 Concentration limits: >= 1 %: Met. corr. H290; M-Factor - Aquatic Acute: 1.000 - Aquatic Chronic: 100	>= 2,5 - < 3 %
SECTION 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 Wash off with soap and plenty of water. 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 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 The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11		
4.3	Indication of any immediate medical attention and special treatment needed No data available		
SECTION 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 Nitrogen oxides (NO _x), Silver/silver oxides
5.3	Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.
5.4	Further information No data available
SECTION 6: Accidental release measures	
6.1	Personal precautions, protective equipment and emergency procedures Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. For personal protection see section 8.
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 Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.
6.4	Reference to other sections For disposal see section 13.
SECTION 7: Handling and storage	
7.1	Precautions for safe handling Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. For precautions see section 2.2.
7.2	Conditions for safe storage, including any incompatibilities Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in cool place. Light sensitive. Store under inert gas. Recommended storage temperature: 15 - 25°C
7.3	Specific end use(s) Apart from the uses mentioned in section 1.2 no other specific uses are stipulated
SECTION 8: Exposure controls/personal protection	
8.1	Control parameters
	Components with workplace control parameters
8.2	Exposure control
	Appropriate engineering controls Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
	Personal protective equipment.
	Eye/face protection Safety glasses with side-shields conforming to EN166 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 Regulation (EU) 2016/425 and the standard EN 374 derived from it. Full contact

Material: Nitrile rubber
Minimum layer thickness: 0,11 mm
Break through time: 480 min

Splash contact

Material: Nitrile rubber
Minimum layer thickness: 0,11 mm
Break through time: 480 min

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 fullface respirator with multi-purpose combination (US) or type ABEK (EN 14387) 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).

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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

	Appearance Form	Form: liquid
	Odour	No data available
	Odour Threshold	No data available
	pH	No data available
	Melting point/freezing point	No data available
	Initial boiling point and boiling range	No data available
	Flash point	No data available
	Evaporation rate	No data available
	Flammability (solid, gas)	No data available
	Upper/lower flammability or explosive limits	No data available
	Vapour pressure	No data available
	Vapour density	No data available
	Relative density	No data available
	Water solubility	No data available
	Partition coefficient: octanol/water	No data available
	Auto-ignition temperature	No data available
	Decomposition temperature	No data available

	Viscosity	No data available
	Explosive properties	No data available
	Oxidizing properties	No data available
9.2	Other safety information	No data available
SECTION 10: Stability and reactivity		
10.1	Reactivity No data available	
10.2	Chemical stability Stable under recommended storage conditions.	
10.3	Possibility of hazardous reactions No data available	
10.4	Conditions to avoid Light.	
10.5	Incompatible materials Magnesium, Strong bases, Strong reducing agents	
10.6	Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Nitrogen oxides (NOx), Silver/silver oxides Other decomposition products - No data available In the event of fire: see section 5	
SECTION 11: Toxicological information		
11.1	Information on toxicological effects Acute toxicity 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: 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 No data available Aspiration hazard No data available Additional Information	

	RTECS: Not available		
	Absorption into the body leads to the formation of methemoglobin which in sufficient concentration causes cyanosis. Onset may be delayed 2 to 4 hours or longer.		
SECTION 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 This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.		
12.6	Other adverse effects Very toxic to aquatic life with long lasting effects.		
SECTION 13: Disposal considerations			
13.1	Waste treatment methods		
	Product Offer surplus and non-recyclable solutions to a licensed disposal company. Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself. Contaminated packaging Dispose of as unused product.		
SECTION 14: Transport information			
14.1	UN number		
	ADR/RID: 3082	IMDG: 3082	IATA: 3082
14.2	UN proper shipping name		
	ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Silver nitrate) IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Silver nitrate) IATA: Environmentally hazardous substance, liquid, n.o.s. (Silver nitrate)		
14.3	Transport hazard class(es)		
	ADR/RID: 9	IMDG: 9	IATA: 9
14.4	Packaging group		
	ADR/RID: III	IMDG: III	IATA: III
14.5	Environmental hazards		
	ADR/RID: yes	IMDG Marine pollutant: yes	IATA: yes
14.6	Special precautions for user Further information EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.		
SECTION 15: Regulatory information			

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)
15.2	Chemical safety assessment For this product a chemical safety assessment was not carried out
SECTION 16: Other information	
	Further information LABORT FINE CHEM PVT LTD. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. LABORT FINE CHEM PVT LTD. Makes no representations or warranties, either express or implied, including without limitation any warranties or merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, LABORT FINE CHEM PVT LTD. will not be responsible for damages resulting from use of or reliance upon this information. Revised on: 09/07/20 Revision: 01