



SAFETY DATA SHEET

1: Identification of the Substance and Company
STERIS Dart NB113 and NB215
MSDS No. S141

NFPA 704 Hazard Rating
Health: 1
Flammability: 1
Reactivity: 0
Special Hazards: None

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Date Created: April 21, 2011

Date Revised: May 3, 2012

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2: Hazards Identification

Immediate health, physical, and environmental hazards: Contains a chemical or chemicals which can cause birth defects or other reproductive harm. Contains a chemical or chemicals which can cause cancer.

3. Composition/Information on Ingredients

Table with 8 columns: Hazardous Component (s), % By Wt., CAS No., EU No., Symbol, R Phrases, Oral LD50, Inhalation LC50. Rows include Lead carbonate hydroxide and Other Non-Hazardous ingredients.

4: First Aid Measures

Eye Contact: Flush eyes immediately with water for at least 15 minutes. Get medical attention if irritation develops.
Skin Contact: Flush skin immediately with water for at least 15 minutes. Get medical attention if irritation develops.
Inhalation: Remove patient to fresh air. If not breathing, give artificial respiration. Get medical attention.
Ingestion: Do not induce vomiting. Get medical attention. Do not give anything by mouth to an unconscious person. If conscious, drink a large quantity of milk or water.

5: Fire Fighting Measures

Conditions of Flammability/Flash Point: NA
Autoignition Temperature: ND
Flammability Classification: NA

Method: NA
Flammable Limits: LEL : NA UEL : NA

Special Hazards: None known.
Explosibility Date: No unusual fire or explosion hazards are anticipated.
Extinguishing Media: Ordinary combustible material. Use fire extinguishers with class A extinguishing agents (e.g. water, foam). Use fire extinguishers with class B extinguishing agents (e.g. dry chemical, carbon dioxide).
Special Fire Fighting Procedures: Wear full protective equipment and a self-contained breathing apparatus (SCBA).

Hazard Combustion Products: CO, CO2

6: Accidental Release Measures

Not applicable.
In the event of a release of this material, the user should determine if the release qualifies as reportable according to local, state, and federal regulations.

7: Handling And Storage

7.1 Handling: Avoid eye contact. Do not ingest. Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.
7.2 Storage: Not applicable.

8: Exposure Controls/Personal Protection

8.1 Occupational Exposure Limits
Ingredient Authority Type Limit Additional Information
Lead, Inorganic Compounds ACGIH TWA, as Pb 0.05 mg/m3 Table A3
Lead, Inorganic Compounds OSHA TWA, as Pb 0.05 mg/m3 Standard Appendix
Lead, Organic Compounds ACGIH TWA, as Pb 0.05 mg/m3 Table A3
8.2 Personal Protection
Respirator Protection: Under normal use conditions, airborne exposures are not expected to be significant thoroughly with soap and water.
Eye Protection: Safety glasses.
Protective Gloves: Not applicable
Other Protective Clothing and Equipment: Not required.
Engineering Controls/Ventilation: Local exhaust ventilation recommended to maintain air concentrations below established limits (see Section 8.1).

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

9: Physical And Chemical Properties

Solubility in Water: Nil Specific Gravity: NA
pH (conc.): NA
Physical State/Appearance/Odor: Solid, White card with yellow and black ink, no odor.
Odor Threshold, Vapor Pressure, Vapor Density, Evaporation Rate, Boiling Point and Freezing Point: ND
Coefficient of Water/Oil Distribution: NA

10. Stability And Reactivity

Stability: Stable Hazardous Polymerization: Will not occur.
Incompatible Materials: None known.
Conditions to Avoid/Conditions of Reactivity: None known.
Hazardous Decomposition or Byproducts: CO, CO2 and oxides of Lead during combustion. Under recommended usage conditions, hazardous decomposition products are not expected. Hazardous decomposition products may occur as a result of oxidation, heating, or reaction with another material.

