



冀中能源邢矿集团金牛钾碱分公司

TAURUS POTASH COMPANY, JZEG XINGTAI MINING GROUP CO., LTD.

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MATERIAL SAFETY DATA SHEET

POTASSIUM HYDROXIDE FLAKES

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name: Potassium Hydroxide

Synonyms: Caustic potash

Manufacturer: Taurus Potash Company, JZEG Xingtai Mining Group Co., Ltd.

ADD: No. 706, South Gangtie Road, Xingtai City, Hebei, China

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SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS# 1310-58-3

EINECS# 215-181-3

Hazard Symbols: Corrosive.



UN NO.1814

CLASS 8—CORROSIVES ITEM NO.95002 JMCO PAGE:3141

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Not available.



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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.

Skin: Causes skin burns. May cause deep, penetrating ulcers of the skin.

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: Harmful if inhaled. Irritation may lead to chemical pneumonitis and pulmonary edema. Causes severe irritation of upper respiratory tract with coughing, burns, breathing difficulty, and possible coma.

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 2-4 cupfuls 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 to fresh 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.

Extinguishing Media: For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

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: Wash thoroughly after handling. Use with adequate ventilation. Do not allow water to get into the container because of violent reaction. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale.

Storage: Store in a cool, dry, well-ventilated area, away from incompatible substances. Keep away from strong acids. Keep away from water. Keep away from metals. Keep away from flammable liquids. Keep away from organic halogens.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls: Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. **Personal Protective Equipment**

Eyes: Wear safety glasses and chemical goggles or face shield if handling liquids.

Skin: Wear appropriate 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. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	liquid
Color:	colorless
Odor:	Odorless
PH:	13.5 (0.1M solution)
Vapor Pressure:	Not available.
Viscosity:	Not available.
Boiling Point:	2408 deg F
Freezing/Melting Point:	680 deg F
Autoignition Temperature:	Not applicable.
Flash Point:	Not applicable.
Explosion Limits, lower:	Not available.
Explosion Limits, upper:	Not available.
Decomposition	Not available.
Temperature:	Not available.
Solubility in water:	Not available.



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Specific Gravity/Density: 1.45~1.50

Molecular Formula: KOH

Molecular Weight: 56.1047

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: Incompatible materials, moisture, contact with water, acids, metals.

Incompatibilities with Other Materials: Generates large amounts of heat when in contact with water and may steam and splatter. Reacts with chlorine dioxide, nitrobenzene, nitromethane, nitrogen trichloride, tetrahydrofuran, 2,4,6-trinitrotoluene, bromo form crown ethers, acids alcohols, sugars, germanium cyclopentadiene, maleic dicarbide. Corrosive to metals such as aluminum, tin, and zinc to cause formation of flammable hydrogen gas.

Hazardous Decomposition Products: Oxides of potassium.

Hazardous Polymerization: Has not been reported.

SECTION 11 - TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 1310-58-3: TT2100000

LD50/LC50:

Draize test, rabbit, skin: 50 mg/24H Severe;

Oral, Rat: LD50 = 273 mg/kg.

Carcinogenicity: Potassium hydroxide (KOH) -

Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Other: See actual entry in RTECS for complete information.

SECTION 12 - ECOLOGICAL INFORMATION

Beacause the alkalescence.It will pollute water. So please pay attention to protect the foliage and hydrophilous biology

SECTION 13 - DISPOSAL CONSIDERATIONS

Products which are considered hazardous for supply are classified as Special Waste and the disposal of such chemicals is covered by regulations which may vary according to location.

Contact a specialist disposal company or the local waste regulator for advice. Empty containers must be decontaminated before returning for recycling.

SECTION 14 - TRANSPORT INFORMATION



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USUAL SHIPPING CONTAINERS: Drums, multilayer bags.

USUAL SHELF LIFE: Life of container.

STORAGE/TRANSPORT

TEMPERATURES: Ambient.

SUITABLE STORAGE

MATERIALS/COATINGS: Steel, plastic, PE (when dry).

UNSUITABLE: Aluminum or galvanized containers.

OTHER INFORMATION: Keep containers sealed to avoid absorption of moisture.

SECTION 15 - ADDITIONAL INFORMATION

MSDS Creation Date: 1/05/2009 Revision #0 Date: Original.

Period of validity: 5/06/2014

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***SECTION 16 ***

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