



healthmark
INDUSTRIES CO.
health care products
800-521-6224
www.hmark.com

Product SDS

*Reference date: 8/13/2018 Revision date:
9/8/2022*

01. Identification of the substance/mixture and of the company

Product name: Instrument Protector Card

Code number(s): IPC001, IPC002, IPC003

Purpose of product: To protect delicate items

Manufacturer/supplier: Healthmark Industries Co.

Address: 18600 Malyn Blvd. / Fraser, MI 48026

Telephone/Fax/Email: (800) 521-6224 / (586) 491-2113 / healthmark@hmark.com

Emergency telephone number: (800) 424-9300 (24-hour service)

02. Hazardous identifications

Classification of the substance or mixture: Combustible dust

Hazard Statements (GHS-US): If converted to small particles during further processing, handling, or by other means may form combustible dust concentrations in air.

Pigment: N/A

Adverse environmental and human health effects: Exposure may aggravate pre-existing eye, skin, or respiratory conditions

03. Composition/information on ingredients

<u>Description of the mixture:</u>	<u>CAS #:</u>	<u>% by Weight</u>	<u>GHS-US classification</u>
Cellulose	9004-34-6	60-93	Combustible Dust
Carbonic acid, calcium salt (1:1)	471-34-1	<=20	
Kaolin	1332-58-7	>=10	
Water	7732-18-5	5-8	
Starch, oxidized	65996-62-5	1-5	Combustible Dust
Acrylic acid-styrene polymer	25085-34-1	<=2	
Sulfuric acid, aluminum salt (3:2)	10043-01-3	<=1	Met. Corr. 1, H290 Eye Dam. 1, H318 Aquatic Acute 3, H402
Vinyl acetate polymer	9003-20-7	<=1	Combustible Dust

04. First Aid Measures

Hazardous ingredients: N/A

General information: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice. If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

Following inhalation: For particulates and dust: Encourage exposed person to cough, spit out, and blow nose to remove dust; Call a poison center or a doctor if you feel unwell. Dust may be harmful or cause irritation

Following skin contact: None expected under normal conditions of use. For particulates and dust: Rinse cautiously with water for several minutes. Obtain medical attention if irritation develops or persists. Prolonged exposure may cause skin irritation. Repeated or prolonged contact may cause mechanical irritation.

Following eye contact: For particulates and dust: Rinse cautiously with water for at least 5 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develop or persists. May cause slight irritation to eyes. May cause mechanical eye irritation.

Following ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention. Ingestion may cause adverse effects. If a large quantity has been ingested: May cause gastrointestinal irritation.

Notes for the doctor: N/A

05. Firefighting measures

Suitable extinguishing media: Water spray, fog, carbon dioxide (CO₂), alcohol-resistant foam, or dry chemical.

Unsuitable extinguishing media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Special hazards arising from the substance and combustion products:

Fire Hazard: Not considered flammable but will burn at high temperatures

Explosion Hazard: Accumulation and dispersion of dust with an ignition source can cause a combustible dust explosion. Keep dust levels to a minimum and follow applicable regulations.

Reactivity: Hazardous reactions will not occur under normal conditions.

Advice for firefighters:

Precautionary Measures Fire: Exercise caution when fighting any fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers. Do not breathe fumes or vapors from fire.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Carbon oxides (CO, CO₂). Nitrogen oxides. Calcium oxides. Aluminum oxides. Aliphatic fragments.

Other Information: Risk of dust explosion.

06. Accidental release measures

General information: Avoid breathing dust. Avoid generating dust. Remove ignition sources. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection

Emergency Procedures: Ventilate area. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

Environmental precautions: Prevent entry to sewers and public waters.

Methods and Materials for Containment and Cleaning Up

For Containment: Avoid generation of dust during clean-up of spills. Dry sweeping can contain spilled product. Methods for Cleaning Up: In massive form: Recover the product by vacuuming, shoveling or sweeping. For particulates and dust: use explosion proof vacuum during cleanup, with appropriate filter. Do not mix with other materials. Vacuum clean-up is preferred. If sweeping is required use a dust suppressant. Use only non-sparking tools.

