Material Safety Data Sheet
May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910 1200. Standard must be consulted for specific requirements.

U.S. Department of Labor
Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY *(as Used on Label and List)*
Bookkeeper Deacidification Spray

Note: Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.

Section I

Supplier's name Museum Services Corporation	Emergency Telephone Number 651-450-8954
Address *(Number, Street, City, State and ZIP Code)* *385 Bridgepoint Way*	Telephone Number for Information 651-450-8954
South Saint Paul, MN 55075	Date Prepared 2/10/2020
	Signature of Preparer *(optional)*

Section II—Hazardous Identification

Classification of the substance or mixture
GHS Classification in accordance with 29 CFR 1910 (OSHA HCS): NO GHS CLASSIFICATIONS INDICATED
GHS Label elements, including precautionary statements
GHS Signal Word: NONE

GHS Hazard Statements:
NO GHS HAZARD STATEMENTS INDICATED
Hazards not otherwise classified (HNOC) or not covered by GHS
Route of Entry: Eyes; Ingestion; Inhalation; Skin;
Target Organs: Not expected to effect any specific organs.
Inhalation: Health effects from inhalation are not expected unless product is over heated and decomposition occurs.
Skin Contact: Contact with skin during product use is not expected to result in significant irritation.
Eye Contact: Contact with eyes during product use is not expected to result in significant irritation .
Ingestion: Ingestion is not a likely route of exposure to this product. No health effects are expected.

NFPA: Health= 3, Fire= 0, Reactivity= 0, Specific Hazard= n/a
HMIS III: Health = 1, Fire = 0, Physical Hazard = 0

Section III—Composition/Information on Ingredients
Chemical Characterization: Vinyl Acetate Ethylene Latex

Component	CAS No.	Concentration	
Magnesium oxide (MgO)	1309-48-4	< 0.5%	
Dispersant (Proprietary)		< 0.1%	
Methoxynonafluorobutanes	163702-07-6 & 08-7	>99%	

Section IV—First Aid Measures

General advice - Not applicable.

Skin - Wash off with plenty of water and soap.

Inhalation - If signs/symptoms occur, remove person to fresh air. If signs/symptoms continue, call a physician.

Eyes - Immediately flush eyes with large amounts of clean water for at least 15 minutes. Call a physician.

Ingestion - No need for first aid is anticipated.

Section V—Fire and Explosion Hazard Data

Flammability: Not flammable.

Exposure to extreme heat can give rise to thermal decomposition. If product is in aerosol cans, use water spray to cool fire exposed cans since they can rupture violently from heat induced pressure.

Section VI—Accidental Release Measures

For small spills: Observe precautions from other sections of this SOS.

For large spills: Contain by diking far ahead of liquid spill for later disposal. Do not release into sewers or waterways.

Material is not a US EPA hazardous waste. Dispose of in compliance with local, state and federal regulations.

Section VII—Handling and Storage

Precautions for safe handling: No usual precautions required.

Conditions for safe storage - Store under normal warehouse conditions. If product is in aerosol cans, store in area below 120 F. Do not incinerate containers. Always replace overcap when not in use.

Section VIII—Exposure Control /Personal Protection

Respiratory Protection *:* If material is at or above boiling point, thermal decomposition products may be present. In this case, an OSHA approved air supplied respirator should be used.

Engineering Controls: Local exhaust - for applications at or above the boiling point, use local exhaust ventilation with minimum capture velocity of 50 linear feet per minute.	**Protective measures:** None when used at ordinary room temperatures with sufficient local exhaust ventilation to maintain airborne concentrations at recognized health and safety levels. As good industrial hygiene practice, avoid prolonged breathing of vapors.
Protective Gloves:	**Eye Protection:**
Exposure Limits: Mixture Methoxy nonafluorobutanes (based on manufacturers reports): AIHA (TWAs)/PEL): 750 ppm ACGIH (TWA/TLV): Not available. NIOSH REL: Not available. NIOSH IDLH: Not available.	

