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**SECTION 1: IDENTIFICATION**

Catalog No. (N/A)

Product Name: **Stirling Silver**  
Synonyms: POR-15 BlackCote  
Manufacturer Name: POR-15, Inc.  
General Use: Topcoat  
Product Description: Modified Urethane Resin mixture

Address: P.O. Box 1235  
Morristown NJ 07962-1235

Email: support@por15.com

Business Phone: (800) 457-6715

Business Fax: (973) 887-8007

Emergency Phone: (973)-887-1999

For information

in North America, call: (800) 457-6715

**CHEMTREC Numbers:**

**For emergencies in the US, call CHEMTREC: 800-424-9300**

**For emergencies outside US, call INTERNATIONAL: (703)527-3887**

Manufacturer MSDS Revision 09/15/2005

Date:

Trade Names: POR-15 BlackCote

Chemical Family: Urethane

**NFPA**

Health: 3

Flammability: 2

Reactivity: 1

Other:

**HMIS**

Health Hazard: 2

Fire Hazard: 3

Reactivity: 0

Personal Protection: G

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**Physical Description / Properties**

Physical State/Appearance: Liquid  
Color: Silver Metallic  
Odor: Characteristic odor  
Vapor Pressure: 2.0 mmHg @ 68°F  
Vapor Density: Heavier than air  
Flash Point: 42.2°C (108°F)  
Auto Ignition Temperature: 246°C (475°F)  
Upper Explosive Limit: 6

Lower Explosive Limit:	0.77
Boiling Point:	155 - 196 °C (312-385 °F)
Solubility:	Negligible In Water
Specific Gravity:	1.0084 (Water = 1)
Evaporation Point:	For solvent: 4.5 (Ether = 1)
Percent Volatile:	21% By Volume
Volatile Organic Compound Content:	2.33 lbs/gal (270 grams/liter)
Viscosity:	250-500 CPS @ 25°C (77°F)
Molecular Formula:	Mixture
Molecular Weight:	Varies

## Ingredients

Chemical Name	CAS#	Lower Percent	Upper Percent
1,2,4 Trimethylbenzene (1)	95-63-6		
Aluminum	7429-90-5		
Exempt Mineral Spirits	64742-47-8		
Aromatic Naphtha	64742-95-6		

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## SECTION 2 : HEALTH HAZARD INFORMATION

Catalog No.: (N/A)

### Health Effects

**Emergency Overview:** Hazardous according to criteria of Worksafe Australia

#### Applies to All Ingredients:

##### Potential Health Effects:

**Eye Contact:** HUMAN EFFECTS & SYMPTOMS OF OVEREXPOSURE:  
May cause severe irritation.

**Skin Contact:** HUMAN EFFECTS & SYMPTOMS OF OVEREXPOSURE:  
May cause irritation.

**Inhalation:** HUMAN EFFECTS & SYMPTOMS OF OVEREXPOSURE:  
Excessive inhalation may cause irritation to nose, throat, lungs.

**Ingestion:** HUMAN EFFECTS & SYMPTOMS OF OVEREXPOSURE:  
May be harmful if swallowed; irritation of mouth, pharynx, esophagus and stomach may develop following ingestion.

**Carcinogenicity:** Carcinogens/Potential Carcinogens: None

**OSHA Designation:** No

**NTP Designation:** No

**IARC Designation:** Monographs: No

Aggravation of Pre-Existing Conditions:

None Known

QUICK IDENTIFIER:  
HEALTH: 2  
FLAMMABILITY: 3  
REACTIVITY: 0  
PROTECTIVE EQUIPMENT: G

## First Aid

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<b>Eye Contact:</b>	Immediately flush eyes with plenty of water for 15 to 20 minutes occasionally lifting eyelids. Get medical attention, if irritation or symptoms of overexposure persists.
<b>Skin Contact:</b>	Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists. Wash contaminated clothing thoroughly before re-use.
<b>Inhalation:</b>	If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention if necessary.
<b>Ingestion:</b>	If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Drink plenty of water, seek medical attention. Give one or two glasses of water to drink and refer to medical personnel.

### 1,2,4 Trimethybenzene (1) :

Aluminum :

Exempt Mineral Spirits :

Aromatic Naphtha :

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## SECTION 3 : PRECAUTIONS FOR USE

Catalog No.: (N/A)

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### Engineering Controls / Personal Protection / Flammability

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<b>Engineering Controls:</b>	Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.
<b>Ventilation System:</b>	Use in well-ventilated areas only. Have adequate general exhaust.
<b>Skin Protection Description:</b>	Cover as much of the exposed skin area as possible with appropriate clothing. If skin creams are used, keep the area covered to a minimum.
<b>Hand Protection Description:</b>	Wear appropriate protective gloves. Consult glove manufacturer's data for permeability data.
<b>Eye/Face Protection:</b>	Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166. Contact lenses should not be worn.
<b>Respiratory Protection:</b>	A NIOSH approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, spray painting, or any other circumstances where air purifying respirators may not provide adequate protection.
<b>Other Protective:</b>	Self-contained breathing apparatus if threshold limit is exceeded. Eyewash and deluge shower should be available.