Additional information:

07. Handling and storage

Precautions for safe handling:

Additional Hazard when Processed: Accumulation and dispersion of dust with an ignition source can cause a combustible dust explosion. Keep dust levels to a minimum and follow applicable regulations.

Precautions for Safe Handling: Avoid prolonged contact with eyes, skin and clothing. Avoid creating or spreading dust. Avoid breathing dust. Keep away from heat, sparks, open flames, and hot surfaces. No smoking.

Hygiene Measures: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle in accordance with good industrial hygiene and safety procedures.

Fire Preventions: N/A

Technical measures and storage conditions: Comply with applicable with applicable regulations. Avoid creating or spreading dust. Use explosion-proof electrical, ventilating, lighting equipment. Proper grounding procedures to avoid static electricity should be allowed. Store in a dry, cool place. Keep/Store away for direct sunlight, extremely high or low temperatures and incompatible materials.

Incompatible Materials: Strong acids, strong bases, strong oxidizers.

08. Exposure controls/personal protection

Control parameters:

Cellulose (9004-34-6)		
USA ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	10 mg/m ³ (total dust) 5 mg/m ³ (respirable dust)
USA OSHA	OSHA PEL (TWA) (mg/m ³)	15 mg/m ³ (total dust) 5 mg/m ³ (respirable fraction)
Carbonic acid, calcium salt (1:1) (471-34-1)		
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	10 mg/m ³ (total dust) 5 mg/m ³ (respirable dust)
Kaolin (1332-58-7)		
USA ACGIH	ACGIH TWA (mg/m ³)	2 mg/m ³ (particulate matter containing no asbestos and <1% crystalline silica, respirable particulate matter)
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	10 mg/m ³ (total dust) 5 mg/m ³ (respirable dust)
USA OSHA	OSHA PEL (TWA) (mg/m ³)	15 mg/m ³ (total dust) 5 mg/m ³ (respirable fraction)

Personal protective equipment: Dust formation: dust mask, safety glasses

Hand protection: None required under normal product handling conditions

Respiratory protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. Use NIOSH-approved dust mask if dust has the potential to become airborne.

Eye protection: None required under normal product handling conditions

Advice on general occupational hygiene: N/A

Environmental exposure controls: Suitable eye/body wash equipment should be available in the vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment. Use local exhaust or general dilution ventilation or other suppression methods to maintain dust levels below exposure limits. Power equipment should be equipped with proper dust collection devices. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen-deficient environment. Ensure all national/local regulations are observed.

09. Physical and chemical properties

Appearance: White paperboard

Physical state: Solid

Color: N/A

Odor: N/A

Safety relevant basic data: N/A

Explosion hazard: N/A

Relative Density: 0.7 – 0.9

pH: 5.5 - 8.5

Initial boiling point/range: °C /°F N/A

Solubility: N/A

Flash point: °C /°F N/A

Ignition temperature: °C /°F N/A

Melting point: °C / °F N/A

Conditions to avoid: N/A

Incompatible materials: N/A

10. Stability and reactivity

Conditions to avoid: Dust accumulation (to minimize explosion hazard). Sparks, heat open flame and other sources of direct sunlight, extremely high or low temperatures, and incompatible materials.

Incompatible materials: Strong acids, strong bases, strong oxidizers

Hazardous decomposition products: None expected under normal conditions of use.

Reactivity: Hazardous reactions will not occur under normal conditions

Chemical Stability: Stable under recommended handling and storage conditions

Visibility of Hazardous Reactions: Hazardous polymerization will not occur

11. Toxicological information

Information on toxicological effects:

Cellulose (9004-34-6)	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rabbit	> 2000 mg/kg
LC50 Inhalation Rat	> 5800 mg/m ³ (Exposure time: 4 h)
Carbonic acid, calcium salt (1:1) (471-34-1)	
LD50 Oral Rat	6450 mg/kg
Kaolin (1332-58-7)	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rat	> 5000 mg/kg
LD50 Dermal Rabbit	> 5000 mg/kg

Skin Corrosion/Irritation: Not classified

pH: 5.5 - 8.5

Serious Eye Damage/Irritation: Not classified.

pH: 5.5 - 8.5

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Carcinogenicity: Not classified

Vinyl acetate polymer (9003-20-7)	
IARC group	3

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Dust may be harmful or cause irritation.