11: Toxicological Information

11.1 Acute (Primary Routes of Exposure)
Eyes (Irritancy): No health effects are expected.
Skin (Irritancy or Sensitization): No health effects are expected
Inhalation: No health effects are expected.
Ingestion: Repeated ingestion of the product may be absorbed and cause target organ effects.
Prolonged or repeated exposure may cause: May accumulate in the body.
Auditory Effects: Signs/symptoms may include hearing impairment, balance dysfunction and ringing in the ears.
Hard Tissue Effects: Signs/symptoms may include color changes in the teeth and nails, changes in development of bone, teeth or nails, weakening of the bones, and hair loss.

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Liver Effects: Signs/symptoms may include loss of appetite, weight loss, fatigue, weakness, abdominal tenderness and jaundice.

Kidney Effects: Signs/symptoms may include reduced or absent urine production, increased serum creatinine, lower back pain, increased protein in urine, and increased blood urea nitrogen (BUN).

Peripheral Neuropathy: Signs/symptoms may include tingling or numbness of the extremities, incoordination, weakness of the hands and feet, tremors and muscle atrophy.

Vascular Effects: Signs/symptoms may include changes in blood pressure, fainting, shock, hemorrhage, and stroke.

Gastrointestinal Effects: Signs/symptoms may include stomach upset; nausea, vomiting and diarrhea.

11.2 Long Term Exposure

Carcinogenicity: Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

Ingredient C.A.S. No. Class Description Regulation:

LEAD, INORGANIC COMPOUNDS NONE Group 2B International Agency for Research on Cancer

Reproductive Toxicity/Teratogenicity/Mutagenicity/Toxicologically Synergistic Products: ND

12: Ecological Information

Potential Environmental Effects

The components labeled "Inorganic" do not biodegrade, but may be removed by other mechanisms. Tests show that the components labeled "Bioconcentrate" will bioconcentrate or accumulate in living organisms. **Statements for Lead Carbonate Hydroxide (1319-46-6) are based on data for Lead (7439-92-1).

Inorganic: Lead carbonate hydroxide (1319-46-6)

Bioconcentrate: Lead carbonate hydroxide (1319-46-6)

Lead is very toxic to aquatic organisms (0.1 mg/L < Lowest LC50, E

13: Disposal Considerations

Waste Disposal Method: Dispose of waste consisting of only pre- and/or post-sterilization card material in a permitted hazardous waste facility.

Additional Information: Dispose as appropriate for your waste stream in accordance with local, state and federal regulations.

EPA Hazardous Waste Number (RCRA): D008 (Lead)

Since regulations vary, consult applicable regulations or authorities before disposal.

14: Transport Information

ID Number(s):

70-2006-9736-8, 70-2006-9737-6, 70-2006-9738-4, 70-2007-3058-1

15: Regulatory Information

Us Federal Regulations: Contact STERIS for more information.

311/312 Hazard Categories:

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - No Delayed Hazard - Yes

Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):

Ingredient	C.A.S. No	% by Wt
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Lead carbonate hydroxide (LEAD COMPOUNDS)	1319-46-6	5 - 10
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Lead carbonate hydroxide (LEAD, INORGANIC COMPOUNDS)	1319-46-6	5 - 10
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State Regulations: Contact STERIS for more information.

Chemical Inventories: This product is an article as defined by TSCA regulations, and is exempt from TSCA

Inventory listing requirements. This material contains one or more substances not listed on the TSCA Inventory.

Commercial use of this material is regulated by the FDA. Contact STERIS for more information.

International Regulations: Contact STERIS for more information.

This MSDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

16: Other Information

The information on this sheet is not a specification and does not guarantee specific properties. The information is intended to provide general knowledge as to health and safety based upon our knowledge of the handling, storage and use of the product. It is not applicable to unusual or non-standard uses of the product or where instruction or recommendations are not followed.

NA = Not Applicable

ND = No Data