



# SAFETY DATA SHEET

## ROHM AND HAAS ELECTRONIC MATERIALS LLC

**Product name: SOLDERON™ BP LA-100 LEAD  
CONCENTRATE**

**Issue Date: 07/27/2023**

**Print Date: 08/01/2023**

ROHM AND HAAS ELECTRONIC MATERIALS LLC encourages and expects you to read and understand the entire (M)SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

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## 1. IDENTIFICATION

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**Product name: SOLDERON™ BP LA-100 LEAD CONCENTRATE**

### **Recommended use of the chemical and restrictions on use**

**Identified uses:** For industrial use: use in metal plating in circuit boards, connectors and metal finishing

**Uses advised against:** We recommend that you use this product in a manner consistent with the listed use. If your intended use is not consistent with the stated use, please contact your sales or technical service representative.

### **COMPANY IDENTIFICATION**

ROHM AND HAAS ELECTRONIC MATERIALS LLC  
455 FOREST STREET  
MARLBOROUGH MA 01752  
UNITED STATES

**Customer Information Number:**

833-338-7668  
SDSQuestion-NA@dupont.com

### **EMERGENCY TELEPHONE NUMBER**

**24-Hour Emergency Contact: 1-800-424-9300**

**Local Emergency Contact: 800-424-9300**

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## 2. HAZARDS IDENTIFICATION

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### **Hazard classification**

GHS classification in accordance with 29 CFR 1910.1200

Skin corrosion - Category 1B

Serious eye damage - Category 1

Reproductive toxicity - Category 1A

Specific target organ toxicity - repeated exposure - Category 2

Short-term (acute) aquatic hazard - Category 1

Long-term (chronic) aquatic hazard - Category 1

### **Label elements**

**Hazard pictograms**



Signal word: **DANGER!**

**Hazards**

Causes severe skin burns and eye damage.  
May damage fertility or the unborn child.  
May cause damage to organs (Central nervous system) through prolonged or repeated exposure.  
Very toxic to aquatic life with long lasting effects.

**Precautionary statements**

**Prevention**

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Do not breathe mist or vapours.  
Wash skin thoroughly after handling.  
Avoid release to the environment.  
Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response**

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.  
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/ doctor.  
IF exposed or concerned: Get medical advice/ attention.  
Wash contaminated clothing before reuse.  
Collect spillage.

**Storage**

Store locked up.

**Disposal**

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

**Other hazards**

No data available

**Further information**

The values listed below represent the percentages of ingredients of unknown toxicity.  
The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 56.891 %

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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

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**Chemical nature:** Aqueous solution of organic compounds

This product is a mixture.

<b>Component</b>	<b>CASRN</b>	<b>Concentration</b>
Water	7732-18-5	40.0 - 50.0 %
Lead(II) methanesulphonate	17570-76-2	50.0 - 60.0 %

*Note*

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

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## 4. FIRST AID MEASURES

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### Description of first aid measures

#### General advice:

If potential for exposure exists refer to Section 8 for specific personal protective equipment. First Aid responders should pay attention to self-protection and use the recommended protective clothing

**Inhalation:** Remove from exposure. If there is difficulty in breathing, give oxygen. Seek medical attention if symptoms persist.

**Skin contact:** Wash skin with water. Continue washing for at least 15 minutes. Obtain medical attention if blistering occurs or redness persists.

**Eye contact:** Immediately flush the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.

**Ingestion:** Wash out mouth with water. Have victim drink 1-3 glasses of water to dilute stomach contents. Immediate medical attention is required. Never administer anything by mouth if a victim is losing consciousness, is unconscious or is convulsing.

#### Most important symptoms and effects, both acute and delayed:

Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

#### Indication of any immediate medical attention and special treatment needed

**Notes to physician:** Treat symptomatically.

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## 5. FIREFIGHTING MEASURES

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**Suitable extinguishing media:** Not readily combustible. Select extinguishing agent appropriate to other materials involved.

**Unsuitable extinguishing media:** None known.

**Special hazards arising from the substance or mixture**

**Hazardous combustion products:** Hazardous combustion by-products may include but are not limited to carbon dioxide and carbon monoxide.

**Unusual Fire and Explosion Hazards:** No specific measures necessary.

**Advice for firefighters**

**Fire Fighting Procedures:** Keep people away. Isolate fire and deny unnecessary entry.

**Special protective equipment for firefighters:** Wear full protective clothing and self-contained breathing apparatus.

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**6. ACCIDENTAL RELEASE MEASURES**

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**Personal precautions, protective equipment and emergency procedures:** Wear suitable protective clothing. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

**Environmental precautions:** Prevent the material from entering drains or water courses. Do not discharge directly to a water source. Advise Authorities if spillage has entered watercourse or sewer or has contaminated soil or vegetation.

**Methods and materials for containment and cleaning up:** Soak up with inert absorbent material and dispose of as hazardous waste. See Section 13, Disposal Considerations, for additional information.