Symptoms/Injuries After Skin Contact: Prolonged exposure may cause skin irritation. Repeated or prolonged contact may cause mechanical irritation.

Symptoms/Injuries After Eye Contact: May cause slight irritation to eyes. May cause mechanical eye irritation.

Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects. If a large quantity has been ingested: May cause gastrointestinal irritation.

Chronic Symptoms: None known.

Irritation: N/A

Sensitization: N/A

Inhalation: Dust may be harmful or cause irritation

Practical experiences: N/A

Ingredient: N/A

12. Ecological information

Terrestrial toxicity: No data available

Aquatic toxicity: N/A

Mobility: N/A

Persistence and degradability: N/A

Bio accumulative potential: N/A

Results of PBT and vPvB assessment: N/A

Other adverse effects: N/A

13. Disposal considerations

Product: Please refer to applicable local, regional, national and international regulations.

Contaminated packaging: Avoid release to the environment

Uncontaminated packaging: N/A

14. Transport information

UN-No: N/A

Proper shipping name: N/A

Classification code: N/A

Packing group: N/A

Hazard label: N/A

15. Regulatory information

Material safety evaluation:

Regulation on combustible liquids:

Class according 2009/104/EG (BetrSichV): N/A

Water hazard class: (7732-18-5) Listed on the United States TSCA (Toxic Substances Control Act) inventory

Storage according TRGS 510 (Storage of hazardous substances in non-stationary containers): N/A

SBS Paperboard	
SARA Section 311/312 Hazard Classes	Physical hazard - Combustible dust
Cellulose (9004-34-6)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under Chemical Data Reporting Rule (formerly the Inventory Update Reporting Rule), i.e, Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 711).
Water (7732-18-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Carbonic acid, calcium salt (1:1) (471-34-1)	

Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Starch, oxidized (65996-62-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under Chemical Data Reporting Rule (formerly the Inventory Update Reporting Rule), i.e, Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 711).
Kaolin (1332-58-7)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Acrylic acid-styrene polymer (25085-34-1)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under Chemical Data Reporting Rule (formerly the Inventory Update Reporting Rule), i.e, Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 711).
Vinyl acetate polymer (9003-20-7)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under Chemical Data Reporting Rule (formerly the Inventory Update Reporting Rule), i.e, Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 711).
Sulfuric acid, aluminum salt (3:2) (10043-01-3)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
CERCLA RQ	5000 lb

15.2. US State Regulations

Cellulose (9004-34-6)	
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List	
Kaolin (1332-58-7)	
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List	
Sulfuric acid, aluminum salt (3:2) (10043-01-3)	
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List U.S. - Pennsylvania - RTK (Right to Know) List	

16. Other information

Recommended application: Store in cool place. Do not store above 104°F (40°C). Shield from direct sun exposure or fluorescent lighting to prevent discoloration. Do not store in areas that are damp or in high humidity.

Relevant R-, H-, and EUH-phrases: N/A

The information supplied in this Safety Data Sheet is designed only as a guidance for the safe use, storage, and handling of the product. This information is correct to the best of our knowledge and beliefs at the date of the publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other processes.

GH§ Full Text Phrases:

Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Comb. Dust	Combustible Dust
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Met. Corr. 1	Corrosive to metals Category 1
H290	May be corrosive to metals
H318	Causes serious eye damage
H402	Harmful to aquatic life

NPFA Health Hazard: 0- Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.

HPFA Fire Hazard: 1- Materials that must be preheated before ignition can occur.

HFPA Reactivity Hazard: 0- Material that in themselves are normally stable, even under fire conditions.

HMIS III Rating

Health: 0- Minimal Hazard- No significant risk to health

Flammability: 1 Slight Hazard

Physical: 0 Minimal Hazard