

**SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

- 1.1 **COMPANY NAME/ ADDRESS:** 3 Elmhurst Street  
Newport News, VA 23603
- 1.2 **PRODUCT NAME** : ENVIROLITE
- 1.3 **CHEMICAL NAME** : Antimony and bismuth filled POE mixture
- 1.4 **PRODUCT USE** : Lead-free X-ray protective sheet (attenuation material)

**SECTION 2 - HAZARDS IDENTIFICATION SUMMARY**

(As defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200)

- 2.1 **Classification of the substance or mixture**  
GHS-US classification Not classified
- 2.2 **Label elements**  
GHS-US labeling No labeling applicable
- 2.3 **Other hazards** No additional information available
- 2.4 **Unknown acute toxicity (GHS-US)** No data available

**SECTION 3 - COMPOSITION, INFORMATION OF INGREDIENTS**

- 3.1 **Substances**  
Not applicable Full text of H-phrases – see section 16

- 3.2 **Mixture**

Chemical Name	GHS-US class	CAS-No	Percentage
Antimony	Not classified	7440-36-0	50-70%
Bismuth	Not classified	7440-69-9	12-25%
Polyolefin elastomer (POE) not class		Trade secret	10-20%
Mineral oil	Not classified	64742-62-7	5-10%

**SECTION 4 - FIRST AID MEASURES**

- 4.1 **GENERAL ADVICE**
- 4.1.1 **EYE CONTACT** No specific first aid necessary for this route of exposure
- 4.1.2 **SKIN CONTACT** No specific first aid necessary for this route of exposure
- 4.1.3 **INHALATION** No specific first aid necessary for this route of exposure
- 4.1.4 **INGESTION** No specific first aid necessary for this route of exposure
- 4.2 **Most important symptoms and effects, both acute and delayed**  
Symptoms/injuries after inhalation None under normal use

4.3 Indication of any immediate medical attention and special treatment needed  
No additional information available

**SECTION 5 - FIRE FIGHTING MEASURES**

5.1 EXTINGUISHING MEDIA

SUITABLE EXTINGUISHING MEDIA: Use extinguishing media appropriate for surrounding fire  
UNSUITABLE EXTINGUISHING MEDIA: None

5.2 SPECIFIC HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:  
FIRE HAZARD None known  
EXPLOSION DATA: None known

5.3 FIRE FIGHTING EQUIPMENT AND PRECAUTIONS FOR FIRE FIGHTERS:  
PROTECTION DURING FIREFIGHTING Firefighters should wear full protective gear

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

6.1.1 For Non-Emergency Personnel No additional information available  
6.1.2 For Emergency Responders No additional information available

6.2 ENVIRONMENTAL PRECAUTIONS: None

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEAN UP:  
For Containment No special measures required  
Methods for cleaning up Recycle product or dispose safely. Waste disposal in accordance with local, state and federal regulations

6.4 REFERENCE TO OTHER SECTIONS No additional information available

**SECTION 7 - HANDLING AND STORAGE**

7.1 PRECAUTIONS FOR SAFE HANDLING: No special handling required

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES  
Storage Conditions No special storage. Keep below 55 C ambient

**SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION**

8.1 CONTROL PARAMETERS - EXPOSURE LIMITS (8 hour TWA, ppm): .

COMPONENT	OSHA PEL	ACIGH TLV
Antimony 7440-36-0	0.5 mg/cu m	0.5 mg/cu m

8.2 ENGINEERING CONTROLS: None required under normal product handling and use

8.3 PERSONAL PROTECTIVE EQUIPMENT:  
Hand protection None required under normal product handling and use  
Eye protection None required under normal product handling and use  
Skin and body protection None required under normal product handling and use  
Respiratory protection None required under normal product handling and use

