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SECTION 1: IDENTIFICATION

1.1 Product Identifier

Product Name: High Performance Silicone Sealant.
Product Code: Not Available.

1.2 Recommended Use of Chemical & Restrictions on Use

Recommended Use: Used for making joints, sealing and gluing.
Restrictions on Use: Specially Formulated and Approved for the PalDuct Phenolic Pre-insulated Ductwork System.
Registration Numbers: These Polymers are not concerned by the EINECS Inventory. All the other constituents of this preparation are registered in the EINECS inventory. All the components of this preparation are registered in the TSCAI.

1.3 Details of the Supplier of the SDS

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SECTION 2: HAZARD(S) IDENTIFICATION

2.1 Potential Health Effects

Eye: Slight Eye Irritation: Signs / symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Skin: Causes mild skin irritation. Symptoms may include localized redness, swelling and itching.

Inhalation: Symptoms may include cough, sneezing, nasal discharge, headache, and nose and throat pain.

Ingestion: May cause gastrointestinal irritation if ingested. May cause abdominal pain, diarrhea, nausea and vomiting.

2.2 Additional Information

Environmental Effects: Presents no particular risk to the environment provided the disposal requirements (see Sec. 13) and national or local regulations are complied with.

Physical & Chemical Hazards

Fire or Explosion: Combustible.
Further Hazards: On contact with humidity, irritating vapors are released.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Mixtures

Ingredient	CAS No	Wt/ %
Polydimethylsiloxanes, amorphous silica and cross linker. Components presenting hazards: Alkytricaetoxysilanes	4253-34-3 & 176689-77-9	< 5%
During use Acetic Acid is released	764-19-7	

**The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of § 1910.1200.*

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measure

Eye: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get immediate medical advice / attention.

Skin: In case of contact, immediately skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and keep at rest in a position comfortable for breathing. Get medical attention if condition worsens.

Ingestion: If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get immediate medical advice / attention.

**The above first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.*

SECTION 5: FIRE FIGHTING MEASURES

5.1 Extinguishing Media

Suitable Media: Dry chemical powder, CO2, foam and Water.

Unsuitable Media: Not available.

5.2 Special Hazards arising from the Product

Products of Combustion: May include, and are not limited to: oxides of carbon.

Flammability: Toxic and highly flammable gases are released (Explosions hazard) hazardous dust is released.

Explosion Data:

Sensitivity to Mechanical Impact: Not available.

Sensitivity to Static Discharge: Not available.

5.3 Special Protective Equipment & Precautions for Firefighters

Precautions: Cool down the containers / equipment exposed to heat with a water spray

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment & Emergency Procedures

Personal Protection: See Section 8.

Protective Equipment: Not available.

Emergency Procedures: Avoid contact with skin and eyes. Do not breathe vapors protective equipment. For further information refer to section 8. Mechanically ventilate the spillage area.

6.2 Methods & Materials for Containment & Cleaning Up

Method for Containment: This product does not present any particular risk for the environment.

Methods for Cleaning-Up: Scoop up material and place in a disposal container. Label the container. Provide adequate ventilation. Wash the functional surface with an appropriate self-emulsifying solvent. Wash with water to reduce the risk of slipping. For disposal of solid materials, refer to section 13.

SECTION 7: HANDLING & STORAGE

7.1 Precautions for Safe Handling & Conditions for Safe Storage

Handling: Do not breathe gas / fumes / vapor / spray. Handle and open container with care. Use only in well-ventilated areas to prevent irritation due to fumes. During application and curing the product releases acetic acid. Wear protective gloves / protective clothing /

eye protection / face protection. When using do not eat or drink. Wash hands before eating, drinking or smoking. (See section 8)

Storage:

Keep container in well-ventilated area. Keep container tightly closed. Store out of direct sunlight, heat, and keep away from strong oxidizing agents, polyethylene liner in a metal drum varnished with Epitoke, polyethylene cartridges.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Exposure Guidelines - Occupational Exposure Limits

Ingredient	OSHA-PEL	ACGIH-TLV
Acetic Acid	Not available.	37 mg/m ³ (15ppm)

8.2 Exposure Controls

Engineering Controls: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits. Measure the concentration in the atmosphere.

8.3 Individual Protection Measures – Personal Protective Equipment (PPE)

Personal Protective Equipment:

Eye / Face Protection: In absence of technical equipment that makes the workplace well aired, wear approved eye protection (properly fitted dust- or splash-proof chemical safety goggles) and face protection (face shield). An eye fountain should be provided on-site.

