Getinge Assured

Titems Monitor HP

1.0 Product and Company Identification

Product Name	Getinge Titems Monitor HP Steam
Product Code	6005500397, 6005500399
Recommended Use	For diagnostic use only. Not for normal consumer use. The Getinge Titems Monitor HP multi-variable chemical indicator strips are designed for utilization in steam sterilization cycles operating at 134°C for 3.5 minutes or longer. Not for use with other types of sterilization. When used as directed, the Monitor HP indicator gives a visible indication that sterilizing parameters were met.
Supplier	Getinge Sterility Assurance 74 Inverness Drive East Englewood, CO 80112 USA
Supplier Australia:	Getinge Australia Pty Ltd Suite 701, Level 7, 11 Help Street, Chatswood, NSW 2067, Australia Phone: 1800 438 464
Supplier New Zealand:	Getinge Australia (NZ Branch) Ground Floor, Building A, Unit D Millenium Business Centre 600 Great South Road Ellerslie 1051 Auckland Phone: 0800 1 438 4643
Telephone No.	For emergency event of spillage, inhalation or ingestion of products, please contact the emergency hotline: Australia: +61 280 144 558 New Zealand: +64 9 929 1484
Web	http://www.getinge.com
Email	info@getinge.com

2.0 Hazards Identification

This product is an "article" as defined by the OSHA Hazard Communication Standard (29 CFR 1910.1200), and the seventh revised edition of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS) and is not classified under EC Directives or Regulation. The professional and proper use of this product is not expected to result in exposures to any chemical substance at or above regulatory limits. For informational purposes, this SDS is being provided to convey valuable information to users of this product which are important for the safe handling and proper use of this product. The classifications reflect information for chemicals in this product, even though they are below regulatory limits. This SDS should be retained and be made available to users of this product.

GHS Classification:
Aquatic Chronic Toxicity- Category 1

GHS Label Code(s):
H410

Pictogram(s):

Signal Word(s):
Warning

Hazard Statement(s):
H410: Very toxic to aquatic life with long-lasting effects.

Precautionary Statement(s):
P264 – Wash hands thoroughly after handling.
P270 – Do not eat, drink or smoke when using this product.
P280 – Wear protective eye protection.

Other Hazards: The product contains lead carbonate, a substance of very high concern (SVHC) due to bioaccumulation and toxicity. No adverse health effects are expected under normal handling conditions due to the low concentration. Concentrations are below GHS cut-off levels. My cause harm to aquatic environments even in small amounts; prevent material from entering waterways.

3.0 Composition / Information on Ingredients

Component	EC Number	CAS Number	Weight %
Lead Carobonate*	209-943-4	598-63-0	0.19
Trade Secret 1	Registered	Registered	< 0.1
Non-Hazardous Component	Not Applicable	Not Applicable	99.7

*Carcinogenicity: IARC: 2A - Group 2B: Probably Carcinogenic To Humans
NTP: Reasonably Anticipated To Be A Human Carcinogen
*Reproductive Toxicity: Known Human Reproductive Toxin

4.0 First Aid Measures

Treat symptomatically as described below.

Inhalation:
Breathing difficulty caused by inhalation of particulates requires removal to fresh air. If breathing has stopped, perform artificial respiration if qualified and trained and obtain medical assistance at once.

Ingestion:
Obtain medical assistance at once regardless of the presence or absence of symptoms. Only induce vomiting if advised by a medical professional.

Skin:
Subcutaneous deposition through skin cuts and abrasions can be treated by standard first aid measures. Skin contamination through direct contact can be removed by washing with soap and water. If irritation persists, obtain medical assistance.

Eyes:
Material should be flushed from the eyes with copious amounts of clean water. If irritation persists, obtain medical assistance. DO NOT rub the eyes if particulate matter or foreign objects are present as corneal damage can occur.

5.0 Firefighting Measures

Suitable Extinguishing Media:
Use water, dry chemical, foam, or carbon dioxide to extinguish fire.

Fire Fighting Procedures:
Do not flush extinguishing water down sewers or other drainage systems. Exposed firefighters must wear NIOSH-approved positive pressure self-contained breathing apparatus with full-face mask and full protective clothing.

Unusual Fire and Explosion Hazards:
None Known.

Combustion Products:
Irritating or toxic substances may be emitted upon thermal decomposition including oxides of lead, carbon, carbon monoxide and nitrogen oxides.

6.0 Accidental Release Measures

Personal Precautions, Protective Equipment And Emergency Procedures For Non-Emergency Personnel:
Wear protective gloves when cleaning spilled or re-leased material.

Personal Precautions, Protective Equipment And Emergency Procedures For Emergency Responders:
Wear protective gloves. Respiratory protection should be worn if material is involved in a fire. (See Section 8.0).

Environmental Precautions:
Prevent water used to extinguish fires from reaching drains, sewers, surface waters or groundwater.

Methods and Materials for Containment and Cleanup:
Released material in dry form may be swept up using a broom and dust pan or picked up by hand, using protective gloves. Prevent water used to extinguish fires from reaching drains, sewers, surface waters or groundwater by diking, berming, or using vacuuming methods to clean up extinguishing media.

7.0 Handling and Storage

Precautions for Safe Handling:
Wear impermeable gloves when handling product. DO NOT eat, drink or smoke when handling this product. Wash hands thoroughly after handling.

Storage:
Keep product sealed in its original container at room temperature 10 to 30° C (50 to 86° F) and at normal humidity (10 to 60 %). DO NOT store this product with volatile chemicals, oxidizers or reducing agents, strong acids, or bases, as these may interfere with the proper function. Keep away from fluorine and elevated temperatures.