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**7. HANDLING AND STORAGE**

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**Precautions for safe handling:** Use only in well-ventilated areas. Avoid breathing vapor. Avoid contact with eyes, skin and clothing. Keep container tightly closed.

**Conditions for safe storage:** Store in original container. Storage area should be: cool dry well ventilated out of direct sunlight away from incompatible materials  
No special precautions necessary.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**Control parameters**

If exposure limits exist, they are listed below. If no exposure limits are displayed, then no values are applicable.

Component	Regulation	Type of listing	Value
Lead(II) methanesulphonate	NIOSH REL	TWA	0.05 mg/m3 , Lead
	Further information: See Appendix C		
	ACGIH	TWA	0.05 mg/m3 , Lead
	Further information: CNS impair: Central Nervous System impairment; hematologic eff: Hematologic effects; PNS impair: Peripheral Nervous System impairment; BEI: Substances for which there is a Biological Exposure Index or Indices (see BEI® section); A3: Confirmed animal carcinogen with unknown relevance to humans; varies: varies		

**Exposure controls**

**Engineering measures:** Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (local exhaust), and control of process conditions.

**Individual protection measures**

**Eye/face protection:** Chemical goggles or safety glasses

**Skin protection**

**Hand protection:** Neoprene gloves. Other chemical resistant gloves may be recommended by your safety professional.

**Other protection:** Normal work wear.

**Respiratory protection:** No personal respiratory protective equipment normally required. The specific respirator selected must be based on the airborne concentration found in the workplace and must not exceed the working limits of the respirator.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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**Appearance**

Physical state	liquid
Color	Clear to hazy
Odor	slight
Odor Threshold	No data available
pH	<3.5
Melting point/range	No data available
Freezing point	No data available
Boiling point (760 mmHg)	>100 °C ( 212 °F)
Flash point	Not applicable
Evaporation Rate (Butyl Acetate = 1)	Slower than ether
Flammability (solid, gas)	Not Applicable
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Vapor Pressure	Similar to water
Relative Vapor Density (air = 1)	Heavier than air.
Relative Density (water = 1)	ca.1.65
Water solubility	completely soluble
Partition coefficient: n-octanol/water	This product is a mixture. See Section 12 for individual component data.
Auto-ignition temperature	No data available
Decomposition temperature	Temperatures greater than recommended storage temperature.
Kinematic Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

**Molecular weight** No data available for mixture  
**Volatile Organic Compounds** 0.00 g/L

NOTE: The physical data presented above are typical values and should not be construed as a specification.

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## 10. STABILITY AND REACTIVITY

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**Reactivity:** Not classified as a reactivity hazard.

**Chemical stability:** Stable under normal conditions.

**Possibility of hazardous reactions:** No dangerous reaction known under conditions of normal use. Product will not undergo hazardous polymerization.

**Conditions to avoid:** contact with incompatible materials High temperatures

**Incompatible materials:** Cyanides sulfides Strong oxidizing agents steel Metals Bases

**Hazardous decomposition products:** oxides of carbon oxides of sulfur lead fumes Ketones Aldehydes CONTACT WITH METALS MAY EVOLVE FLAMMABLE HYDROGEN GAS.

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## 11. TOXICOLOGICAL INFORMATION

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*Toxicological information appears in this section when such data is available.*

### Acute toxicity

#### Acute oral toxicity

Product test data not available. Refer to component data.

#### Acute dermal toxicity

Product test data not available. Refer to component data.

#### Acute inhalation toxicity

Product test data not available. Refer to component data.

### Skin corrosion/irritation

Product test data not available. Refer to component data.

### Serious eye damage/eye irritation

Product test data not available. Refer to component data.

### Sensitization

Product test data not available. Refer to component data.

### Specific Target Organ Systemic Toxicity (Single Exposure)

Product test data not available. Refer to component data.

**Specific Target Organ Systemic Toxicity (Repeated Exposure)**

Product test data not available. Refer to component data.

**Carcinogenicity**

Product test data not available. Refer to component data.

**Teratogenicity**

Product test data not available. Refer to component data.

**Reproductive toxicity**

Product test data not available. Refer to component data.

**Mutagenicity**

Product test data not available. Refer to component data.

**Aspiration Hazard**

Product test data not available. Refer to component data.

**COMPONENTS INFLUENCING TOXICOLOGY:**

**Lead(II) methanesulphonate**

**Acute oral toxicity**

Single dose oral LD50 has not been determined.

**Acute dermal toxicity**

The dermal LD50 has not been determined.

**Acute inhalation toxicity**

The LC50 has not been determined.

**Skin corrosion/irritation**

Brief contact may cause skin burns. Symptoms may include pain, severe local redness and tissue damage.

Information given is based on data obtained from similar substances.

**Serious eye damage/eye irritation**

May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness. Chemical burns may occur.

Information given is based on data obtained from similar substances.

**Specific Target Organ Systemic Toxicity (Repeated Exposure)**

The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

Target Organs: Central nervous system

**Teratogenicity**

Has caused birth defects in laboratory animals. Information given is based on data obtained from similar substances.