## Exposure Standards

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### Ingredient Guidelines

#### Ingredient: 1,2,4 Trimethylbenzene (1)

Guideline Type: OSHA PEL-TWA  
Guideline Information: Not Established  
Guideline Type: ACGIH TLV-TWA  
Guideline Information: 25 ppm  
Guideline Type: Australian Exposure Standard  
Guideline Information: 25 ppm

#### Ingredient: Aluminum

Guideline Type: Australian Exposure Standard  
Guideline Type: ACGIH TLV-TWA  
Guideline Type: OSHA PEL-TWA  
Guideline Information: 5 mg/m3

#### Ingredient: Aromatic Naphtha

Guideline Type: OSHA PEL-TWA  
Guideline Information: Not Established  
Guideline Type: ACGIH TLV-TWA  
Guideline Information: Not Established  
Guideline Type: Australian Exposure Standard  
Guideline Information: Not Established

#### Ingredient: Exempt Mineral Spirits

Guideline Type: Australian Exposure Standard  
Guideline Type: OSHA PEL-TWA  
Guideline Type: ACGIH TLV-TWA

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## SECTION 4 : SAFE HANDLING INFORMATION

Catalog No.: (N/A)

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### Storage And Transport

**Handling:** Keep away from heat, sparks, open flame; use with adequate ventilation. Avoid prolonged or repeated contact.

**Storage:** Store in tightly closed containers to prevent moisture contamination. Do not reseal if contamination is suspected. Ideal storage temperature range for ease of handling is 50-81 deg F (10-27 deg C). Avoid contact with skin and eyes.

SHELF LIFE: 6 months - 2 years (unopened can) @ 77 deg F (25 deg C)

Store in tightly closed container and protect from moisture and foreign materials. At maximum storage temperatures noted, material may slowly polymerize without hazard. Ideal storage temperature range is 50-81 deg F (10-27 deg C).

SPECIAL SENSITIVITY (Heat, light, moisture): If container of material is exposed to heat, container can pressurize and burst. If moisture enters container, pressure can build up due to reaction producing carbon dioxide, which can cause sealed container to pressurize and burst. Do not reseal if contamination is suspected.

**Chemical Stability:** Stable under normal conditions

**Conditions to Avoid:** Sparks, open flame, fire.

**Incompatibilities with Other Materials:** Oxidizing agents like bleach, hydrogen peroxide.

**Reactivity:** Non-reactive in water

**Hazardous Polymerization:** None under normal conditions.

DOT Shipping Name: Paint  
DOT UN Number: UN1263  
DOT Hazard Class: 3  
DOT Packing Group: III

## Spills And Disposal

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**Spill Cleanup Measures:** Provide ventilation and respiratory protection if required.  
**Waste Disposal:** Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Incineration is preferred. Arrange disposal in accordance to the EPA and/or state and local guidelines. Triple-rinse drum prior to offering for recycle.

## Fire / Explosion Hazard

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**Fire:** Combustible liquid. At elevated temperatures, vapors can form an ignitable mixture with air. Vapors can flow along surfaces to distant ignition sources and flash back.

**Flash Point:** 42.2°C (108°F)  
**Flash Point Method:** TCC  
**Upper Flammable or Explosive Limit:** 6  
**Lower Flammable or Explosive Limit:** 0.77  
**Auto Ignition Temperature:** 246°C (475°F)  
**Extinguishing Media:** Dry chemical (e.g. monoammonium phosphate, potassium sulfate, and potassium chloride), carbon dioxide, high expansion (proteinic) chemical foam, sand.

**Protective Equipment:** As in any fire wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**NFPA**

Health: 3	Flammability: 2
Reactivity: 1	Other:

HAZARD CLASS: B

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## OTHER INFORMATION

Catalog No.: (N/A)

### **Applies to All Ingredients :**

**TSCA 8(b): Inventory Status:** Not Applicable

### **1,2,4 Trimethylbenzene (1) :**

**Aluminum :**

**Exempt Mineral Spirits :**

**Aromatic Naphtha :**

**HMIS:**

Health Hazard:	2
Fire Hazard:	3
Reactivity:	0
Personal Protection:	G

**NFPA:**

Health:	3
Fire Hazard:	2
Reactivity:	1

**Disclaimer:**

This Health and Safety Information is correct to the best of our knowledge and belief at the date of its publication but we cannot accept liability for any loss, injury or damage which may result from its use. We shall ensure, so far as is reasonably practicable, that any revision of this Data Sheet is sent to all customers to whom we have directly supplied this substance, but must point out that it is the responsibility of any intermediate supplier to ensure that such revision is passed to the ultimate user. The information given in the Data Sheet is designed only as a guidance for safe handling, storage and the use of the substance. It is not a specification nor does it guarantee any specific properties. All chemicals should be handled only by competent personnel, within a controlled environment. Should further information be required, this can be obtained through the sales office whose address is at the top of this data sheet. We welcome any additional information about our products that customers have obtained by personal experience.

**References:**

1. American Chemical Society, STN Easy Online Database
2. Brethericks Reactive Chemical Hazards Database. Version 2.
3. Gassarett and Doulls Toxicology, The Basic Science of Poisons.
4. Hawleys Condensed Chemical Dictionary, Thirteenth Edition
5. IARC monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man, WHO International Research on Cancer.
6. Industrial Hygiene and Toxicology, by F.A. Patty.
7. National Library of Medicine, Department of Health and Human Services, Hazardous Substances Data Bank (HSDB).
8. National Toxicology Program (NTP) Eighth Report on Carcinogens, 1997.
9. NIOSH Registry of Toxic Effects of Chemical Substances (RTECS) and Pocket Guide to Chemical Hazards.
10. OSHA Hazard Communication Standard, 1910.1200 and Z Tables.
11. Sax Dangerous Properties of Industrial Materials. Tenth Edition.
12. The Merck Index: An Encyclopedia of Chemicals and Drugs. Merck and Company. Twelfth Edition 1998.
13. Threshold Limit Values for Chemical Substances and Physical Agents in the Work Environment and Biological Exposure Indices. TLV Booklet, 2001.