

LPD100A Physical Developer Part A Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 1: Identification	
1.1. Identification	
Product form	: Mixture
Product name	: LPD100A Physical Developer Part A
Product code	: LPD100A
1.2. Relevant identified uses of the subs	tance or mixture and uses advised against
Use of the substance/mixture	: Latent fingerprint developer
1.3. Details of the supplier of the safety of	
SIRCHIE	
100 Hunter Place Youngsville, NC 27596 - USA T 919-554-2244; 800-356-7311 - F 919-554-2266 http://www.sirchie.com	6; 800-899-8181
1.4. Emergency telephone number	
Emergency number	: 1.800.424.9300
5	CHEMTREC: 1.800.424.9300
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or m	
GHS-US classification	
Skin corrosion/irritation Category 1B H314	
Full text of H statements : see section 16	
2.2. Label elements GHS-US labeling	
Hazard pictograms (GHS-US)	GHS05
Signal word (GHS-US)	: Danger
Contains	: silver nitrate
Hazard statements (GHS-US)	: H314 - Causes severe skin burns and eye damage
Precautionary statements (GHS-US)	 P260 - Do not breathe dust/fume/gas/mist/vapors/spray P264 - Wash hands, exposed skin thoroughly after handling P280 - Wear eye protection, protective gloves P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P310 - Immediately call a poison center/doctor/ P321 - Specific treatment (see Contact a physician on this label) P363 - Wash contaminated clothing before reuse P405 - Store locked up P501 - Dispose of contents/container to local, regional/international regulationsl
2.3. Other hazards	
No additional information available	
2.4. Unknown acute toxicity (GHS US)	
Not applicable	
SECTION 3: Composition/Informatio	n on ingredients
3.1. Substance	
Not applicable	
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3.2. Mixture			
Name	Product identifier	%	GHS-US classification
AQUA	(CAS No) 7732-18-5	80	Not classified
silver nitrate	(CAS No) 7761-88-8	20	Ox. Sol. 2, H272 Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-phrases: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	\$
First-aid measures general	 Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Allow victim to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
4.2. Most important symptoms and e	ffects, both acute and delayed
Symptoms/injuries	: Not expected to present a significant hazard under anticipated conditions of normal use.
4.3. Indication of any immediate med	lical attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measure	S
5.1. Extinguishing media	
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the	substance or mixture
Reactivity	: No data available.
5.3. Advice for firefighters	
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release m	easures
6.1. Personal precautions, protective	e equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	
Prevent entry to sewers and public waters. N	lotify authorities if liquid enters sewers or public waters.
6.3. Methods and material for contain	nment and cleaning up
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
6.4. Reference to other sections	
See Heading 8. Exposure controls and perso	onal protection.
SECTION 7: Handling and storage	e
7.1. Precautions for safe handling	
Precautions for safe handling	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

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7.2. Condi	.2. Conditions for safe storage, including any incompatibilities		
Storage condition	ns		Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.
Incompatible pro	ducts	:	Strong bases. Strong acids.
Incompatible ma	terials	:	Sources of ignition. Direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters				
LPD100A Physical Developer Part A				
ACGIH	ACGIH TWA (mg/m ³)	0.01 mg/m ³		
OSHA OSHA PEL (TWA) (mg/m³) 0.01 mg/m³				
silver nitrate (7761-88-8)				
ACGIH ACGIH TWA (mg/m³)		0.01 mg/m ³ (Silver Soluble compounds, as Ag; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)		
OSHA OSHA PEL (TWA) (mg/m³) 0.01 mg/m³		0.01 mg/m ³		
AQUA (7732-18-5)				
Not applicable				

8.2. **Exposure controls**

Personal protective equipment

: Safety glasses. Gloves. Dust/aerosol mask. Avoid all unnecessary exposure.



or smoke during use.

Hand protection	: Wear protective gloves.
Eye protection	: Chemical goggles or safety glasses.
Respiratory protection	: Wear appropriate mask.
Other information	: Do not eat, drink or smoke during use

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties 9.1.

