

LX-57B X-RAY SHIELDING LEAD GLASS
TECHNICAL DATA SHEET

Materials

LX-57B is a lead barium type glass of high optical grade with over 60 percent heavy metal oxide, including at least 55 percent PbO. It offers high light transmission and does not discolor due to radiation.

LX-57B Properties – 9mm, 14mm, 17mm

Minimum density: 4.36 (g/cm³)

Refractive index (Nd): 1.71

Thermal expansion coefficient: 80 X 10⁻⁷ /°C (30-380°)

Knoop hardness: 370

Thickness and Lead Equivalents

Thickness (mm)	7mm	9mm	14mm	17mm
Lead Equivalent (in)	*1/16"	*5/64"	*7/64"	*1/8"
Lead Equivalent (mmPb)	1.6	2.0	3.0	3.3
X-Ray Tube Peak (kV)	150	150	200	200
Weight (lbs./sq.ft.)	6.5	8.1	12.5	14.8
Laminated	No	No	No	Yes (7mm+9mm)

*Lead equivalent is guaranteed in (mmPb). The converted fraction (in.) is less than the lead equivalent (mmPb); fraction is over-coverage.

To calculate the values of the range of "Lead Equivalent (lbs./sq.ft.)," we converted from the values of the "Lead equivalent (mmPb)" using the mentioned figures and rounded off the fractions to one decimal place. 1 foot = 30.48 cm / 1 pound = 453.59 g / Density of lead = 11.3 (m/cm³)

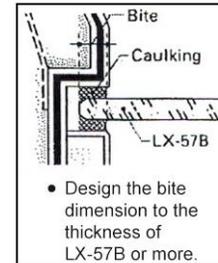
Stock sizes are available up to 48" X 96"



LX-57B & Saf-T-Lite™ Installation & Cleaning

Installation Instructions:

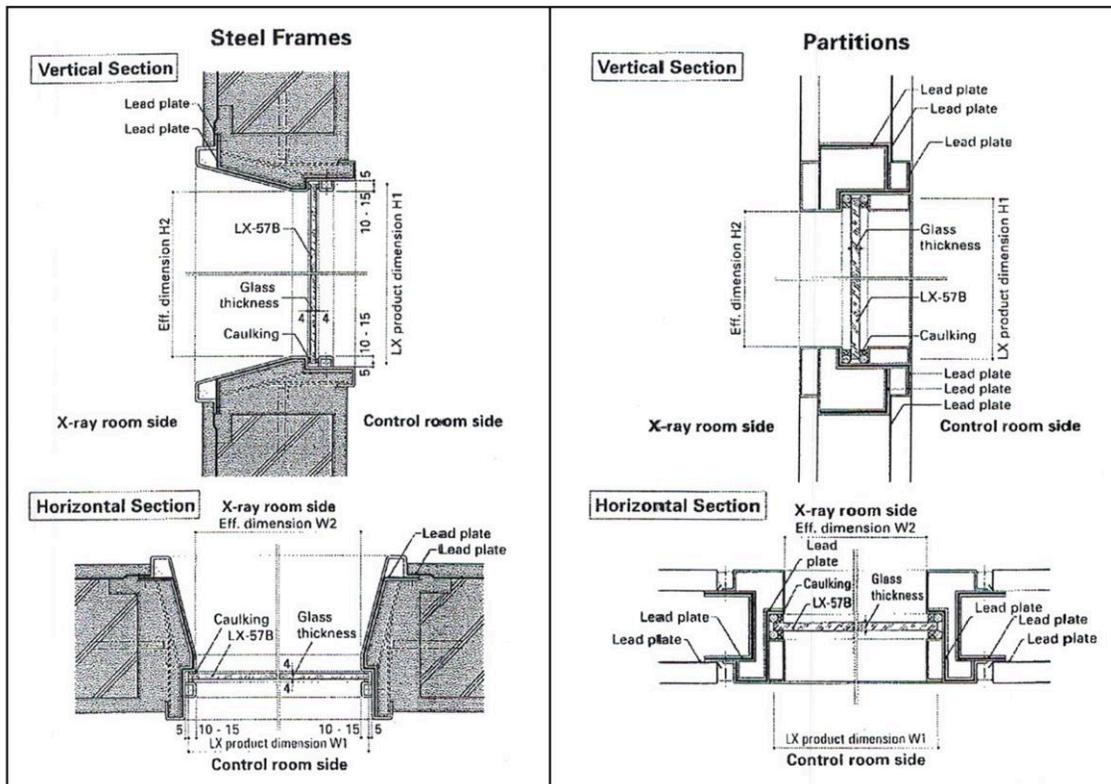
1. Design the bite dimension of LX-57B to the thickness of LX-57B or more.
2. Cover the frame peripheries with lead plates to prevent X-Ray leakage.
3. Fix the four edges of LX-57B with beads.
4. Seal LX-57B using a **non-acetic acid** type silicon sealant.