8.4 USER SAFETY RECOMMENDATIONS: No special user requirements

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

## 9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Solid – flexible thin sheet, grey color
Odor:	None
Odor Threshold:	N/A
pH:	No data available
Melting Point/Freezing Point:	Softening point 55 C
Boiling Point:	No data available
Flash Point:	No data available
Evaporation Rate:	No data available
Flammability:	No data available
Flammability Limits:	No data available
Vapor Pressure:	No data available
Vapor Density:	No data available
Density:	2.9 gm/cc
Solubility:	Insoluble in water
Partition Coefficient:	No data available
Auto-Ignition Temperature:	No data available
Decomposition Temperature:	No data available
Viscosity:	No data available

9.2 OTHER INFORMATION No additional information available

**SECTION 10 - STABILITY AND REACTIVITY**

- 10.1 PRODUCT REACTIVITY: No additional information available
- 10.2 CHEMICAL STABILITY: The product is stable at normal handling and storage conditions
- 10.3 HAZARDOUS REACTIONS: Will not occur
- 10.4 CONDITIONS TO AVOID: None
- 10.5 INCOMPATIBLE MATERIALS: None
- 10.6 HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and dioxide

**SECTION 11 - TOXICOLOGICAL INFORMATION**

## 11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

11.1.1 ACUTE TOXICITY Mixture Not classified

## Product Information

Inhalation	Not classified
Eye Contact	Not classified
Skin Contact	Not classified
Ingestion	Not classified
Carcinogenicity	Not classified
Germ cell mutagenicity	Not classified
Reproductive toxicity	Not classified

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Specific Organ toxicity (single exposure)	Not classified
Specific Organ toxicity (repeated exposure)	Not classified
Symptoms/injuries after inhalation	None under normal use

## 11.1.2 ACUTE TOXICITY Component Information

COMPONENT		
Antimony 7440-36-0	ATE (oral)	7000000 mg/kg
Bismuth 7440-69-9	ATE (oral)	5000000 mg/kg
Mineral Oil 64742-62-7	Acute oral toxicity Rat	LD50 > 5000 mg/kg
Mineral Oil mist 64742-62-7	Acute inhalation toxicity Rat	LC50 > 5.5 mg/L 4 hr
Mineral Oil 64742-62-7	Acute dermal toxicity Rabbit	LD50 > 2000 mg/kg

## SECTION 12 - ECOLOGICAL INFORMATION

### ENVIRONMENTAL SUMMARY:

- 12.1 TOXICITY: No additional information available
- 12.2 PERSISTENCE AND DEGRADABILITY: No additional information available
- 12.3 BIOACCUMULATION: No additional information available
- 12.4 MOBILITY IN SOIL: No additional information available
- 12.5 OTHER ADVERSE EFFECTS: No additional information available

## SECTION 13 - DISPOSAL CONSIDERATIONS

- 13.1 WASTE DISPOSAL METHODS: Not classified as a hazmat solid waste. Dispose in accordance with local, regional, international regulations
- 13.2 DISPOSAL PACKAGING: Dispose in accordance with local, regional, international regulations

## SECTION 14 - TRANSPORT INFORMATION

- SHIPPING DESCRIPTION: In accordance with DOT
- TRANSPORT HAZARD CLASS: Not applicable
- UN NUMBER: Not dangerous goods
- DOT PACKING GROUP: Not applicable

## SECTION 15 - REGULATORY INFORMATION

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## 15.1 U.S. FEDERAL REGULATIONS

Antimony (7440-36-0)	Listed on the United States TSCA inventory Listed on SARA III Section 313 (specific toxic chemical listings) SARA III Section 313 – Emission reporting	1.0%
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Bismuth (7440-69-9)	Listed on the United States TSCA inventory
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## 15.2 US STATE REGULATIONS

Antimony (7440-36-0)	Massachusetts	Right to Know List
	Minnesota	Hazardous Substances List
	New Jersey	Right to Know Hazardous Substances List
	Pennsylvania	Right to Know List

## **SECTION 16 - OTHER INFORMATION**

Date issued: 10/12/20

Revision # A

By: T. Jackson

**SECTION 16 - OTHER INFORMATION**

**REVISED DATE:**  
**REFERENCE:**