Physical state	: Liquid
Appearance	: Liquid.
Color	: Colorless Colorless
Odor	: odorless characteristic
Odor threshold	: No data available
рН	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available

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Solubility	 Soluble in water. Water: Solubility in water of component(s) of the mixture : silver nitrate: 144 g/100ml 	
Log Pow	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Viscosity	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
9.2. Other information		
No additional information available		
SECTION 10: Stability and reactive	vity	
10.1. Reactivity		
No data available.		
10.2. Chemical stability		
Stable under normal conditions. Not established.		
10.3. Possibility of hazardous reaction	ns	
Not established.		
10.4. Conditions to avoid		
Direct sunlight. Extremely high or low temper	aratures.	
10.5. Incompatible materials		
Strong acids. Strong bases.		
10.6. Hazardous decomposition products		
fume. Carbon monoxide. Carbon dioxide.		

SECTI	IN 11: Toxicological information
11.1.	Information on toxicological effects

Acute toxicity

: Not classified

silver nitrate (7761-88-8)	
LD50 oral rat	1173 mg/kg (Rat)
ATE US (oral)	1173.000 mg/kg body weight
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
	Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
	Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

SECTIO	DN 12: Ecological information
12.1.	Toxicity

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silver nitrate (7761-88-8)		
	EC50 Daphnia 1	0.0006 mg/l (EC50; 48 h)
	LC50 fish 2	0.006 mg/l (LC50; 96 h; Salmo gairdneri)

12.2. Persistence and degradability	
LPD100A Physical Developer Part A	
Persistence and degradability	Not established.
silver nitrate (7761-88-8)	
Persistence and degradability	Biodegradability: not applicable.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable

12.3. Bioaccumulative potential	
LPD100A Physical Developer Part A	
Bioaccumulative potential	Not established.
silver nitrate (7761-88-8)	
BCF fish 1	11 - 19 (BCF)
BCF fish 2	15 - 150 (BCF)
Log Pow	0.19 (Estimated value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects	
Effect on the global warming	: No known ecological damage caused by this product.
Other information	: Avoid release to the environment.
SECTION 13: Disposal considerations	

13.1. Waste treatment methods	
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT) In accordance with DOT Transport document description	: UN3139 Silver nitrate solution (OXIDIZER), 5.1, II
UN-No.(DOT) Proper Shipping Name (DOT)	: UN3139 : Silver nitrate solution OXIDIZER
Class (DOT) Hazard labels (DOT)	: 5.1 - Class 5.1 - Oxidizer 49 CFR 173.128 : 6.1 - Poison 5.1 - Oxidizer
Packing group (DOT) Other information	 5.1 5.1 II - Medium Danger No supplementary information available.

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TDG

No additional information available

Transport by sea

No additional information available

Air transport

UN-No. (IATA) Proper Shipping Name (IATA) Class (IATA) Packing group (IATA)

- : UN3139
- : Oxidizing liquid, n.o.s (Silver nitrate solution)
- : 5.1 Oxidizing Substances
- : II Medium Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

LPD100A Physical Developer Part A

Subject to reporting requirements of United States SARA Section 313

15.2. International regulations

CANADA

No additional information available

EU-Regulations No additional information available

National regulations

No additional information available

15.3. US State regulations

No additional information available

SECTION 16: Other information	
Data sources	REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
Training advice	: Normal use of this product shall imply use in accordance with the instructions on the packaging.
Other information	: None.

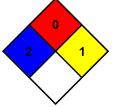
Full text of H-phrases:

NF

H272	May intensify fire; oxidizer
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
FPA health hazard	: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt

some release of energy, but not violently.

	medical attention is given.
NFPA fire hazard	: 0 - Materials that will not burn.
NFPA reactivity	 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with



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HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 0 Minimal Hazard - Materials that will not burn
Physical	: 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.
Personal Protection	: H
	H - Splash goggles, Gloves, Synthetic apron, Vapor respirator

SDS US (GHS HazCom 2012)

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, expressed or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes.