NO HOLK

SAFETY DATA SHEET

Potassium hydroxide

Inner Mongolia Ruida Taifeng Chemical Co., Ltd.

According to GHS (Eighth Revised Edition)



Section 1 Product and Company Identification

> Product Identifier

Product Name

Potassium hydroxide

Synonyms

-

CAS No.

Not applicable

EC No.

Not applicable

Molecular Formula

Not applicable

> Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Relevant Identified

Uses

Please consult manufacturer.

Uses Advised Against

Please consult manufacturer.

> Details of the Supplier of the Safety Data Sheet

Applicant Name

Inner Mongolia Ruida Taifeng Chemical Co., Ltd.

Application Address

Ruilian Avenue, Alashan Economic Development Zone (Wusitai Town), Alxa

League, Inner Mongolia Autonomous Region.

Applicant Post Code

750336

Supplier Name

Inner Mongolia Ruida Taifeng Chemical Co., Ltd.

Supplier Address

Ruilian Avenue, Alashan Economic Development Zone (Wusitai Town), Alxa

League, Inner Mongolia Autonomous Region.

Supplier Post Code

750336

> Emergency Phone Number

Emergency Phone

Number

+86-483-8185831

Section 2 Hazards Identification

Hazard class and label elements of the product according to GHS (the eighth revised edition):

> GHS Hazard Class

Acute Toxicity - Oral

Category 4

Skin

Corrosion/Irritation

Category 1

Eye Damage/Irritation

Category 1

> GHS Label Elements

Pictogram



Signal Word

Danger

> Hazard Statements

H302

Harmful if swallowed

H314

Causes severe skin burns and eye damage

H318

Causes serious eye damage

> Precautionary Statements

Prevention

P260

Do not breathe dust/fume/gas/mist/vapours/spray.

P264

Wash contact area thoroughly after handling.

P270

Do not eat, drink or smoke when using this product.

P280

Wear protective gloves/protective clothing/eye protection/face

protection/hearing protection.

Response

P316

Get emergency medical help immediately.

P317

Get medical help.

P321

Specific treatment (see measures on this label).

P330

Rinse mouth.

P363

Wash contaminated clothing before reuse.

P301+P317

IF SWALLOWED: Get medical help.

P304+P340

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P301+P330+P331

IF SWALLOWED:Rinse mouth.Do NOT induce vomiting.

P302+P361+P354

IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse

with water for several minutes.

P305+P354+P338

IF IN EYES:Immediately rinse with water for several minutes.Remove contact

lenses, if present and easy to do. Continue rinsing.

Storage

P405 Disposal Store locked up.

P501

Dispose of contents/container in accordance with local/regional/national/

international regulations.

Section 3 Composition/Information on Ingredients

Component	Concentration (weight percent, %)	CAS No.	EC No.
Potassium hydroxide	≥ 90	1310-58-3	215-181-3
Potassium carbonate	≤ 0.5	584-08-7	209-529-3
Chloride	≤ 0.005	28724-32-5	643-058-8
Sulfate	≤ 0.002	14808-79-8	231-594-1

Ingestion

Inhalation

Section 4 First Aid Measures

> Description of First Aid Measures

Immediate medical attention is required. Show this safety data sheet (SDS) to **General Advice**

the doctor in attendance.

Rinse thoroughly with plenty of water for at least 15 minutes and consult a **Eve Contact**

physician if feel uncomfortable.

Take off contaminated clothing and shoes immediately. Wash off with plenty of **Skin Contact**

water for at least 15 minutes and consult a physician if feel uncomfortable. Do not induce vomiting. Never give anything by mouth to an unconscious

person. Call a physician or Poison Control Center immediately.

Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not

breathing, give artificial respiration and consult a physician immediately.

Ensure that medical personnel are aware of the substance involved. Take Protecting of precautions to protect themselves and prevent spread of contamination. First-aiders

> Most Important Symptoms and Effects, both Acute and Delayed

Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

> Indication of Any Immediate Medical Attention and Special Treatment Needed

- Treat symptomatically.
- 2 Symptoms may be delayed.

