

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

Product Identifier

Product Form: Mixture
Product Name: DUCT SEAL

Intended Use of the Product

Sealing HVAC ductwork leaks only

Emergency Telephone Number

Emergency number: 937-428-9300

Manufacturer details

Aeroseal LLC
7989 S Suburban Road
Centerville, OH 45458
Tel: 1-877-349-3828
www.aeroseal.com

SECTION 2: HAZARDS IDENTIFICATION

Emergency Overview

Appearance: Milky white solution

Physical state: Liquid

Odor: Sweet

This product is a stable dispersion of very small polymer particles in water, surfactants, hydrocolloid stabilizers, and minor amounts of inorganic salts.

Potential Health Effects

Exposure Routes

Inhalation

Skin Contact

Eye Contact

Ingestion

Aggravated Medical Condition

Inhalation, skin / eye contact, ingestion

May cause irritation to respiratory tract

May cause slight skin irritation

May cause slight eye irritation

Unknown – Safe handling and hygiene practices are recommended to avoid ingestion

Pre-existing disorders of the following organs (or organ systems) may be aggravated by exposure to this material – skin, upper respiratory tract, lung (for example, asthma-like conditions)

Symptoms

Signs and symptoms of exposure to this material through breathing, swallowing, and/or prolonged contact of the material through the skin may include, stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), lung irritation, central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness), difficulty in breathing, lung edema (fluid buildup in the lung tissue)



SECTION 3: COMPOSITION

Name	CAS No.	%(w/w)
Vinyl Acetate Copolymer	Trade Secret	35% max
Vinyl Acetate Monomer	108-05-4	~ 0.019% <0.0093% (after application – when dried)

SECTION 4: FIRST AID MEASURES

General

Never give anything by mouth to an unconscious person. If you feel discomfort, seek medical advice (show the label where possible).

Inhalation

Not expected to present a significant inhalation hazard under anticipated condition of normal use. When symptoms occur, move exposed person to fresh air at once. Administer artificial respiration if breathing has stopped. Keep at rest. Call for medical attention.

Skin Contact

Not expected to require first aid measures. Immediately flush contaminated skin with water and wash with soap and water.

Eye Contact

Immediately flush with water for at least 15 minutes with eyelids apart to ensure irrigation of eye and lid tissues. Remove contact lenses, if present. Get medical help if redness, pain, or irritation persists.

Ingestion

Rinse mouth. Small ingested amounts are not expected to produce adverse health effects. Amounts larger than 1 fl. oz. should be recovered from stomach by aspiration. Immediately call a POISON CENTER or doctor/physician.

Most Important Symptoms and Effects

General	Effects of exposure (inhalation or ingestion or skin contact) to substance may be delayed
Inhalation	In large amounts may cause irritation in respiratory tract
Skin Contact	Product is not irritating to skin
Eye Contact	Redness and blurred vision
Ingestion	Unknown

SECTION 5: FIREFIGHTING MEASURES

Fire Hazard	Product is not flammable
Explosion Hazard	Product is not explosive
Extinguishing Media	Use extinguishing media appropriate for surrounding fire or dry chemical, Carbon-dioxide (CO ₂). Exercise same caution as when fighting any chemical fire. Do not enter fire area without proper protection gear, including eye and respiratory protection.
Unusual Hazards	When polymer burns, water, carbon-dioxide, carbon monoxide, and smoke are produced. Pyrolysis products may include such materials such as acetic acid, acrolein, and acetaldehyde.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Prevent additional discharge of material, if possible to do so without hazard. Soak up small spills with sand, earth absorbent or inert material. Scoop up and place in clean, dry, and marked container. Flush away residue with large quantities of water. Pump large spills into marked containers for prompt disposal.

Personal Precautions, Protective Equipment and Emergency Procedure

Refer to Section 8 for personal protective equipment (PPE)

For Emergency Personnel

Equip clean-up crew with proper protection
Ventilate area

SECTION 7: HANDLING AND STORAGE**Precaution for Safe Handling**

Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Do not eat, drink or smoke when using this product. Wash hands and forearms thoroughly after handling.

Conditions for Safe Storage, Including Any Incompatibilities

Store away from heat and strong oxidizing agents and acids. Use in well-ventilated areas only. Keep product in original container and at above 32°F.

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION**Exposure Controls**

Ventilation Ventilation is always recommended to maintain the vapor concentration below the ACGIH TWA (10ppm Vinyl acetate)

Personal Protective Equipment

Respiratory Protection Use NIOSH/ MSHA approved filter or respirator where vapor or mist is generated

Eye Protection Wear safety glasses with side shields or chemical goggles, if splash may occur

Protective Gloves Chemically resistant gloves to minimize skin contact



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Chemical and Physical Properties

Physical State	Liquid
Appearance	Milky white
Odor	Sweet
Odor Threshold	Not available
pH	3.8-4.2
Relative Evaporation Rate	Not available
Melting Point	Not available
Freezing Point	<0°C (32°F)
Boiling Point	100°C (212°F)
Flash Point	Does not Flash below boiling point
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Flammable (solid, gas)	Not available
Lower Flammable Limit	Not available
Upper Flammable Limit	Not available
Vapor Pressure	17.54 mm Hg @ 20°C (68°F)
Relative Vapor Density at 20°C	Not available
Relative Density	0.98-1.05 @ 25°C (77°F)
Density	8.2-8.8 lb/gal
Specific Gravity	Not available
Solubility	Water: soluble 20°C (68°F)
Low Pow	Not available
Low Kow	Not available
Viscosity, Kinematic	Not available
Viscosity, Dynamic	>1 @ 20°C (68°F)
Explosion Data – Sensitivity to Mechanical Impact	Not available
Explosion Data – Sensitivity to Static Discharge	Not available

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability

Product is stable.

