

## Safety Data Sheet

<b>TA Instruments Inc.</b> 159 Lukens Drive New Castle, DE 19720 U.S.A. Tel: +1 302-427-4000 FAX: +1 302-427-4001 www.tainstruments.com	<b>EU: TA Instruments, A Division of Waters NV/SA</b> ConneXion Business Park Brusselsesteenweg 500 B-1731 Zellik, Belgium Phone: 32/2 706 00 80 Fax: 32/2 706 00 81 Email: Belgium@tainstruments.com	<b>FOR CHEMICAL EMERGENCY</b> 24 Hours per Day, 7 Days per Week Call CHEMTREC 800-424-9300 Outside N. America call collect +1 703-527-3887 SDS email inquiries: info@tainstruments.com
--	---	--

### 1. IDENTIFICATION

Product: Silver Paint P/N 853161.901	MSDS #: 901185.001
Product Use: For laboratory use only.	Date: Rev B, November 15, 2013

### 2. HAZARDS IDENTIFICATION:

Classification & labeling according to GHS and Table 3.1 Annex VI of regulation 1272/2008/EU, as amended:  
 Classification: Hazard Class and Category: Flammable liquid, Category 3: Flammable liquid and vapour; Specific target organ toxicity after single exposure, Category 3: May cause drowsiness or dizziness.



GHS/CLP Label Elements: Pictogram(s):  Signal Word(s): Warning. Hazard statement(s): Flammable liquid and vapour. May cause drowsiness or dizziness. Precautionary statements(s): Avoid breathing vapours. Avoid contact with eyes.

The small quantities supplied in our products are unlikely to cause severe or immediate health effects. Use only as directed and in accordance with safe laboratory practices.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS:

CHEMICAL INGREDIENT NAME	CAS NUMBER	EC NUMBER	% by Weight	EXPOSURE LIMITS		
				OSHA	ACGIH	EU IOELV
Silver (metallic)	7440-22-4	231-131-3	28 - 30	0.01mg/ m <sup>3</sup>	0.1 mg/m <sup>3</sup>	0.1 mg/m <sup>3</sup>
n-Butyl acetate	123-86-4	204-658-1	70 - 72	150 ppm	150 ppm; 200 ppm STEL	NA

Notes: Paint is provided in a 2 ounce container, for use in creating electrically conductive paths on insulating materials. Exposure Limits are 8-Hour TWA. (Time Weighted Average) unless designated C (Ceiling) or STEL (Short Term Exposure Limit).

### 4. FIRST AID MEASURES:

Inhalation: Remove to fresh air.  
 Skin Contact: Wash with soap and water.  
 Eye Contact: Immediately flush with water for a minimum of 15 minutes.  
 Ingestion: Get medical attention.

After following first aid measures, seek medical attention.

### 5. FIRE-FIGHTING MEASURES:

Flammable Properties: Flammable liquid.  
 Extinguishing Media: Dry chemical, carbon dioxide or appropriate foam.  
 Unique Aspects Contributing To a Fire: None.  
 Special Fire Fighting Procedures: None.  
 Note: As in any fire, wear self-contained breathing apparatus, and full protective gear.

6. ACCIDENTAL RELEASE MEASURES: Due to small quantities involved, spills or leaks should not pose a significant problem. Absorb liquid with spill pillow or other absorbent. Place wastes into closed containers for proper disposal.

7. HANDLING AND STORAGE: Handle as directed and in accordance with safe laboratory practices.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

Handle in accordance with safe laboratory practices.

Respiratory Protection: Not normally needed. If exposure limits are exceeded, use approved organic vapor cartridge respirator with a particulate filter.

Eye Protection: Safety glasses with side protection.

Skin Protection: Neoprene or other chemical resistant gloves. Disposable nitrile are acceptable for light intermittent exposure.

Engineering Controls: Work in a fume hood or use general or other local exhaust ventilation to meet Exposure Limits.

**9. PHYSICAL AND CHEMICAL PROPERTIES:**

Appearance: Silvery liquid

Physical State: Liquid	Flash Point: 23-26°F (73-78°C)	Vapor Pressure: 8-15 mm Hg
Odor: Sweet, banana like	Explosion Limits: NA	Vapor Density (air=1): 4
pH: NA	Boiling Point: 255-259°F (124-126°C)	Solubility in Water: NA
Specific Gravity: NA	Melting Point: -108°F (-78°C)	Other: NA

**10. STABILITY AND REACTIVITY:**

Hazardous Polymerization  Will Not Occur  May Occur

Stability: Stable

**Hazardous Decomposition/Combustion Products:**

Oxides of carbon.

**Conditions & Materials to Avoid:**

Heat, strong oxidizing or reducing agents.

**11. TOXICOLOGICAL INFORMATION:**

Primary Route(s) of Exposure under Normal Use: Inhalation.

Target Organ(s): Respiratory system, skin.

Acute Effects: Eye and upper respiratory tract irritation. Vapors may cause drowsiness and dizziness. LD50 Oral - rat - 10,700 - 14,130 mg/kg; LC50 Inhalation - rat - 4 h - 9.6 - 29.2 mg/l; LD50 Dermal - rabbit - 17,600 mg/kg.

Chronic Effects: Silver may cause argyria (gray coloring of the skin).

Other Information: Chemical Ingredient(s) not classified as carcinogen(s) by OSHA, IARC, NTP, ACGIH, or California.

12. ECOLOGICAL INFORMATION: Harmful to aquatic life. LC50-bluegill-100 mg/l-96 hr; EC50-water flea-72.8-205 mg/l-24 hr.

13. DISPOSAL CONSIDERATIONS: Consult state, local or national regulations for proper disposal. The U.S. Environmental Protection Agency (EPA) classifies unused product as hazardous waste.

**14. TRANSPORT INFORMATION:**

**IATA/ICAO:** Shipping Name: Paint Related Material  
Hazard Class: 3  
UN/NA #: UN 1263  
Packing Group #: III

IMDG: Same as IATA  
ADR: Same as IATA

**15. REGULATORY INFORMATION:**

**U.S. TOSCA:** Constituents listed.

**Canada:** This product has been classified according to the hazard criteria of the Controlled Product Registration (CPR) and this SDS contains all the information required by the CPR.

**16. OTHER INFORMATION:**

<u>U.S. EPA</u>		National Fire Protection Association Rating n-Butyl acetate	
<u>SARA 313 Chemicals</u>	<u>CERCLA RQ</u>	4=Severe Hazard	HEALTH 2
None	n -Butyl acetate: 5000 lbs	3=Serious Hazard	FLAMMABILITY 3
		2=Moderate Hazard	REACTIVITY 0
		1=Slight Hazard	OTHER
		0=Minimal Hazard	

**Notes, abbreviations and acronyms:**

ACGIH: American Conference of Governmental Industrial Hygienists  
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
EC: European Commission  
EU IOELV: European Union Indicative Occupational Exposure Limit Values

GHS: Globally Harmonized System of Classification and Labeling of Chemicals  
IATA: International Air Transport Association  
IMDG: International Maritime Code for Dangerous Goods  
NA: Not Available.  
OSHA: Occupational Safety and Health Administration

For laboratory use only. Not for drug, household or other uses.

The information contained herein has been compiled from data presented in various technical sources believed to be accurate. Waters makes no warranties and assumes no liability in connection with the use of this information. It is the user's responsibility to determine the suitability of this information and to assure the adoption of necessary precautions.