Effective Date: January 01, 2026

SECTION 1: Identification of the substance/mixture and the company/undertaking

1.1 Product identifier

Product Description : Silica Gel Desiccant

Item Code : 5203, 5230, 5231, 5232, 5234 and 5236

1.2. Relevant identified uses of the substance or mixture and uses advised against

Product Use : Use as desiccant/dry agent in the shipping containers to keep cargo dry

Valid active period : The products keep absorbing and active for more than 60 days in the ocean voyage.

Chemical Families : (1) Calcium Chloride (Food Grade)
(2) Amylopectin (Food Grade)

1.3 Details of the supplier of the safety data sheet

Company : PRIMEPAC INDUSTRIAL LTD
45 Noel Burnside Road, Wiri, Auckland,
New Zealand.
Tel: +64 800 277772

SECTION 2: Ingredients Information

No	Component	Ingredient Name	CAS	ACGIH/TLV
1	Absorbent : Calcium Chloride Amylopectin	 Calcium Chloride anhydrous (Food Grade) Amylopectin (Food Grade)	 010043-52-4 9037-22-3	 18 mg/cu.in. N/A
2	Package material : Non-Woven Laminated non-woven Plastic bag	 Laminated Non-woven Laminated Fabric & Non-woven Polypropylene	 N/A N/A N/A	 N/A N/A N/A

SECTION 3: Hazards identification

None of ingredients classified as hazardous under the OSHA Hazard Communication Standard

Route of entry : Inhalation, skin contact, ingestion, eye contact.

Precautionary measures : Do not get in eyes, on skin, on clothing. Wash thoroughly after handling. Avoid prolonged or repeated inhalation of dust or skin contact. Slip hazard when wet.

Primary Route(s)of Entry : Inhalation

Signs and Symptoms of Exposure	: Eye contact may produce slight irritation and/or redness. Inhaled dust may cause some respiratory irritation.
Carcinogenicity	: Not listed as a carcinogen by IARC, NTP, OSHA, or ACGIH. There is no evidence that this product poses a carcinogenic risk under normal conditions of handling and use.
Medical Conditions Aggravated by Exposure	: Existing respiratory conditions

SECTION 4: First aid measures

Under normal conditions, Tyvek – plastic containers will not allow products to create exposure hazards. No special precautions are required when containers remain intact. If containers are compromised, or if containers are exposed to hazards that will allow compromise, the active components can be irritating, the following precautions should be observed:

Inhalation	: Remove to fresh air immediately. If breathing has stopped, give artificial respiration. Keep the affected person warm and at rest. Get medical attention immediately.
Ingestion	: If large amounts have been ingested, give emetics to cause vomiting. A stomach siphon may be applied as well. Milk and fatty acids should be avoided. Get medical attention immediately.
Eyes contact	: Wash eyes immediately and carefully for 15minutes with running water, lifting upper and lower eyelids occasionally. Get prompt medical attention.
Skin contact	: To avoid repeated or prolonged contact with this chemical, use good hygienic practices. Wash with soap and a large amount of water. Get medical attention if irritation or inflammation develops.
Additional information	: The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. This company shall not be held liable for any inaccuracies.

SECTION 5: Firefighting Measures

Sensitivity to Mechanical Impact	: None
Flammability	: Non-flammable solids, liquids, or gases.
Conditions of flammability	: At temperatures at or above the flash point.
Extinguishing media	: Dry chemical, Carbon dioxide, water spray, or foam. For larger fires, use water spray fog or foam. Do not use a direct water jet.

Fire Fighting Equipment	: No special procedures. However, wetted product presents a slip hazard. Pedestrian and vehicular traffic must proceed with caution where wet products may exist.
Extinguishing Media to Avoid	: Water may create a slip hazard with the product.
Hazardous Combustion Products	: Oxides of carbon and nitrogen.
Emergency Response Guidebook Information	: No ERG# number indicated. Handle as combustible material
Special procedures	:

- Self-contained breathing apparatus required.
- Firefighters should wear the usual protective gear.
- Do not spray water directly on burning material, it may float and spread the fire.
- Cool containers that are exposed to flames with water from the side until well after the fire is out.
- For massive fire in an enclosed area, use an unmanned hose holder or monitor nozzles; if this is impossible, withdraw from the area and let the fire burn. Withdraw immediately in case of rising sound from venting safety device or any discoloration of the tank due to fire.

SECTION 6: Accidental release measures

Under normal conditions, Tyvek – Plastic container will not allow the product to create exposure hazards. No special precautions are required when containers remain intact. If containers are compromised, or if containers are exposed to hazards that will allow compromise, the active components can be irritating, the following precautions should be observed :

Accidental Release Measures	: The product becomes slippery and difficult to handle when wet; spills are best handled while still dry. Sweep up and collect dry products. Recovered products may be used per label instructions. Absorb wet product with vermiculite or other inert material and contain for disposal; may allow absorbed product to air dry before disposal. Floors and similar surfaces may be water-washed to further remove slip hazards.
Notify safety personnel of spills or leaks	:

- Clean-up personnel need protection against inhalation of dusts or fumes.
- Eye protection is required.
- Place in appropriate containers for disposal. Flush spill area with water.
- If slipperiness remains apply more dry-sweeping compound. Prevent liquid entering sewers
- Keep airborne particulates at a minimum level.