Precautions for Installation and Cleaning

As a high lead content glass, LX-57B is more susceptible to staining and fogging as compared with normal window glass. Pay attention to the following precautions for installation and cleaning.

1. Do not stick anything on the surface of LX-57B in installation. (When masking tape is used in caulking, remove it immediately after caulking and wipe off any tape traces with alcohol.)
2. **NEVER** use wet cloth or water to clean LX-57B. Immediately wipe off any liquids.
3. Immediately wipe off fingerprints and smudges with a dry, clean cloth.
4. For more difficult fingerprints, smudges, and dirt: polish the surface slightly hard using alcohol and a clean cloth. Wipe LX-57B again afterwards with a new dry, clean cloth to completely remove any alcohol remaining on the surface. Ensure that LX-57B remains **completely dry at all times**.





AMEROPE
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North America's Largest Supplier of LX-57B Radiation Shielding Lead Glass & Saf-T-Lite™ Shields

September 3, 2019

WARRANTY

Amerope Enterprises Inc. warrants that the radiation shielding capability of our Radiation Shielding Lead Glass: LX-57B, Saf-T-Lite™, and LX Premium will not be reduced after years of ordinary use as a radiation shielding window.

Best Regards,

Mike Genna
Vice President



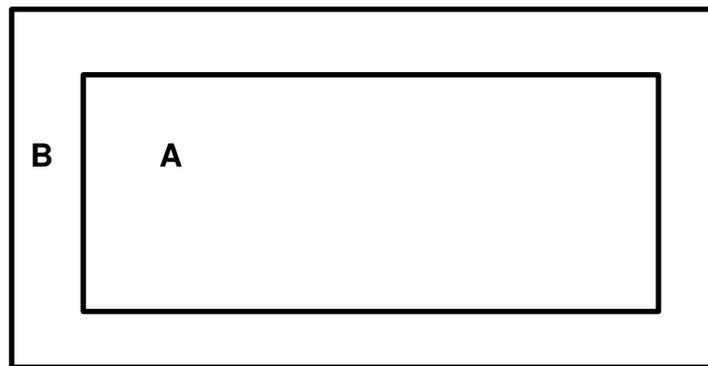
North America's Largest Supplier of LX-57B Radiation Shielding Lead Glass & Saf-T-Lite™ Shields

LX-57B QUALITY CONTROL STANDARDS

SIZE	STONES/BUBBLES	SCRATCH	CHIP	DIMENSIONS
<u>SMALL SIZE</u> (LONGER SIZE SHORTER THAN 25")	A: < 1/16" Ø 1 PC B: < 1/8" Ø 2 PCS	A: NIL B: Shallow enough to not be caught by a nail, and 20MM or shorter	1/4" or shorter in either length, width or depth.	Width/Length: +/- 1/16" Thickness: +/- 0.5MM
<u>MIDDLE SIZE</u> (LONGER SIZE IS 25" OR LONGER AND SHORTER THAN 49")	A: < 1/8" Ø 1 PC B: < 1/8" Ø 2 PCS	A: NIL B: Shallow enough to not be caught by a nail, and 20MM or shorter	1/4" or shorter in either length, width or depth.	Width/Length: +/- 1/16" Thickness: +/- 0.5MM
<u>LARGE SIZE</u> (LONGER SIDE IS 49" OR LONGER)	A: < 1/8" Ø 2 PCS B: < 1/8" Ø 4 PCS	A: NIL B: Shallow enough to not be caught by a nail, and 20MM or shorter	1/4" or shorter in either length, width or depth.	Width/Length: +/- 1/16" Thickness: +/- 0.5MM

Note 1: Regarding the column of STONES/BUBBLES, if the bubble is oval or elongated shape and is longer than 1/16", the judgement is made by regarding it as a circular shape of the same area. For this purpose, the area of an oval or elongated is defined as the product of its longer side measure multiplied by its shorter side measure.