Section IX—Physical and Chemical Properties

Appearance: Colorless, turbid liquid.
Physical State: Liquid
Spec Grav./Density: 1.5
Viscosity: 0.7 centipoise at 20 C
Boiling Point: 60 C approx.
Flammability: Not flammable.
Vapor Pressure: 195 mm Hg @ 68 C
pH: Not applicable.
Evap. Rate: > 1 . 0 (n-butyl acetate = 1)
Odor: Mild.
Solubility: Insoluble in water.
Percent Volatile: 99%
Freezing/Melting Pt.: -135 C approx.
Flash Point: None
Vapor Density: 9 approx. (air= 1)
VOC: 0 g/1 (exempt solvent)
Auto-Ignition Temp: 405 C

Section X—Stability and Reactivity

Stability: Stable at room temperature in closed containers under normal storage and handling conditions.

Conditions to Avoid: High temperatures.

Materials to Avoid: Finely divided metals, alkali and alkaline earth metals.

Hazardous Decomposition: Thermal oxidative decomposition of this product can produce hydrogen fluoride and perfluorisobutylene.

Hazardous Polymerization: Will not occur.

Section XI—Toxicological Information

Toxicological information appears in this section when such data is available.

Acute Toxicity: Methoxy nonafluorobutanes (based on manufacturers reports):

Oral (LD 50): >5 g/kg, rat

Inhalation (LC 50): >1,000 mg/l, rat

Dermal (LO 50): no information available.

Toxicity Data:

Eye Effects: Non-irritating under normal use. Vapors from heated material may cause irritation. Specific target organ toxicity (STOT): No data available.

Skin Effects: Minimally irritating.

Acute Inhalation Effects: Not Known.

Chronic Effects: Not Known.

Carcinogenicity: Not Known.

Mutagenicity: Not a mutagen in reverse mutation chromosomal aberration assay.

Teratogenicity: Not Known.

Section XII—Ecological Information

Ecotoxicological information appears in this section when such data is available.

General Information

Chemical Name: Methoxy nonafluorobutanes (based on manufacturers reports).

Acute Toxicity:

Fish: LC-50 (fathead minnow, 96 h):>7.9 mg/l

Aquatic Invertebrates: EC-50 (water flea , 48 h): >10 mg/l.

Persistence and degradabilitv:

Biodegredation: No data available.

BOD: No data available.

COD: No data available.

Bioaccumulation Potential: No data available.

Mobility in Soil: No data available.

Section XIII—Disposal Considerations

Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state and local regulations. As a disposal alternate, incinerate in the presence of a combustible material in an industrial or commercial facility capable of handling halogenated wastes. Reclamation of product is recommended if feasible. An aerosol container that does not contain a significant amount of liquid would meet the definition of scrap metal (40CFR. 261.1 (c)(6)) and would be exempt from RCRA regulation under 40CFR 261.6(a)(3)(iv) if it is to be recycled.

Disposal Regulatory Requirements: Since regulations vary, consult applicable regulations or authorities before disposal. Not US EPA hazardous.

Section XIV—Transport Information

DOT

This product is Non-Regulated in all transportation modes except as packaged in aerosol cans.

Aerosol Cans:

DOT HM-181

Consumer Comm.

ORM-D

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

Section XV—Regulatory Information

Component (CAS#) [%] - CODES

Methoxynonafluorobutanes, Mixture (163702-07-6 & 08-7) [>99%] TSCA, DSL

Magnesium Oxide (MgO) (1309484 <0 .5%) MASS, OSHAWAC, PA, TSCA, TXAIR, DSL

Dispersant (Proprietary, <0.1%), TSCA, DSL

TSCA = Toxic substances control Act

DSL = Canadian Domestic substances List

MASS= MA Massachusetts Hazardous substances List

OSHAWAC = OSHA workplace Air contaminants

PA= PA Right-To-Know List of Hazardous substances

TXAIR = TX Air contaminants with Health Effects screening Level.

Section XVI—Other Information

This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations.

Hazard Rating System

HMIS

Health	Flammability	Physical Hazard
1	0	0

Revision

Version: 1.0

Information Source and References

This SDS is from information supplied by internal references within our company.

Museum Services Corporation urges each customer or recipient of this SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that their activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer specific SDSs, we are not and cannot be responsible for (M)SDSs obtained from any other sources. If you have obtained an SDS from another source or if you are not sure that the SDS you have is current, please contact us for the most current version.