



SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

- 1.1 **COMPANY NAME/ ADDRESS:** 3 Elmhurst Street
Newport News, VA 23503
- 1.2 **PRODUCT NAME** : BURLITE
- 1.3 **CHEMICAL NAME** : Antimony and Lead 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
- | | |
|-------------------|------|
| Carc.1B | H350 |
| Aquatic Acute 1 | H400 |
| Aquatic chronic 1 | H410 |
- 2.2 **Label elements**
GHS-US labeling
Hazard pictograms
- 
GHS08


GHS09
- Signal word (GHS-US)** Danger
- Hazard statements**
 H350 - May cause cancer
 H400 – Vary toxic to aquatic life
 P201 – Obtain special instructions before use
 P202 – Do not handle until all safety precautions have been read and understood
 P273 – Avoid release to the environment
 P280 – Wear protective gloves/ protective clothing/face protection
 P308 & P313 – IF exposed or concerned – get Medical advice/attention
 P391 – Collect spillage
 P405 – Store locked up
 P 501 – Dispose of contents/containers in accordance with local/regional/national/international regulations
- 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	40-55%
Lead	Carc. 1B. H350	7439-92-1	25-35%
Polyolefin elastomer (POE) not class		Trade secret	8-15%
Mineral oil	Not classified	64742-62-7	5-10%
Barium sulfate	Not classified	7727-43-7	2 – 5%
Tungsten powder	Not classified	7440-33-7	2%

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: Avoid release to the environment

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
Lead 7439-92-1	50 ug/ cu m	0.05 mg/cu m
Antimony 7440-36-0	0.5 mg/cu m	0.5 mg/cu m
Tungsten 7440-33-7	10 mg/cu m	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: 3.1 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	Harmful if swallowed
Carcinogenicity	May cause cancer
Germ cell mutagenicity	Not classified
Reproductive toxicity	May fertility or the unborn child
Specific Organ toxicity (single exposure)	Not classified
Specific Organ toxicity (repeated exposure)	Causes damage to organs if prolonged or repeated
Symptoms/injuries after inhalation	None under normal use

11.1.2 ACUTE TOXICITY Component Information
LD50 & LC 50 data

COMPONENT		
Lead 74329-92-1	ATE (oral) IARC NTP Status	500 kg/kg 2A 3
Antimony 7440-36-0	ATE (oral)	7000000 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:

COMPONENT		
Lead 74329-92-1		
LC50 fish 1	0.44 mg/l Exposure time 96h	Species: Cyprinus carpio
EC50 Daphnia 1	600 uG/L Exposure time 48h	Species water flea
LC50 fish 2	1.17mg/L Exposure time 96 h	Species Oncorhynchus mykiss

- 12.2 PERSISTENCE AND DEGRADABILITY: May cause long-term adverse environmental effects
- 12.3 BIOACCUMULATION: No additional information available
- 12.4 MOBILITY IN SOIL No additional information available
- 12.5 OTHER ADVERSE EFFECTS: Avoid release to the environment

SECTION 13 - DISPOSAL CONSIDERATIONS

- 13.1 WASTE DISPOSAL METHODS: 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 in sense of transport regulations
- DOT PACKING GROUP: Not applicable

SECTION 15 - REGULATORY INFORMATION

15.1 U.S. FEDERAL REGULATIONS

- Lead (7439-92-1)
 - Listed on the United States TSCA inventory
 - Listed on SARA III Section 313 (specific toxic chemical listings)
 - SARA III Section 313 – Emission reporting 0.1 %
- 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%

15.2 US STATE REGULATIONS

- Lead (7439-92-1)
 - Massachusetts Right to Know List
 - Minnesota Hazardous Substances List
 - New Jersey Right to Know Hazardous Substances List
 - Pennsylvania Right to Know List
 - Proposition 65 California Carcinogen: Yes
 - Proposition 65 California Developmental toxicity Yes
 - Proposition 65 California Reproductive toxicity (female) Yes
 - Proposition 65 California Reproductive toxicity (male) Yes

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

FULL TEST OF H-PHRASES

Aquatic Acute 1
Carc 1B
H 350
H 400

Hazardous to the aquatic environment - Acute Hazard, Category 1
Carcinogen, Category 1B
May cause cancer
Very toxic to aquatic life

Date issued 11/12/20
Revision # A
By: T.Jackson

SECTION 16 - OTHER INFORMATION

REVISED DATE:
REFERENCE: