Material Safety Data Sheet HYDRATED LIME

SECTION 1: PRODUCT INFORMATION

Product Name: Hydrate Lime

Product Use/s: Water treatment, pH adjustment, FGT, Construction, Pulp/Paper

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS	Conc. (%)
Calcium Hydroxide, Ca(OH)2 Hydrated Lime	1305-62-0	> 90
Magnesium Oxide, MgO	1309-48-4	< 1
Crystalline Silica, SiO2	14808-60-7	< 1

SECTION 3: HAZARDS IDENTIFICATION

Emergency Overview: Hydrate is an odorless white or grayish-white powder. Contact can cause irritation to eyes, skin, respiratory system, and gastrointestinal tract.

Potential Health Effects

Eyes: Contact can cause severe irritation or burning of eyes, including permanent damage.

Skin: Contact can cause irritation of skin.

Ingestion: This product can cause severe irritation of gastrointestinal tract if swallowed.

Inhalation: This product can cause severe irritation of the respiratory system.

Long-term exposure may cause permanent damage. Hydrate is not listed by MSHA, OSHA, or IARC as a carcinogen. However, inhalation of **silica** can also cause a chronic lung disorder, silicosis.

Environmental Effects:

This material is alkaline and if released into water or moist soil will cause an increase in pH

SECTION 4: FIRST AID MEASURES

Eyes: Immediately flush eyes with generous amounts of water or eye wash solution if water is unavailable. Pull back eyelid while flushing to ensure that all lime dust has been washed out. Seek medical attention promptly if the initial flushing of the eyes does not remove the irritant. Do not rub eyes

Skin: Brush off or remove as much dry lime as possible. Wash exposed area with large amounts of water. If irritation persists, seek medical attention promptly.

Inhalation: Move victim to fresh air. Seek medical attention. If breathing has stopped, give artificial respiration.

Ingestion: Do not induce vomiting. Seek medical attention immediately. Never give anything by mouth unless instructed to do so by medical personnel.

SECTION 5: FIRE FIGHTING & ACCIDENTAL RELEASE MEASURES

Combustion Products: None

Fire Hazards: Hydrate is not combustible or flammable. However, hydrate reacts vigorously with acids, and may release heat sufficient to ignite combustible materials in specific instances.

Hydrate is not considered to be an explosion hazard, although reaction with acids or other incompatible materials may rupture containers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Containment: Minimize dust generation and prevent bulk release to sewers or waterways.

Clean-up: Residual amounts of material can be flushed with large amounts of water.

Spills: Use dry methods to collect spilled materials. Avoid generating dust. Do not clean up with compressed air. Store collected materials in dry, sealed plastic or non-aluminium metal containers. Residue on surfaces may be water washed.

SECTION 7: HANDLING AND STORAGE

Handling: Keep in tightly closed plastic or non-aluminium metal containers. Protect containers from physical damage. Avoid direct skin contact with the material.

Storage: Store in a cool, dry, and well-ventilated location. Do not store near acids or other incompatible materials. Keep away from moisture. Do not store or ship in aluminium containers.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Provide ventilation adequate to maintain PELs.

Respiratory Protection: Use NIOSH/MSHA approved respirators if airborne concentration exceeds PELs.

Skin Protection:	Use appropriate gloves and footwear to prevent skin contact. Clothing should fully cover arms and legs. Should lime get inside clothing or gloves, remove the clothing and the lime promptly.
Eye Protection:	Use safety glasses with side shields or safety goggles. Contact lenses should not be worn when working with lime products.
Other:	Eye wash fountain/stations and emergency showers should be available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White or grayish-white powder	Odour: Odourless
Specific Gravity:	0.38-0.4 g/cc	Physical State: Solid
Solubility in water:	Slightly soluble in water	PH: 12 – 12.4

SECTION 10: STABILITY AND REACTIVITY

Hazardous Decomposition Products: None
Hazardous Polymerization: None
Stability: Chemically stable, but slowly reacts with carbon dioxide to form calcium carbonate.

Incompatibility/ Conditions to Avoid: Hydrate should not be mixed or stored with the following materials, due to the potential for vigorous reaction and release of heat: Acids, Fluoridated Compounds, Nitro-Organic Compounds, Phosphorous Compounds, Reactive Powdered Metals

SECTION 11: TOXICOLOGICAL INFORMATION

Hydrated Lime is not listed by MSHA, OSHA, or IARC as a carcinogen, but this product may contain trace amounts of crystalline silica, which has been classified by IARC as carcinogenic to humans when inhaled in the form of quartz or crystobalite.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: Because of the high pH of this product, it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems in high concentrations.

Environmental Fate: This material shows no bioaccumulation effect or food chain concentration toxicity.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with all applicable local environmental regulations. If this product as supplied, and unmixed, becomes a waste, it will not meet the criteria of a hazardous waste.

SECTION 14: TRANSPORTATION INFORMATION

GCC is not coverde by the international regulation on the transport of dangerous (IMDG, IATA, ADR/RID) and therefore no classification is required.

UN Number	: None allocated
Proper Shipping Name	: None allocated
Class and Subsidiary Risk	: None allocated
Packing Group	: None allocated
Special precautions for user	: None allocated
Hazchem Code	: None allocated

SECTION 15: REGULATORY INFORMATION

Goods is not classified as Dangerous Goods
Exposures by inhalation to high levels of dust may be regulated under the Hazardous Substances. Persons who have potential for exposure to respirable crystalline silica dust above

SECTION 16: OTHER INFORMATION

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