Note 2: A and B in the columns of STONES/BUBBLES and SCRATCH shows the zone of below.



| ← (Measure of each side) x0.2/2

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 04/23/2020

Reviewed on 04/20/2020

1 Identification

- **Product Identifier**
- **Trade Name:** LX57B Lead Glass
- **Relevant identified uses of the substance or mixture and uses advised against:**
- **Product Description:** Lead oxidized glass for radiation protection
- **Details of the Supplier of the Safety Data Sheet:**
- **Manufacturer/Supplier:**
 Manufacturer:
 Nippon Electric Glass
 7-1, 2-Chome, Seiran, Otsu-Shi, Shiga
 Japan 520
 077-537-1700
- **Distributor:**
 Amerope Ent., Inc.
 150 Commerce Rd.
 Boynton Beach, FL 33426
 800-327-3320
 info@amerope.com
 www.amerope.com
- **Emergency telephone number:** 800-327-3320

2 Hazard(s) Identification

- **Classification of the substance or mixture:** Non-Regulated Material
- **Label elements:**
- **Hazard pictograms:** Non-Regulated Material
- **Signal word:** Non-Regulated Material
- **Hazard statements:** Non-Regulated Material
- **Unknown acute toxicity:**
 This value refers to knowledge of known, established toxicological or ecotoxicological values.
 5 % of the mixture consists of component(s) of unknown toxicity.
- **Classification system:** NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme
- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**



- **Hazard(s) not otherwise classified (HNOC):** None known

3 Composition/Information on Ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of substances listed below with non-hazardous additions.

· **Dangerous Components:**

CAS: 1317-36-8	lead monoxide	40-60%
RTECS: OG 1750000	Carc. 1B, H350; Repr. 1A, H360; STOT RE 2, H373; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Acute Tox. 4, H332	

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Trade Name: LX57B Lead Glass

CAS: 7631-86-9	Silicon Dioxide ⚠ Skin Irrit. 2, H315; STOT SE 3, H335; Eye Irrit. 2B, H320	15-35%
CAS: 1304-28-5 RTECS: CQ 9800000	Barium Oxide ⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319	2-12%
CAS: 1303-86-2 RTECS: ED 7900000	diboron trioxide ⚠ Repr. 1B, H360	≤2.5%
CAS: 1309-64-4	Antimony trioxide ⚠ Carc. 2, H351	≤2.5%

Additional information:

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

4 First-Aid Measures

Description of first aid measures

- **General information:** If symptoms persist, call a physician.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** If skin irritation occurs, consult a doctor.
- **After eye contact:**
If eye irritation occurs, consult a doctor.
Rinse opened eye for several minutes under running water.
- **After swallowing:** If swallowed and symptoms occur, consult a doctor.
- **Information for doctor**
- **Most important symptoms and effects, both acute and delayed:** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed:**
No further relevant information available.

5 Fire-Fighting Measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents:** No further relevant information.
- **Special hazards arising from the substance or mixture:** No further relevant information available.
- **Advice for firefighters**
- **Special protective equipment for firefighters:**
As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures:** Not required.
- **Environmental precautions:** No special measures required.
- **Methods and material for containment and cleaning up:**
Pick up mechanically.
Sweep up the material.
Avoid the formation of dust
Dispose of the collected material according to regulations.
- **Reference to other sections:**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

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Trade Name: LX57B Lead Glass

· Protective Action Criteria for Chemicals

· PAC-1:		
1317-36-8	lead monoxide	0.16 mg/m ³
7631-86-9	Silicon Dioxide	18 mg/m ³
1304-28-5	Barium Oxide	1.7 mg/m ³
1303-86-2	diboron trioxide	30 mg/m ³
1309-64-4	Antimony trioxide	1.8 mg/m ³
· PAC-2:		
1317-36-8	lead monoxide	130 mg/m ³
7631-86-9	Silicon Dioxide	740 mg/m ³
1304-28-5	Barium Oxide	200 mg/m ³
1303-86-2	diboron trioxide	100 mg/m ³
1309-64-4	Antimony trioxide	16 mg/m ³
· PAC-3:		
1317-36-8	lead monoxide	750 mg/m ³
7631-86-9	Silicon Dioxide	4,500 mg/m ³
1304-28-5	Barium Oxide	1,200 mg/m ³
1303-86-2	diboron trioxide	620 mg/m ³
1309-64-4	Antimony trioxide	96 mg/m ³

7 Handling and Storage

- **Handling**
- **Precautions for safe handling:** No special precautions are necessary if used correctly.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Specific end use(s):** No further relevant information available.

