SAFETY DATA SHEET

Section 1: Identification	
Product Name(s):	Strate-Line® Steam Sterilization Indicators, SmalStrip® Steam Sterilization Indicators, Twindicator® Perforated Steam Sterilization Indicators, OK® Steam Sterilization Indicators
Reorder No.:	26510100, 26510200, 26510300, 26510400, 26410100, 26410300
Purpose/Use:	Steam Sterilization Indicators
Contact Info:	Propper Manufacturing Co. Inc. 36-04 Skillman Avenue Long Island City, NY 11101 (718) 392-6650 (Regular and Emergency Number)

Section 2: Hazard Identification	
Source of Hazard	***GHS Classification, GHS symbols, and Hazard and Precautionary Statements***
Lead (II) carbonate (Synonyms: lead subcarbonate hydroxide; basic lead carbonate)	**GHS Classification:** • Oral – In case of accidental ingestion, Category 4 • Inhalation – Not a source of exposure. Solid material. • Reproductive – In case of accidental ingestion, Category 1A • Environmental – Aquatic, Category 1 **GHS Label Elements:**  Signal Word: Danger **Hazard and Precautionary Statements:** • H302 Harmful if swallowed • H350 May cause cancer (in case of ingestion) • H360DF May damage fertility or the unborn child (in case of ingestion) • H372 Causes damage to organs (in case of ingestion) • H373 May cause damage to organs through repeated exposure (in case of ingestion) • H410 Very toxic to aquatic life with long lasting effects • P264 Wash hands thoroughly after handling and before eating • P270 Do not eat, drink or smoke when using this product • P273 Avoid release to environment • P280 Wear protective gloves • P301 + P312 + P330 IF SWALLOWED: Call a Poison Center or doctor if you feel unwell. Rinse mouth. • P501 Dispose of contents in accordance with regulations
Sulfur	**GHS Classification:** • Skin Irritation – For sensitive individuals, Category 2 **GHS Label Elements:**  Signal Word: Warning **Hazard and Precautionary Statements** • H303 May be harmful if swallowed • H316 May cause mild skin irritation • H320 May cause eye irritation (in case of accidental contact) • P264 Wash hands thoroughly after handling and before eating

Section 3: Composition and Information on Ingredients

Hazardous Ingredients	*Approximate Concentration*	*CAS*	*Notes*
Paper	>98%	n/a	See Section 16
Lead II Carbonate	<1%	1319-46-6	See Section 16
Sulfur	<1%	7704-34-9	See Section 16

Section 4: First Aid Measures

Eye Contact	In case of accidental contact, may cause eye irritation. Rinse eyes with plenty of water; do not use boric acid to rinse with. Remove contact lenses.
Skin Contact	In case of accidental contact, may cause skin irritation. Wash skin thoroughly with mild soap and water.
Inhalation	Not a source of exposure. No need for first aid is anticipated.
Ingestion	Rinse mouth with water. Repeated ingestion could lead to absorption of the lead compound which may cause birth defects or cancer. Consult a physician.

Section 5: Fire Fighting Measures

Classification	N/A
Flash Point	N/A
Extinguishing Media	Any class A or class B extinguishing media, including: foam, carbon dioxide or dry chemical.
Special Fire Fighting Procedures	Use a self contained breathing apparatus to avoid fumes.
Special Fire and Explosion Hazards	None.

Section 6: Accidental Release Measures

Spill, Leak, and Disposal Procedures	None.

Section 7: Handling and Storage

Handling Procedures	Wear gloves. Do not ingest. Do not use after expiration date.
Storage Procedures	Store product at or below at or below 32°C (90°F) and at relative humidity below 70%RH. Keep out of direct sunlight. Conditions apply before and after use.

Section 8: Exposure Control/Personal Protection

Exposure Limits	**For Lead: ACGIH-TLV -** TWA, 0.05 mg/m^3, see section 16.
Engineering Controls	None.
Respiratory Protection	None.
Eye Protection	None.
Skin Protection	Use gloves approved to relevant local standards.

Section 9: Physical and Chemical Properties

Physical State	Solid.
Appearance	Paper substrate with white/off-white printed ink.
Odor	None.
Vapor Pressure	N/A
pH	Approximately 7 to 11 (when submerged in water)
Relative Density	N/A
Melting/Freezing Point	N/A
Solubility in Water	Insoluble
Boiling Point/Range	N/A
Flash Point	N/A
Evaporation Rate	N/A
Flammability	Combustible (see NFPA information in Section 16)

Partition Coefficient: n-octanol/water	N/A
Decomposition Temperature	> 400°F
Viscosity	N/A
Explosive Limit	N/A

Section 10: Stability and Reactivity

Stability	Stable.
Incompatibility	None.
Hazardous Polymerization	Will not occur.
Combustion and Decomposition Products	Carbon monoxide, carbon dioxide, lead oxide when burned.