**Reproductive toxicity**

In animal studies, has been shown to interfere with reproduction. Information given is based on data obtained from similar substances.

**Aspiration Hazard**

No aspiration toxicity classification

### Carcinogenicity

Component	List	Classification
Lead(II) methanesulphonate	IARC	Group 2A: Probably carcinogenic to humans
	US NTP	Reasonably anticipated to be a human carcinogen
	ACGIH	A3: Confirmed animal carcinogen with unknown relevance to humans.

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## 12. ECOLOGICAL INFORMATION

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*Ecotoxicological information appears in this section when such data is available.*

### Toxicity

#### Lead(II) methanesulphonate

##### **Acute toxicity to fish**

Information given is based on data obtained from similar substances.  
LC50, Oncorhynchus mykiss (rainbow trout), 96 Hour, 0.34 mg/l

##### **Acute toxicity to aquatic invertebrates**

Information given is based on data obtained from similar substances.  
EC50, Daphnia (water flea), 48 Hour, > 1 mg/l

##### **Acute toxicity to algae/aquatic plants**

Information given is based on data obtained from similar substances.  
EC50, Desmodesmus subspicatus (green algae), 72 Hour, 24 mg/l  
Information given is based on data obtained from similar substances.  
NOEC, Desmodesmus subspicatus (green algae), 72 Hour, 0.071 mg/l

### Persistence and degradability

#### Lead(II) methanesulphonate

**Biodegradability:** Not readily biodegradable. Information given is based on data obtained from similar substances.

**Biodegradation:** 0 %

**Exposure time:** 28 d

### Bioaccumulative potential

#### Lead(II) methanesulphonate

**Bioaccumulation:** Bioaccumulation is unlikely. Information given is based on data obtained from similar substances.

### Mobility in soil

No data available.



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### 13. DISPOSAL CONSIDERATIONS

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**Disposal methods:** Dispose in accordance with all local, state (provincial), and federal regulations. Under RCRA, it is the responsibility of the product's user to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because the product uses, transformations, mixtures, processes, etc. may render the resulting materials hazardous.

**Treatment and disposal methods of used packaging:** Empty containers retain product residues. Follow label warnings even after container is emptied. Improper disposal or reuse of this container may be dangerous and illegal. Refer to applicable federal, state and local regulations.

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### 14. TRANSPORT INFORMATION

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#### DOT

<b>Proper shipping name</b>	Corrosive liquid, acidic, organic, n.o.s.(Lead(II)methanesulphonate)
<b>UN number</b>	UN 3265
<b>Class</b>	8
<b>Packing group</b>	II
<b>Marine pollutant</b>	Lead compound

#### Classification for SEA transport (IMO-IMDG):

<b>Proper shipping name</b>	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.(Lead(II)methanesulphonate)
<b>UN number</b>	UN 3265
<b>Class</b>	8
<b>Packing group</b>	II
<b>Marine pollutant</b>	Lead(II)methanesulphonate
<b>Transport in bulk according to Annex I or II of MARPOL 73/78 and the IBC or IGC Code</b>	Consult IMO regulations before transporting ocean bulk

#### Classification for AIR transport (IATA/ICAO):

<b>Proper shipping name</b>	Corrosive liquid, acidic, organic, n.o.s.(Lead(II)methanesulphonate)
<b>UN number</b>	UN 3265
<b>Class</b>	8
<b>Packing group</b>	II

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service

representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

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**15. REGULATORY INFORMATION**

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**Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312**

Serious eye damage or eye irritation  
 Reproductive toxicity  
 Specific target organ toxicity (single or repeated exposure)  
 Skin corrosion or irritation

**Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313**

This product contains a chemical which is listed in Section 313 at or above de minimis concentrations.

<b>Components</b>	<b>CASRN</b>
Lead Compounds	

**Pennsylvania Right To Know**

The following chemicals are listed because of the additional requirements of Pennsylvania law:

<b>Components</b>	<b>CASRN</b>
Lead(II) methanesulphonate	17570-76-2
Water	7732-18-5

**California Prop. 65**

WARNING: This product can expose you to chemicals including Lead(II) methanesulphonate, which is/are known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**United States TSCA Inventory (TSCA)**

All components of this product are in compliance with the Active inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

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**16. OTHER INFORMATION**

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**Hazard Rating System**

**NFPA**

Health	Flammability	Instability
3	0	1

**Revision**

Identification Number: 10366219 / 1304 / Issue Date: 07/27/2023 / Version: 7.0  
 Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this document.

**Legend**

ACGIH	USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL	USA. NIOSH Recommended Exposure Limits
TWA	8-hour, time-weighted average

**Full text of other abbreviations**

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECl - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

**Information Source and References**

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

ROHM AND HAAS ELECTRONIC MATERIALS LLC urges each customer or recipient of this (M)SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (M)SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as

manufacturer-specific (M)SDSs, we are not and cannot be responsible for (M)SDSs obtained from any source other than ourselves. If you have obtained an (M)SDS from another source or if you are not sure that the (M)SDS you have is current, please contact us for the most current version.

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