8.0 Exposure Controls / Personal Protection

Component	CAS Number	OSHA PEL (mg/m3)	ACGIH TLV (mg/m3)
Lead (inorganic dust)	598-63-0	0.15	0.05
Trade Secret 1	Registered	None Established	None Established
Non-Hazardous Component	Not Applicable	Not Applicable	Not Applicable

Appropriate Engineering Controls:
None needed when this product is used in its prescribed manner by qualified personnel.

Eye/Face Protection:
None required. If desired, use safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin Protection:
Wear protective PPE if skin exposure is for extended periods. The type of protective equipment should be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory Protection:
If dust is present and inadequate ventilation is present, use a P1 or P2 particulate respirator (AS/NZS 1716 Compliant).

Thermal Hazards:
Product may be hot when removing from sterilization equipment.

Hygiene Measures:
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9.0 Physical and Chemical Properties

Appearance	White Test Strip (Solid)
Odor	None
Odor Threshold	None
pH	Not Applicable
Melting Point	Not Applicable
Freezing Point	Not Applicable
Boiling Point	Not Applicable
Boiling Range	Not Applicable
Flash Point	Not Applicable
Evaporation Rate	Not Applicable
Flammability	Not Flammable
Upper Flammable Limit	Not Applicable
Vapor Pressure	Not Applicable
Vapor Density	Not Applicable
Relative Density	Not Applicable
Solubility	Not Soluble
Octanol/Partition Coefficient	Not Applicable
Auto Ignition Temperature	Not Available
Decomposition Temperature	Not Available
Viscosity	Not Applicable

10.0 Stability and Reactivity

Reactivity: This product is not reactive.

Chemical Stability: This product is stable under normal handling conditions.

Possibility of Hazardous Reactions: This product will not polymerize.

Conditions to Avoid: Avoid open flames as test paper is combustible.

Incompatible Materials: Acids, Bases, Oxidizers, Reducing Agents and Halogens.

Hazardous Decomposition Products: Irritating or toxic substances including oxides of lead, sulfur, carbon and nitrogen.

11.0 Toxicological Information

The toxicological properties of this product have not been fully investigated as a whole.

Acute Toxicity:	No Data Available
Skin Corrosion/Irritation:	No Data Available
Serious Eye Damage/Irritation:	No Data Available
Respiratory or Skin Desensitization:	No Data Available
Germ Cell Mutagenicity:	No Data Available
Carcinogenicity:	No Data Available
Reproductive Toxicity:	No Data Available
STOT - Single Exposure:	No Data Available
STOT - Repeated Exposure:	No Data Available
Aspiration Hazard:	No Data Available
Ingestion:	No Data Available
Inhalation:	No Data Available
Skin / Eye Exposure:	No Data Available
Acute and Chronic Effects:	No Data Available
Potential Health Effects:	No Data Available
Signs and Symptoms of Exposure:	No Data Available
Synergistic Effects:	No Data Available

12.0 Ecological Information

The ecological properties of this product have not been fully investigated as a whole.

Toxicity to Fish and Invertebrates	No Data Available
Persistence and Degradability	No Data Available
Bioaccumulative Potential	No Data Available
Mobility in Soil	No Data Available
PBT and vPvB Assessment	No Data Available
Other Adverse Effects	No Data Available

13.0 Disposal Considerations

Product:
Offer surplus and non-recyclable material to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated Packaging:
Dispose of as unused product.

14.0 Transport Information

This product is not a hazardous material when shipped according to DOT, IATA or IMDG shipping regulations.

15.0 Regulatory Information

European Inventory of Existing Commerical Chemical Substances:

All substances contained in this product are listed on the EINECS.

16.0 Other Information

This Safety Data Sheet complies with Section 13 of the Canadian Hazardous Products Act (HPA), the Globally Harmonized System (GHS) of Classification and Labeling of Chemicals and the European Union's (EU) Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) requirements.

Abbreviations

%	Percent
C	Degrees Celsius
CAS	Chemical Abstracts Number
EC	European Commission Number
EC50	Half maximal effective concentration
EINECS	European Inventory Of Existing Commercial Chemical Substances
EU	European Union
F	Degrees Fahrenheit
GHS	Globally Harmonized System (GHS) of Classification and Labeling of Chemicals
h	Hours
HPA	Hazardous Products Act
IARC	International Agency for the Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Lethal Dose to kill 50% of test species via inhalation
LD50	Lethal Dose to kill 50% of test species via oral or dermal administration
LDLO	Lethal Dose - Low Concentration
mg/kg	Milligram per kilogram of body weight
mg/l	Milligrams per liter
mg/m3	Milligrams per cubic meter
MSDS	Material Safety Data Sheet
NAAQS	National Ambient Air Quality Standard established under CAA
PBT	Persistent Bioaccumulative Toxin
PEL	Permissible Exposure Limit Averaged Over 8 Hours (See OSHA)
ppb	Parts Per Billion
ppm	Parts Per Million
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals (See EU)
RQ	Reportable Quantity
RTK	Right-To-Know
SDS	Safety Data Sheet
SVHC	Substances of Very High Concern (See REACH)
TLV	Threshold Limit Value Averaged Over 8 Hours (See ACGIH)
vPvB	Very Persistent, Very Bioaccumulative Chemical (See REACH).
WHIMS	Canadian Workplace Hazardous Materials Information System

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END of SDS
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