Section 11: Toxicological Information

Effects of Exposure

Effects due to Presence of Lead Compound

- **Acute toxicity:** Acute toxicity estimate Oral 500.01 mg/kg
- **Skin corrosion/irritation:** no data available
- **Serious eye damage/eye irritation:** no data available
- **Respiratory or skin sensitization:** no data available
- **Germ cell mutagenicity:** no sufficient data for classification
- **Carcinogenicity** Classified 2B (Possible for human) by IARC
- **Reproductive toxicity** Category 1A.
- **Specific target organ toxicity - single exposure (GHS):** no data available
- **Specific target organ toxicity - repeated exposure (GHS):** may cause damage through prolonged or repeated exposure
- **Aspiration hazard:** no data available. Solid compound.

Potential health effects of Lead Compound

- **Inhalation:** Not a source of exposure. Solid material.
- **Ingestion:** May be harmful if swallowed.
- **Skin:** May cause mild irritation in case of skin contact. Use gloves if necessary.
- **Eyes:** In case of eye contact may cause irritation.
- **Additional Information:** RTECS: OF9275000

Effects due to Presence of Sulfur

- **Acute toxicity:** no data available
- **Skin corrosion/irritation:** slight irritation
- **Serious eye damage/eye irritation:** slight irritation
- **Respiratory or skin sensitization:** no data available
- **Germ cell mutagenicity:** Not designated by NTP, IARC, or OSHA as a probable human mutagen
- **Carcinogenicity:** Not designated by NTP, IARC, or OSHA as a probable human carcinogen
- **Reproductive toxicity** Not designated by NTP, IARC, or OSHA as a probable human teratogen
- **Specific target organ toxicity - single exposure (GHS):** no data available
- **Specific target organ toxicity - repeated exposure (GHS):** no data available
- **Aspiration hazard:** no data available. Solid compound.

Potential health effects of Sulfur

- **Inhalation:** Not a source of exposure. Solid material.
- **Ingestion:** May be harmful if swallowed.
- **Skin:** May cause mild irritation in case of skin contact. Use gloves if necessary.
- **Eyes:** In case of eye contact may cause irritation.
- **Additional Information:** RTECS: WS4250000

Section 12: Ecological Information

Ecotoxicity	Toxic to aquatic life; may have long-term adverse effects on aquatic environments.
Biodegradability	No data available.

Section 13: Disposal Considerations

Waste Disposal	Observe all federal, state, and local environmental regulations. May be incinerated.

Section 14: Transport Information

US DOT	Not a DOT controlled chemical
Special provisions for transport	Not applicable
IATA – Air transport	UN No: N/A, Packing group: N/A, Class: N/A
IMDG - Marine Transport	UN No: N/A, Packing group: N/A, Class: N/A
European ADR	Contact Propper MFG for more information.
International Shipping	Contact Propper MFG for more information.
Canadian TDG	Contact Propper MFG for more information.

Section 15: Regulatory Information

US Federal and State Regulations	**CERCLA**: Not subject **SARA 304**: Not subject **SARA 302**: Not subject **SARA 311/312**: • For component lead carbonate: Acute health hazard; chronic lead hazard **SARA 313**: See Section 16 regarding EPCRA Section 313. **California (Proposition 65):** This product contains trace levels of a compound or component known to the state of California to cause cancer or reproductive toxicity.
Canada	Lead carbonate hydroxide. Class D-2A. Material causing other toxic effects.

Section 16: Other Information

This information pertains to the component present in the products listed in this specification. Propper had cytotoxicity testing done and the test concluded that the products do not impart cytotoxic properties to the various substrate samples sterilized in contact with them (Propper PIR 84-3). Additionally, these products have been in use in the medical industry for several decades with no toxic or allergic reactions reported. However, some of the components in this product have been classified as toxic and/or carcinogenic, of which the following hazards may apply:

- H316 (May cause mild skin irritation). Toxic when ingested - H302 (Harmful if swallowed), H350 (May cause cancer if ingested), H360DF (May damage fertility or the unborn child if ingested).
- EPCRA 311/312 Hazard Categories: Fire Hazard – No; Pressure Hazard – No; Reactivity Hazard – No; Immediate Hazard – No; Delayed Hazard – Yes
- Product(s) contain a toxic component subject to the reporting requirements of EPCRA Section 313 and 40 CFR Part 372: Lead carbonate (CAS 1319-46-6)

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

- **Health**: 2 // **Flammability**: 2 // **Instability**: 0 // **Special Hazards**: None
  - Product(s) contains a paper component which can easily burn when exposed to an ignition source (e.g. open flame, sparks, etc.). Products are otherwise not considered a fire hazard in normal ambient conditions or normal use.

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