Section 5 Fire Fighting Measures

> Extinguishing Media

Suitable Extinguishing

Dry chemical, carbon dioxide or alcohol-resistant foam.

Media

Unsuitable **Extinguishing Media**

Do not use a solid water stream as it may scatter or spread fire.

> Specific Hazards Arising from the Substance or Mixture

- 1 Fire may produce irritating, poisonous or corrosive gases.
- 2 Containers may explode when heated.
- 3 Fire exposed containers may vent contents through pressure relief valves.
- 4 May expansion or decompose explosively when heated or involved in fire.

> Advice for Firefighters

- As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
- 2 Fight fire from a safe distance, with adequate cover.
- 3 Prevent fire extinguishing water from contaminating surface water or the ground water system.

Section 6 Accidental Release Measure

> Personal Precautions, Protective Equipment and Emergency Procedures

- 1 Ensure adequate ventilation. Remove all sources of ignition.
- 2 Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

3 Use personal protective equipment. Avoid breathing vapours, mist, gas or dust.

> Environmental Precautions

- 1 Prevent further leakage or spillage if safe to do so.
- 2 Discharge into the environment must be avoided.

> Methods and Materials for Containment and Cleaning Up

- Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
- Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
- 3 Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

Section 7 Handling and Storage

> Precautions for Handling

- 1 Handling is performed in a well ventilated place.
- 2 Wear suitable protective equipment.
- 3 Avoid contact with skin and eyes.
- 4 Keep away from heat/sparks/open flames/ hot surfaces.
- 5 Take precautionary measures against static discharges.

> Precautions for Storage

- Keep containers tightly closed.
- 2 Keep containers in a dry, cool and well-ventilated place.
- 3 Keep away from heat/sparks/open flames/ hot surfaces.
- 4 Store away from incompatible materials and foodstuff containers.

Section 8 Exposure Controls/Personal Protection

> Control Parameters

Occupational Exposure Limit Values

	Country/Region	Limit Value - Eight Hours		Limit Value - Short Term	
Component		ppm	mg/m³	ppm	mg/m³
Potassium hydroxide 1310-58-3	USA - NIOSH	-) = 3. 4	2
	South Korea	•		÷	2
	Poland		0.5	03 41 4 20 16 50	1
	Ireland		-	-	2
	Denmark		2		2
	Australia	(- 0)		-	2
Potassium carbonate 584-08-7	Latvia	2	0.5	in the second	-

Biological Limit Values

No information available

Monitoring Methods

1 EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment

of exposure to chemical and biological agents.

2 GBZ/T 160 Determination of toxic substances in workplace air(Series effective standard)and GBZ/T 300 Determination of toxic substances in workplace air(Series standard).

> Engineering Controls

- 1 Ensure adequate ventilation, especially in confined areas.
- 2 Ensure that eyewash stations and safety showers are close to the workstation location.
- 3 Use explosion-proof electrical/ventilating/lighting/equipment.
- 4 Set up emergency exit and necessary risk-elimination area.

> Personal Protection Equipment

Eye Protection Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US).

Hand Protection Wear protective gloves (such as butyl rubber), passing the tests according to

EN 374(EU),US F739 or AS/NZS 2161.1 standard.

If exposure limits are exceeded or if irritation or other symptoms are

Respiratory protection experienced, use a full-face respirator with multi-purpose combination (US) or

type AXBEK (EN 14387) respirator cartridges.

Skin and Body Wear fire/flame resistant/retardant clothing and antistatic boots.

Section 9 Physical and Chemical Properties

Appearance: White powder Odor: No information available

Odor Threshold: No information available pH: 14 (20 °C)

Melting Point/Freezing Point (°C): 360 Initial Boiling Point and Boiling Range (°C): 1327

Flash Point (°C) (Closed Cup): Not applicable Evaporation Rate: Not applicable

Upper/lower explosive limits[%(v/v)]: Upper limit:

No information available

No information available; Lower limit: No information

available

Vapor Pressure (KPa): Not applicable Relative Vapour Density(Air = 1): Not applicable

Relative Density(Water=1): 2.04 (20 °C) Solubility: 1130 g/l (20 °C)

n-Octanol/Water Partition Coefficient: No Auto-Ignition Temperature (°C): No information

information available available

Decomposition Temperature (°C): No information

Particle characteristics: No information available

Kinematic Viscosity (mm²/s): Not applicable

Section 10 Stability and Reactivity

Reactivity Contact with incompatible substances can cause decomposition or other

chemical reactions.

