

MATERIAL SAFETY DATA SHEET for GARDSEAL

Section 1 – Manufacturer Information

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Section 2 – Hazardous Ingredients

Hazardous Ingredients:

Sodium Silicate (Silica Acid, Sodium Salts)
CAS #1344-09-8

OSHA PEL:

N/A

ACGIH TLV:

Other Limits:

Contents (%)

GENERAL INFORMATION: To the best of our knowledge the information contained herein is correct. Lambert Corporation of Florida, Inc. assumes no responsibility for accuracy or completeness. User is responsible for suitability.

FOR INDUSTRIAL USE ONLY.

HMIS Rating: Health - 1 Flammability - 0 Reactivity - 0 Personal Protection - 0

Section 3 – Physical/Chemical Characteristics

Boiling Point: 760 mm hg CA 110° 230 °F
Vapor Pressure (mm Hg.): NONE
Vapor Density (AIR = 1): NONE
PH 8.5

Specific Gravity (H2) = 1): ca 141
Melting Point: a 10°C (50°)
Evaporation Rate (Butyl Acetate = 1): NONE

Solubility in Water: COMPLETE SOLUBLE
Appearance and Odor: VISCOUS, CLEAR TO MILKY LIQUID, NO ODOR

Section 4 – Fire and Explosion Hazard Data

Flash Point (Method Used): NON-FLAMMABLE
Extinguishing Media: NO FIRE HAZARD

Flammable Limits In air % by volume:
NONE

LEL
NONE

UEL
NONE

Special Fire Fighting Procedures : AVOID CONTACT WITH THIS MATERIAL. WASH AWAY ANY MATERIAL WHICH MAY HAVE CONTACTED THE BODY WITH PLENTY OF WATER. SODIUM SILICATE IS VERY SLIPPERY. AVOID WALKING IN SPILLED MATERIAL IF POSSIBLE. WEAR PROTECTIVE CLOTHING FOR SKIN AND EYES.

Unusual Fire and Explosion Hazards: NONE

Section 5 – Reactivity Data

Stability: Stable Unstable

Conditions to Avoid: HEAT IS GENERATED WHEN MIXED WITH STRONG ACIDS, WITH ALUMINUM, COPPER, LEAD OR ZINC.

Incompatibility (Materials to Avoid): AVOID ACIDS WHICH CAUSE MATERIAL TO TURN TO GELATIN IF NOT SUFFICIENTLY DILUTED. ALSO AVOID COPPER, ALUMINUM, AND ZINC.

Hazardous Decomposition of Byproducts:

Hazardous Polymerization: May Occur Will Not Occur

Conditions to Avoid: NONE

Section 6 – Health Hazard Data

Routes of Entry:

Eyes: IRRITANT

Inhalation: MILD IRRITANT

Skin: IRRITANT

Ingestion: NO

Health Hazards (Acute and Chronic): BURN ON EYES, MUCOUS MEMBRANES OF THE UPPER RESPIRATORY AND GASTROINTESTINAL TRACTS. OVEREXPOSURE IS AN IRRITANT TO THE SKIN. PROBABLY SLIGHTLY TOXIC BECAUSE OF HIGH ALKALINITY

Carcinogenicity: NONE

NTP: NONE

IARC Monographs: NONE

OSHA Regulated: NO

Signs and Symptoms of Exposure: OVEREXPOSURE IS AN IRRITANT TO THE EYES, SKIN AND RESPIRATORY TRACT. HIGH ALKALINITY OF PRODUCT IS CORROSIVE TO MUCOUS MEMBRANES.

Medical Conditions Generally Aggravated by Exposure: NO KNOWN EFFECTS OR OTHER ILLNESSES.

Emergency First Aid Procedures: **EYES:** FLUSH EYES & LIDS THOROUGHLY WITH WATER FOR AT LEAST 15 MINUTES. ALWAYS SEEK MEDICAL ATTENTION. **SKIN:** FLUSH SKIN THOROUGHLY WITH WATER.

INHALATION: FLUSH MOUTH AND NASAL PASSAGES THOROUGHLY WITH WATER. **INGESTION:** DRINK MILK OR WATER, THEN DILUTE VINEGAR. DO NOT INDUCE VOMITING. **CONTACT A PHYSICIAN IMMEDIATELY.**

Section 7 – Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled: MATERIAL IS SLIPPERY – KEEP SPECTATORS AWAY. ABSORB LIQUID IN SAND OR OTHER ABSORBENT INERT MATERIAL. IF SMALL SPILL, FLUSH TO SEWER WITH LARGE AMOUNTS OF WATER FOR DILUTION.

Waste Disposal Method: DISPOSE IN AN APPROVED SANITARY LANDFILL OR DILUTE WITH A LARGE VOLUME OF WATER, NEUTRALIZE WITH DILUTE ACID AND FLUSH TO SEWER. OBSERVE ALL FEDERAL, STATE AND LOCAL LAWS. NOTE: **A GEL IS FORMED ON REACTION WITH ACID WHICH IN SUFFICIENT QUANTITIES COULD PLUG SEWER LINES IF NOT SUFFICIENTLY DILUTED.**

Precautions to be Taken in Handling and Storage: VERY SLIPPERY WHEN SPILLED. KEEP SPECTATORS AWAY. WASH CONTAMINATED CLOTHING BEFORE RE-USE. IF HANDLED IN BULK, KEEP TRANSFER LINES FLUSHED OUT WITH WATER AND CLOSED WHEN NOT IN USE.

Other Precautions: NEUTRALIZING CHEMICALS: ANY ACID TO NEUTRALIZE THE HIGH ALKALINITY.

CAUTION: ALWAYS USE DILUTED ACID TO AVOID A VIOLENT REACTION. AVOID CONTACT WITH ZINC, ALUMINUM AND COPPER. STORE AWAY FROM ACIDS. CONTAMINATION OF SOLUTIONS MAY CAUSE GELLING – CAUSING A SILICA GEL.

Section 8 – Control Measures

Respiratory Protection (Type): USE NIOSH APPROVED DUST MASK IF WORKING IN A MIST.

Ventilation:

Local Exhaust: SHOULD BE ADEQUATE TO REMOVE ANY MIST THAT IS CREATED.

Mechanical (General): NONE

Special: NONE

Other: NONE

Protective Gloves: RUBBER, NEOPRENE, VINYL OR SIMILAR

Eye Protection: SAFETY GOGGLES IF POSSIBLE SPLASHING CAN OCCUR.

Other Protective Clothing or Equipment: PROTECT ALL SKIN AREAS FROM SPLASHES/CONTACT. HAVE EYEBATH AVAILABLE.

Work/Hygienic Practices: PRACTICE GOOD HOUSEKEEPING. USE GOOD PERSONAL HYGIENE.