

MATERIAL SAFETY DATA SHEET

Potassium Hydroxide White Flakes

**** SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION ****

MSDS Name: Potassium Hydroxide

Catalog Numbers: BP/P300, P/5560, P/5600, P/5640

Synonyms: Caustic potash

Name of Manufacturer: **ADD: 12 F, No. 985, Dongfang Road, Pudong, Shanghai, China**电话(TEL): **+86-21-61007878**传真(FAX): **+86-21-68765485 / 68764728**网址: **http://www.wentong.com**电子邮件(e-mail): **wentong@wentong.com**

**** SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS ****

CAS#	Chemical Name	%
EINECS#	Haz Symbols Risk Phrases	
1310-58-3	Potassium hydroxide (KOH)	100
215-181-3		

Hazard Symbols: None Listed.

Risk Phrases: None Listed.

**** SECTION 3 - HAZARDS IDENTIFICATION ****

EMERGENCY OVERVIEW

Not available.

Potential Health Effects

Eye:

Causes severe eye burns. May cause irreversible eye injury. Ontact may cause ulceration of the conjunctiva

地址: 昆明路 739 号文通大厦 21 层 • 杨浦 • 上海 • 中国 邮编: 200122

ADD: 21 F, Wentong Building, No. 739, Kunming Road, Yangpu, Shanghai, China

电话(TEL): **+86-21-80179166**传真(FAX): **+86-21-80179292**网址: **http://www.wentong.com**电子邮件(e-mail): **wentong@wentong.com**

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 2-4cupfuls 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 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 tightly closed container. 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 ****

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Physical State:	Solid
Color:	White
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 Temperature:	Not available.
Solubility in water:	Soluble in water
Specific Gravity/Density:	2.04
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, peroxidized tetrahydrofuran, 2,4,6-trinitrotoluene, bromoform 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#:

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CAS# 1310-58-3: TT2100000

LD50/LC50:

CAS# 1310-58-3: 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 ****

Because 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 ****

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 ***

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