Skin Protection:

Hand Protection: Wear chemical-resistant gloves made of rubber.

Body Protection: Not available.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment with gas filter. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

General Health and Safety Measures: Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking.

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

9.1 Information on Basic Physical & Chemical Properties

Appearance: Paste.

Color: Translucent or pigmented.

Odor: of vinegar.

Odor Threshold: Not available.

Physical State:	Thixotropic Paste.
pH:	Not available.
Melting Point/Freezing Point:	Not available.
Initial Boiling Point and Boiling Range:	Not available.
Flash Point:	> 150°C (>302°F)
Evaporation Rate:	Not available.
Flammability:	Not Flammable.
Lower Flammability/Explosive Limit:	Not available.
Upper Flammability/Explosive Limit:	Not available.
Vapor Pressure:	Not available.
Vapor Density:	Not available.
Relative Density/Specific Gravity:	Approximately 1040 kg/m ³ at 25 °C.
Solubility in water:	Insoluble.
Solubility in organic solvents:	Insoluble in acetone and alcohol. Dispersible (partial solubilisation) in petrol, white spirit, aromatic hydrocarbons (toluene, Xylene), chlorinated solvents
Partition coefficient: n-octanol/water:	Not available.
Auto-ignition Temperature:	Not available.
Decomposition Temperature:	> 200 °C.
Viscosity:	Not available.
Oxidizing Properties:	Non oxidizing material according to EEC criteria.
Explosive Properties:	Not available.

SECTION 10: STABILITY & REACTIVITY

Reactivity:	None known.
Chemical Stability:	Stable at room temperature provided it is not in contact with air. Vulcanizes at room temperature on contact with moisture in the air.
Conditions to Avoid:	No dangerous reactions known under normal conditions of use.
Incompatible Materials:	None known.
Hazardous Decomposition Products:	During vulcanization, acetic acid is released. (Quantity potentially released: 2.4% of product weight). On combustion forms: Carbon oxides (CO + CO ₂) (Silica).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Likely Routes of Exposure

Skin contact, eye contact, inhalation, and ingestion.

11.2 Symptoms Related to the Physical, Chemical & Toxicological Characteristics`

Eye:	May cause slight temporary irritation to ocular mucous membranes.
Skin:	Repeated or prolonged contact may cause slight irritation to the skin
Ingestion:	May cause stomach distress, nausea or vomiting.
Inhalation:	At high concentrations, the vapors can be irritating to the respiratory system.

11.3 Delayed, Immediate & Chronic Effects of Short & Long Term Exposure

Not available.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:	Effects on the aquatic environment: Acetic Acid: EC 50 (Daphnia: Daphnia magna)/24h:150mg/l LC 50 (Fish:Princphales promelas)/96h:88mg/1.
Persistence & Degradability:	Not biodegradable.
Bioaccumulative Potential:	Not bioaccumable.
Mobility in Soil:	Slightly soluble product, readily forms deposits.
Other Adverse Effects:	Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

This material must be disposed of in accordance with all local, state, provincial and federal regulations at a licensed waste collection point.

13.2 Contaminated Packaging

Decontamination / Cleaning:	Separate the different packaging components and treat them separately.
Destruction / Disposal:	Incinerate plastic packaging at a licensed installation. Entrust the uncontaminated packaging to a licensed waste contractor. Following decontamination, reuse or recycle metal packaging, disposable containers. Incinerate at a licensed installation.

NOTE: The user's attention is drawn to the possible existence of local regulations.

SECTION 14: TRANSPORT INFORMATION

14.1 UN Number

DOT: Not regulated.
TDG: Not regulated.

14.2 UN Proper Shipping Name

DOT: Not applicable.
TDG: Not applicable.

14.3 Transport Hazard Class (ES)

DOT: Not applicable.
TDG: Not applicable.

14.4 Packing Group

DOT: Not applicable.
TDG: Not applicable.

14.5 Environmental Hazards

Not available.

14.6 Transport in Bulk According to Annex II of MARPOL 73/78 & the IBC Code

Not applicable.

14.7 Special Precautions for User

The above regulatory prescriptions are those valid on the date of publication of this sheet. Given the possible evolution of transport regulations for hazardous materials, it would be advisable to check their validity with your sales office.

SECTION 15: REGULATORY INFORMATION

15.1 Labelling

EEC Regulations: Mandatory labelling (self-classification) of hazardous preparations: N/A.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these.

SECTION 16: OTHER INFORMATION

General

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Prepared by: **PAL SYSTEM INTERNATIONAL FZCO**
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