8 Exposure Controls/Personal Protection

- **Additional information about design of technical systems:** No further data; see section 7.
- **Control parameters:**

· Components with occupational exposure limits:	
1317-36-8 lead monoxide	
PEL	Long-term value: 0.05 mg/m ³ as Pb; See 29 CFR 1910.1025
REL	Long-term value: 0.05* mg/m ³ as Pb;*8-hr TWA; See Pocket Guide App. C
TLV	Long-term value: 0.05 mg/m ³ as Pb; BEI

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Trade Name: LX57B Lead Glass

7631-86-9 Silicon Dioxide	
ACGH	Short-term value: 3 mg/m ³ Long-term value: 10 mg/m ³
IDLH	Short-term value: 3000 mg/m ³ Long-term value: 4 mg/m ³ IDLH: Immediately dangerous to life or health
TWA	Short-term value: 6 mg/m ³ Long-term value: 4 mg/m ³
1304-28-5 Barium Oxide	
PEL	Long-term value: 0.5 mg/m ³ as Ba
REL	Long-term value: 0.5 mg/m ³ as Ba
TLV	Long-term value: 0.5 mg/m ³ as Ba
1303-86-2 diboron trioxide	
PEL	Long-term value: 15* mg/m ³ *total dust
REL	Long-term value: 10 mg/m ³
TLV	Long-term value: 10 mg/m ³
1309-64-4 Antimony trioxide	
TLV	Long-term value: NIC-0.02 mg/m ³ inhalable fraction (L)*, *production
· Ingredients with biological limit values:	
1317-36-8 lead monoxide	
BEI	30 µg/100 ml blood not critical Lead

· **Additional information:** The lists that were valid during the creation of this SDS were used as basis.

· **Exposure controls:**

· **Personal protective equipment**

· **General protective and hygienic measures:** Wash hands before breaks and at the end of work.

· **Breathing equipment:** Not required.

· **Protection of hands:** Not required.

· **Material of gloves:** Not applicable.

· **Penetration time of glove material:** Not applicable.

· **Eye protection:** Not required.

· **Limitation and supervision of exposure into the environment:** None

9 Physical and Chemical Properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form: Solid Glass

Color: Clear

· **Odor:** Odorless

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Trade Name: LX57B Lead Glass

- **Odor threshold:** Not determined.
- **pH-value:** Not determined.
- **Change in condition**
 - **Melting point/Melting range:** Not determined.
 - **Boiling point/Boiling range:** Not determined.
- **Flash point:** None
- **Flammability (solid, gaseous):** Not determined.
- **Ignition temperature:** Not applicable
- **Decomposition temperature:** Not determined.
- **Auto igniting:** Product is not self-igniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**
 - **Lower:** Not determined.
 - **Upper:** Not determined.
- **Vapor pressure:** Not applicable.
- **Density @ 20 °C (68 °F):** 4.38 g/cm³ (36.5511 lbs/gal)
- **Bulk density:** >2,822.4 kg/m³
- **Relative density:** Not determined.
- **Vapor density:** Not applicable.
- **Evaporation rate:** Not applicable.
- **Solubility in / Miscibility with:**
 - **Water:** Insoluble.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
 - **Dynamic:** Not applicable.
 - **Kinematic:** Not applicable.
- **Solvent content:**
 - **VOC content:** 0.00 %
 - **Solids content:** 100.0 %
- **Other information:** No further relevant information available.

10 Stability and Reactivity

- **Reactivity:** No further relevant information available.
- **Chemical stability:** Product is stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

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Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 04/23/2020

Reviewed on 04/20/2020

Trade Name: LX57B Lead Glass

11 Toxicological Information

- **Information on toxicological effects:**
- **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

7631-86-9 Silicon Dioxide

Oral	LD50	10,000 mg/kg (Rat) (OECD 401)
Dermal	LD50	5,000 mg/kg (Rabbit) (OECD 402)
Inhalative	LC50/4 h	>140->2,000 mg/l (Rat) (OCED 403) Maximum attainable concentration, mortality does not appear. 10,000 mg/l (Zebra fish) (OECD 203)

1309-64-4 Antimony trioxide

Oral	LD50	>20,000 mg/kg (Rat)
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- **Primary irritant effect:**
- **On the skin:** No irritating effect.
- **On the eye:** No irritating effect.
- **Additional toxicological information:**
- **Carcinogenic categories:**
- **IARC (International Agency for Research on Cancer):**
 Group 1 - Carcinogenic to humans
 Group 2A - Probably carcinogenic to humans
 Group 2B - Possibly carcinogenic to humans
 Group 3 - Not classifiable as to its carcinogenicity to humans
 Group 4 - Probably not carcinogenic to humans

1317-36-8	lead monoxide	2A
7631-86-9	Silicon Dioxide	3
1309-64-4	Antimony trioxide	2B

· **NTP (National Toxicology Program):**

1317-36-8	lead monoxide	R
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· **OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

12 Ecological Information

· **Toxicity:**

· **Aquatic toxicity:**

7631-86-9 Silicon Dioxide

EC50	>1,000 mg/l (Daphnia) (OECD 202)
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- **Persistence and degradability:** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential:** No further relevant information available.
- **Mobility in soil:** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
 Water hazard class 3 (Self-assessment): extremely hazardous for water
 Do not allow product to reach ground water, water course or sewage system, even in small quantities.
 Danger to drinking water if even extremely small quantities leak into the ground.

