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MATERIAL DATA SAFETY SHEET

Section 1 - Chemical Product and Company Identification
Name : POTASSIUM HYDROXIDE PELLETS GR
Code : P 2307

Section 2 - Composition, Information on Ingredients
CAS# Chemical Name: % EINECS#
1310-58-3 Potassium hydroxide 215-181-3

Section 3 - Hazards Identification
EMERGENCY OVERVIEW
Harmful if swallowed. Causes severe burns.Hygroscopic (absorbs moisture fromthe air).Air sensitive.
Potential Health Effects
Eye: Causes severe eye burns. May cause irreversible eye injury. Contact may cause ulceration of the conjunctiva and cornea. Eye damage may be delayed. Causes redness and pain.
Skin: May cause deep, penetrating ulcers of the skin. Causes severe burns with delayed tissue destruction. Causes redness and pain.
Ingestion: Harmful if swallowed. May cause circulatory system failure. May cause perforation of the digestive tract. Causes severe digestive tract burns with abdominal pain, vomiting, and possible death.
Inhalation: Irritation may lead to chemical pneumonitis and pulmonary edema. Causes severe irritation of upper respiratory tract with coughing, burns, breathing difficulty, and possible coma. Causes chemical burns to the respiratory tract. Inhalation may be fatal as a result of spasm, inflammation, edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema.
Chronic: Prolonged or repeated skin contact may cause dermatitis. Prolonged or repeated eye contact may cause conjunctivitis.

Section 4 - First Aid Measures
Eyes: Immediately flush eyes with plenty of water for at least 15 minutes,occasionally lifting the upper and lower eyelids. Get medical aid immediately.
Skin: Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Discard contaminated clothing in a manner which limits further exposure.
Ingestion: Do not induce vomiting. If victim is conscious and alert, give 2-4cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.
Inhalation: Get medical aid immediately. Remove from exposure and move tofresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
Notes to Physician:

Section 5 - Fire Fighting Measures
General Information: Wear appropriate protective clothing to prevent contact with skin and eyes. Wear a self-contained breathing apparatus (SCBA) to prevent contact with thermal decomposition products. Use water with caution and in flooding amounts. Contact with moisture or water may generate sufficient heat to ignite nearby combustible materials. May react with metals and lead tothe formation of flammable hydrogen gas.
Extinguishing Media: Use extinguishing media most appropriate for the
surrounding fire. DO NOT USE WATER!

Section 6 - Accidental Release Measures
General Information: Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions.

Section 7 - Handling and Storage
Handling: Do not allow water to get into the container because of violent reaction. Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Use only in a chemical fume hood.
Storage: Store in a cool, dry place. Store in a tightly closed container.
Corrosives area. Store under an inert atmosphere.

Section 8 - Exposure Controls, Personal Protection
Engineering Controls: Use adequate ventilation to keep airborne concentrations low.
Exposure Limits
CAS# 1310-58-3:
United Kingdom, WEL - STEL: 2 mg/m3 STEL
Belgium - STEL: 2 mg/m3 VLE
France - VLE: 2 mg/m3 VLE
Japan: 2 mg/m3 Ceiling
Malaysia: 2 mg/m3 Ceiling
Spain: 2 mg/m3 VLA-EC
Personal Protective Equipment
Eyes: Wear appropriate protective eyeglasses or chemical safety gogglesas described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin: Wear appropriate protective gloves to prevent skin exposure.
Clothing: Wear appropriate protective clothing to prevent skin exposure.
Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties
Physical State: Solid
Color: white
Odor: odorless
pH: 13.5 (0.1M aq.solution)
Solubility in water: 1120 g/l (20℃)
Specific Gravity/Density:
Molecular Formula: HKO
Molecular Weight: 56.11

Section 10 - Stability and Reactivity
Chemical Stability: Stable. Readily absorbs carbon dioxide and moisture from the air and deliquesces (to absorb atmospheric water vapor and become liquid).
Conditions to Avoid: High temperatures, incompatible materials, dust generation, exposure to air, acids, metals, organic materials, exposure to moist air or water.
Incompatibilities with Other Materials Water, metals, acid chlorides, aluminum, copper, glass, halogens, magnesium, nitro compounds, zinc, tin, acid anhydrides, nitromethane, chlorine dioxide, 2,4,6-trinitrotoluene, nitrobenzene.
Hazardous Decomposition Products Oxides of potassium, hydrogen gas.
Hazardous Polymerization Will not occur.

Section 11 - Toxicological Information
RTECS#: CAS# 1310-58-3: TT2100000
LD50/LC50: RTECS:
CAS# 1310-58-3: Draize test, rabbit, skin: 50 mg/24H Severe;
Oral, rat: LD50 = 273 mg/kg;
Carcinogenicity: Potassium hydroxide - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Other: See actual entry in RTECS for complete information.

Section 12 - Ecological Information
Not available

Section 13 - Disposal Considerations
Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information
Transport Information

	IATA	IMO	RID/ADR
Shipping Name:	POTASSIUM HYDROXIDE SOLID	POTASSIUM HYDROXIDE SOLID	POTASSIUM HYDROXIDE SOLID
Hazard Class:	8	8	8
UN Number:	1813	1813	1813
Packing Group:	II	II	II

Section 15 - Regulatory Information
European/International Regulations
European Labeling in Accordance with EC Directives
Hazard Symbols: C
Risk Phrases:
R 22 Harmful if swallowed.
R 35 Causes severe burns.
Safety Phrases:
S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
WGK (Water Danger/Protection)
CAS# 1310-58-3: 1
Canada
CAS# 1310-58-3 is listed on Canada's DSL List
US Federal
TSCA
CAS# 1310-58-3 is listed on the TSCA Inventory.

Section 16 - Additional Information
We provides the information contained hereinin good faith but makes no representation as to its comprehensiveness oraccuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.