Conditions to Avoid

Coagulation may occur following freezing, thawing, or boiling. Avoid direct sunlight or extremely hot or cold conditions.

Incompatible Materials

Strong oxidizers, bases, alkali materials such as sodium or metal hydrides.

Hazardous Reactions

Product will not undergo hazardous polymerization.

Hazardous Decomposition Products

When polymer burns, water, carbon dioxide, carbon monoxide, and smoke are produced. Pyrolysis products may include acetic acid and irritating toxic fumes.

SECTION 11: TOXICOLOGICAL INFORMATION

Product: Duct Seal

Acute Toxicity	Not classified
LD50 and LC50 Data	Not available
Skin Corrosion/Irritation	Not Classified
pH	3.8-4.2
Serious Eye Damage/Irritation	Not classified
Respiratory or Skin Sensitization	Not classified
Germ Cell Mutagenicity	Not classified
Teratogenicity	Not available
Carcinogenicity	Not classified
Specific Target Organ Toxicity (Repeated Exposure)	Not classified
Aspiration Hazard	Not classified
Symptoms/Injuries After Inhalation	Inhalation in large amounts may cause irritation
Symptoms/Injuries After Skin Contact	Product is not irritating to skin
Symptoms/Injuries After Eye Contact	Product not considered to be irritating to eyes, but may cause redness or blurred vision
Symptoms/Injuries After Ingestion	May be harmful if ingested in large quantities

Ingredient: Vinyl Acetate Monomer (108-05-4)

LD50 Oral Rat	2920 mg/kg
LD50 Dermal Rat	2320 mg/kg
LC50 Inhalation Rat	11400 mg/m ³ (Exposure time: 4h)
ATE (dust, mist)	1.5 mg/l/4h

SECTION 12: ECOLOGICAL INFORMATION

Product: Duct Seal

Toxicity	Not classified
Mobility in soil	No data available

Ingredient: Vinyl Acetate Monomer (108-05-4)

LC50 Fish1	14mg/l (Exposure time 96h- Species: Pimephales promelas [static])
LC50 Fish2	15.04-21.54 mg/l (Exposure time: 96h- Species: Lepomis macrochirus [static])
Log Pow	0.73

Other Information: Avoid release to environment.

SECTION 13: DISPOSAL CONSIDERATION

Dispose of waste material in accordance with all local, regional, national, provincial, territorial, and international regulations.

SECTION 14: TRANSPORT INFORMATION

In Accordance with D.O.T.	Not Regulated
In Accordance with IMDG	Not Regulated
In Accordance with IATA	Not Regulated
In Accordance with TDG	Not Regulated
Unit Container	1 Gallon

SECTION 15: REGULATORY INFORMATION

	HMIS Hazard Rating
Health	1
Flammability	0
Physical Hazard	0
Personal Protection	E (safety glasses, gloves, mask)

HMIS Legend:

0: Minimal Hazard
 1: Slight
 2: Moderate
 3: Serious
 4: Severe
 Refer to HMIS III by ACA for exact definition

	NFPA Fire Diamond
Health	1
Flammability	0
Instability/Reactivity	0
Special Notice	N/A

NFPA Legend:

0: No Hazard
 1: Slight
 2: Moderate
 3: Serious
 4: Severe
 Refer to NFPA 704 standard for exact definition

U.S. Federal Regulations

Product: Duct Seal

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

Ingredient: Vinyl Acetate Monomer (108-05-4)

Listed on the United States TSCA inventory
 Listed on SARA Section 302
 Listed on SARA Section 313
 SARA Section 302 – Threshold Planning Quantity (TPQ): 1000
 SARA Section 313 – Emission Reporting: 0.1%

Notification status

United States. TSCA list	Y (Positive listing)
Canada. Canadian Environmental Protection Act Domestic Substances List (DSL) (Can. Gaz. Part II, Vol. 133)	Y (Positive listing)
Australia. Industrial Chemical (Notification and Assessment) Act	N (Negative listing)
Japan. Kashin-Hou Law List	N (Negative listing)
Korea. Toxic Chemical Control Law (TCCL) list	N (Negative listing)
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	N (Negative listing)
China. Inventory of Existing Chemical Substances	N (Negative listing)

SECTION 16: OTHER INFORMATION

Document Prepared by: Aeroseal LLC (Tel- 1-877-349-3828)

This document has been prepared in accordance with SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 (g). The information provided herein is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. The information related only to the specific material designated and may not be valid for such material used in combination with other materials or in any processes, unless specified in the text.

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