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Trade Name: LX57B Lead Glass

- **Results of PBT and vPvB assessment:**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects:** No further relevant information available.

13 Disposal Considerations

- **Waste treatment methods**
- **Recommendation:**
Observe all federal, state and local environmental regulations when disposing of this material.
- **Uncleaned packaging**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport Information

- **UN-Number:**
- **DOT, ADR/ADN, IMDG, IATA** Non-Regulated Material
- **UN proper shipping name:**
- **DOT, ADR/ADN, IMDG, IATA** Non-Regulated Material
- **Transport hazard class(es):**
- **DOT, ADR/ADN, ADN, IMDG, IATA**
- **Class:** Non-Regulated Material
- **Packing group:**
- **DOT, ADR/ADN, IMDG, IATA** Non-Regulated Material
- **Environmental hazards:** Not applicable.
- **Special precautions for user:** Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.
- **UN "Model Regulation":** Non-Regulated Material

15 Regulatory Information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture:**
- **SARA (Superfund Amendments and Reauthorization):**

Section 355 (extremely hazardous substances):	None of the ingredients are listed.
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Section 313 (Specific toxic chemical listings):	
1317-36-8	lead monoxide
1304-28-5	Barium Oxide
1309-64-4	Antimony trioxide

TSCA (Toxic Substances Control Act):
All components have the value ACTIVE.

Hazardous Air Pollutants	
1317-36-8	lead monoxide
1309-64-4	Antimony trioxide

- **California Proposition 65:**



WARNING: This product can expose you to chemicals including the listed chemicals which are known to the State of California to cause cancer, birth defects and/or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

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Trade Name: LX57B Lead Glass

· Chemicals known to cause cancer:		
1317-36-8	lead monoxide	
1309-64-4	Antimony trioxide	
· Chemicals known to cause reproductive toxicity for females:		
None of the ingredients are listed.		
· Chemicals known to cause reproductive toxicity for males:		
None of the ingredients are listed.		
· Chemicals known to cause developmental toxicity:		
None of the ingredients are listed.		
· New Jersey Right-to-Know List:		
1317-36-8	lead monoxide	
1304-28-5	Barium Oxide	
1303-86-2	diboron trioxide	
1309-64-4	Antimony trioxide	
· New Jersey Special Hazardous Substance List:		
1317-36-8	lead monoxide	CA
1304-28-5	Barium Oxide	R2
1309-64-4	Antimony trioxide	CA
· Pennsylvania Right-to-Know List:		
7631-86-9	Silicon Dioxide	
1303-86-2	diboron trioxide	
1309-64-4	Antimony trioxide	
· Pennsylvania Special Hazardous Substance List:		
1309-64-4	Antimony trioxide	E
· Carcinogenic categories:		
· EPA (Environmental Protection Agency):		
1317-36-8	lead monoxide	B2
1304-28-5	Barium Oxide	D, CBD(inh), NL(oral)
1303-86-2	diboron trioxide	I (oral)
· TLV (Threshold Limit Value established by ACGIH):		
1317-36-8	lead monoxide	A3
1304-28-5	Barium Oxide	A4
1309-64-4	Antimony trioxide	A2
· NIOSH-Ca (National Institute for Occupational Safety and Health):		
None of the ingredients are listed.		
· GHS label elements Non-Regulated Material		
· Hazard pictograms: Non-Regulated Material		
· Signal word: Non-Regulated Material		
· Hazard statements: Non-Regulated Material		
· National regulations:		
None of the ingredients are listed.		
· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.		

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Trade Name: LX57B Lead Glass

16 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

· **Date of last revision/ revision number:** 04/23/2020 / -

· **Abbreviations and acronyms:**

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety & Health Administration

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B

Carc. 1B: Carcinogenicity – Category 1B

Carc. 2: Carcinogenicity – Category 2

Repr. 1A: Reproductive toxicity – Category 1A

Repr. 1B: Reproductive toxicity – Category 1B

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

· *** Data compared to the previous version altered.**

SDS created by MSDS Authoring Services www.msdsauthoring.com +1-877-204-9106