Section 1: Identification

PRODUCT AND COMPANY INFORMATION

Product Name: Poly(vinyl alcohol), copolymer
Molecular Formula: \( \{C_4H_6O_2\cdotC_2H_4O\}_x \)

Catalog Number(s): 322, 333, 334, 335, 336, 351

Company: Scientific Polymer Products, Inc.
6265 Dean Parkway
Ontario, NY 14519

Telephone: 585/265-0413
Fax: 585/265-1390
Website: www.scipoly.com

Emergency Phone Number: 800-255-3924 (CHEM TEL)

Section 2: Hazards Identification

Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910.1200 (OSHA HCS)
Combustible dust

GHS Label elements, including precautionary statements

Pictogram: None needed according to classification criteria
Signal word: Warning
Hazard statement(s): May form combustible dust concentrations in air
Precautionary statement(s): None

Hazards not otherwise classified (HNOC) or not covered by GHS
Combustible dust

To the best of our knowledge, the toxicological properties of this chemical have not been thoroughly investigated. Use appropriate procedures and precautions to prevent or minimize exposure.

Section 3: Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS Number</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poly(vinyl alcohol), copolymer</td>
<td>25213-24-5</td>
<td>100</td>
</tr>
</tbody>
</table>

Section 4: First Aid Measures

Description of first aid measures

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration.
In case of skin contact
Wash off with soap and plenty of water. If skin irritation or rash occurs, seek medical advice/attention. Wash contaminated clothing before reuse.

In case of eye contact
Rinse cautiously with water for several minutes; remove contacts if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

If swallowed
If a large amount is swallowed, get medical attention.

Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

Indication of any immediate medical attention and special treatment needed
Treat symptomatically and supportively.

Section 5: Fire-Fighting Measures

Suitable extinguishing media
Use water spray, alcohol-resistant foam, regular dry chemical or carbon dioxide.

Unsuitable extinguishing media
Do not scatter spilled material with high pressured water streams

Special hazards arising from the substance or mixture
Combustible Dust. Dust/air mixtures may ignite or explode. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Hazardous combustion products
Oxides of carbon

Advice for firefighters
Wear full protective firefighting gear including self-contained breathing apparatus for protection against possible exposure.

Firefighting measures
Avoid inhalation of material or combustion by-products. Move material from fire area if it can be done without risk. Use extinguishing agents appropriate for surrounding fire. Dike for later disposal. Stay upwind and keep out of low areas

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures
Avoid dust formation. Avoid contact with skin and eyes. Avoid breathing vapors, mist or gas. Keep unnecessary people away, isolate hazard area and deny entry. The mixture is slippery when wet. For personal protection see section 8.

Environmental precautions
Avoid generation of dust. Remove all sources of ignition. Ventilate affected area. Discharge into the environment must be avoided

Methods and materials for containment and cleaning up
Avoid generation of dust. Sweep up and shovel. Collect spilled material in appropriate container for disposal. Dispose of contents/container in accordance with local/regional/national/international regulations
Section 7: Handling and Storage

Precautions for safe handling
Use methods to minimize dust. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed. Keep container tightly closed. Wash thoroughly after handling. Avoid breathing dust. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. For precautions see section 2.

Conditions for safe storage, including any incompatibilities
Store in a closed container in a dry and cool area. Keep away from heat and sources of ignition. Keep away from food, drink, and animal feeding stuffs. Keep container tightly closed in a dry and well ventilated place.

Incompatible Materials
Reactive metals, oxidizing agents, peroxides, perchlorates, nitrates

Specific end use(s)
Laboratory chemicals, manufacture of substances

Section 8: Exposure Controls/Personal Protection

Control parameters

Components with workplace control parameters
Contains no substances with occupational exposure limit values.

Exposure controls

Appropriate engineering controls
General industrial hygiene practice.

Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
No special environmental precautions required.

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties

a) Appearance
   Form: Granular or powder
b) Odor
   Odorless
c) Odor Threshold
   No data available
d) pH
   No data available
Poly(vinyl alcohol), copolymer

Section 10: Stability and Reactivity

Reactivity
No hazard expected.

Chemical stability
Stable under recommended storage conditions.

Possibility of hazardous reactions
Hazardous polymerization will not occur

Conditions to avoid
Avoid generating dust.

Incompatible materials
Reactive metals, oxidizing agents, peroxides, perchlorates, nitrates.

Hazardous decomposition products
Oxides of carbon.
In the event of fire: see section 5

Section 11: Toxicological Information

Information on toxicological effects

Acute toxicity
LD50 Rat >5,000 mg/kg
LC50 Rat >24mg/L 1 hour
Oral LD50 Rat 6200mg/kg
Inhalation LC50 Rat 22500ppm 8hr

Immediate effects
No information on significant adverse effects

Delayed effects
No information on significant adverse effects

Irritation/corrosivity data
May cause mechanical irritation

Dermal sensitization
No data available
Respiratory sensitization
No data available

Germ cell mutagenicity
No data available

Carcinogenicity
IARC: Supplement 7 [1987]; Monograph 19 [1979] (Group 3 (not classifiable))

Reproductive toxicity
No hazard expected

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Medical conditions aggravated by exposure
No data available

Section 12: Ecological Information

Toxicity
No data available

Persistence and degradability
No data available

Bioaccumulative potential
No data available

Mobility in soil
No data available

Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects
No data available

Section 13: Disposal Considerations

Waste treatment methods

Product
Dispose of contents/container in accordance with local/regional/national/international regulations. Product is not EPA hazardous waste

Contaminated packaging
Dispose of as unused product.

Section 14: Transport Information

DOT (US)
Not dangerous goods

IMDG
Not dangerous goods
Section 15: Regulatory Information

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
No SARA Hazards

Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components
Poly(vinyl alcohol), copolymer  CAS-No.  25213-24-5

New Jersey Right To Know Components
Poly(vinyl alcohol), copolymer  CAS-No.  25213-24-5

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16: Other Information

<table>
<thead>
<tr>
<th>HMIS Rating</th>
<th>NFPA Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health: 0</td>
<td>Health: 0</td>
</tr>
<tr>
<td>Flammability: 0</td>
<td>Flammability: 0</td>
</tr>
<tr>
<td>Reactivity: 0</td>
<td>Reactivity: 0</td>
</tr>
</tbody>
</table>

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