SECTION 7: Handling and storage

Handling procedures and equipment :

- Good personal hygiene practices can reduce potential exposure.
- Use adequate ventilation.
- Wash thoroughly after using, particularly before eating or smoking. Keep out of reach of children.
- Avoid contact with skin, eyes, and clothing.
- Wear suitable protective clothing. Do not take it internally.
- Avoid breathing vapor, fumes, or mist. Launder contaminated clothing before reuse.

Storage Precautions :

- Store in a dry and well-ventilated place.
- Store below 115°F (46°C). Keep away from a heat source.
- Keep in a tightly closed container (when not in use). Protect the container from physical damage.
- Always reseal the container and protective moisture barrier liner after use.
- Store away from incompatible materials. (see section 10)

SECTION 8: Exposure controls/personal protection

Under normal conditions, Tyvek - Plastic container will not allow the product to create exposure hazard. Notify safety personnel of spills or leaks.

Occupational exposure limits : No values have been established.

Engineering measures : Engineering controls are not usually necessary if good hygiene practices are followed.

Respiratory Protection : Provide a NIOSH/MSHA jointly approved respirator in the absence of proper environmental control. Contact your safety equipment supplier for the appropriate mask type. IHG for the calcium salt is 10 mg/cumin.

Ventilation : Provide general and/or local exhaust ventilation to keep exposures below the TLV. Ventilation must be designed to prevent spots of dust accumulation or recycling of dust.

Protective Clothing : Wear protective clothing, including long sleeves and gloves, to prevent repeated or prolonged skin contact. Specific protective clothing is not required unless the contents of the bag are exposed.

Eye Protection : Chemical splash goggles designed in compliance with OSHA regulations are recommended.
Consult your safety equipment supplier.

Additional Information : Provide eyewash station (s). Select additional protective equipment (e.g. Apron, face shield, etc.), depending on the condition of use.

SECTION 9: Physical and chemical properties

Appearance and Odor: Small white hygroscopic granules mixed with off-white powder. No specific odor

Properties	Calcium Chloride	Amylopectin
Physical State	Solid	Solid
Boiling Point	1600 °C	125 °C
Solubility in Water	Freely Soluble	Soluble, Solubility limited by viscosity
Vapor pressure (mm Hg)	N/A	N/A
Vapor density	N/A	N/A
Bulk Density	2.15 gr/cm^3 @ 20 °C	1.122 gr/cm^3 @ 30 °C
Melting Point	782 °C	84. 5 °C
% Volatile By Weight @ 1750 0F	N/A	N/A
Evaporation rate	N/A	N/A
pH	8-9 Aqueous solution	≈ 6 for 1 % solution

SECTION 10: Stability and reactivity

Chemical Stability : Stable under ordinary conditions of use and storage.

Incompatible materials :

- Sulfuric acid (yields hydrogen chloride gas, which is corrosive, irritating & reactive).
- Water-reactive materials, such as sodium (cause an exothermic reaction). Methyl vinyl ether (starts runaway polymerization reaction).
- Zinc as in galvanized iron (yields hydrogen gas with solutions, which may explode under these conditions.
- Strong oxidants such as liquid chlorine, enriched gaseous or liquid oxygen, and sodium or calcium hypochlorite.

Hazardous Decomposition Products : Thermal decomposition or combustion may produce oxides of carbon and nitrogen, various hydrocarbons, and/ or ammonia which may be irritating or harmful. The addition of alkaline compounds may result in ammonia cal compounds.

Hazardous Polymerization : Will not occur

SECTION 11: Toxicological information

$CaCl_2$	: LC50/ 96hr values for fish are over 100mg/l
Amylopectin	:

- Oral LD50 (rat): N/A > 5000 mg/kg (actual)
- Dermal LD50 (rabbit): N/A > 10000 mg/kg (actual)
- Inhalation LC50 (4-hour rat): N/A > 20.0 mg/L (estimated)
- Skin Irritation (rabbit): Not irritating

Eye Irritation (rabbit)	: Not irritating
Dermal sensitization	: Not sensitizing
Inhalation sensitization	: Not sensitizing
Carcinogenicity	: Not listed as a carcinogen by IARC, NTP, OSHA, or ACGIH
Reproductive Toxicity	: No data for the product. No effects are anticipated.
Teratoginicity	: No data for the product. No effects are anticipated.
Mutagenicity	: No data for the product. No effects are anticipated.
Toxicologically Synergistic Products	: None known.

SECTION 12: Ecological information

Environmental Fate	: Non-biodegradable or bioaccumulate
Ecotoxicity	: Not ecotoxic

SECTION 13: Disposal considerations

Waste disposal	: Consult applicable local, state, and federal regulations to select the method of disposal. Recover metal components by reprocessing whenever possible.

SECTION 14: Transport information

TDG classification	: Not regulated.
Special shipping information	: See transportation information. Not classified as hazardous for transport.

SECTION 15: Regulatory Information

MARKING AND LABELING

Not classified as hazardous for supply.

SYMBOL : none required
RISK PHRASES : None
SAFETY PHRASES : Spills are very slippery when wet

EU symbol for irritating (Xi)

SECTION 16: Other Information

Personal Protection : HMIS assigns a choice of personal protective equipment to the customer, as the raw material supplier is unfamiliar with the condition of use.