Chemical Stability Stable under proper operation and storage conditions.

Possibility of React violently with acids, phenols or alcohols. May react with strong acids,

Hazardous Reactions strong alkalis, strong oxidants and strong reducing agents.

Conditions to Avoid Incompatible materials, heat, flame and spark.

Incompatible Materials acids, phenols, alcohols and nitro substituted hydrocarbon. Strong acids,

strong alkalis, strong oxidants and strong reducing agents.

Hazardous Under normal conditions of storage and use, hazardous decomposition

Decomposition products should not be produced.

products

Section 11 Toxicological Information

> Acute Toxicity

Component	CAS No.	LD ₅₀ (Oral)	LD ₅₀ (Dermal)	LC ₅₀ (Inhalation, 4h)
Potassium carbonate	584-08-7	1870mg/kg(Rat)	No information available	No information available
Potassium hydroxide	1310-58-3	333mg/kg(Rat)	No information available	No information available

> Skin Corrosion/Irritation

Causes severe skin burns and eye damage(Category 1)

> Serious Eye Damage/Irritation

Causes serious eye damage(Category 1)

> Skin Sensitization

No information available

> Respiratory Sensitization

No information available

> Germ Cell Mutagenicity

No information available

> Carcinogenicity

ID	CAS No.	Component	IARC	NTP
1	1310-58-3	Potassium hydroxide	Not Listed	Not Listed
2	584-08-7	Potassium carbonate	Not Listed	Not Listed
3	28724-32-5	Chloride	Not Listed	Not Listed
4	14808-79-8	Sulfate	Not Listed	Not Listed

> Reproductive Toxicity

No information available

> Reproductive Toxicity (Additional)

No information available

> STOT-Single Exposure

No information available

> STOT-Repeated Exposure

No information available

> Aspiration Hazard

Section 12 Ecological Information

> Acute Aquatic Toxicity

No information available

> Chronic Aquatic Toxicity

No information available

> Others

Persistence and Degradability

No information available

Bioaccumulative Potential

No information available

Mobility in Soil

No information available

Potassium hydroxide meet the criteria for PBT and vPvB according to

Regulation (EC) No 1907/2006, annex XIII.

Potassium carbonate does not meet the criteria for PBT and vPvB according to

Results of PBT and vPvB Assessment Regulation (EC) No 1907/2006, annex XIII.

Chloride does not meet the criteria for PBT and vPvB according to Regulation

(EC) No 1907/2006, annex XIII.

Sulfate does not meet the criteria for PBT and vPvB according to Regulation (EC)

No 1907/2006, annex XIII.

Section 13 Disposal Considerations

Waste Chemicals

Before disposal should refer to the relevant national and local laws and

regulation. Recommend the use of incineration disposal.

Contaminated
Packaging
Disposal
Recommendations

Containers may still present chemical hazard when empty. Keep away from hot

and ignition source of fire. Return to supplier for recycling if possible.

Refer to section 13.1 and 13.2.

Section 14 Transport Information

Transporting Label



Marine pollutant

None

UN Number

1813

UN Proper Shipping

roper Simplin

POTASSIUM HYDROXIDE, SOLID

Transport Hazard Class

8

Transport Subsidiary Hazard Class

NONE

Packing Group

П

Skin

Corrosion/Irritation

Category 1

Eye Damage/Irritation

Category 1

> GHS Label Elements

Pictogram



Signal Word

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protection/hearing protection.

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IF IN EYES:Immediately rinse with water for several minutes.Remove contact

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Storage

Store locked up.

P405 Disposal

P501

Dispose of contents/container in accordance with local/regional/national/international regulations.

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