

Chemical Safety Data Sheet

SECTION 1 IDENTIFICATION

Product Name: Potassium hydroxide solution.

Other Name: /

Recommended use of the chemical and restrictions on use: /

Supplier's name: SHIGUANG (HEBEI) SUPPLY CHAIN MANAGEMENT CO., LTD

Supplier's address: BLOCK C, LECHENG BUSINESS,NO.260 WEST OF HUIAN ROAD,QIAOXI DISTRICT, SHIJIAZHUANG CITY, HEBEI PROVINCE, CHINA.

Zip code: 050000

Contact phone/fax: 0311-68052281.

Emergency phone number: 0311-68052281.

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

Corrosive to metals Category 1, Acute toxicity (oral) Category 4, Skin corrosion/irritation Category 1B, Serious eye damage/eye irritation Category 1.

GHS Label elements, including precautionary statements



Signal word: Danger

Hazard statement(s): May be corrosive to metals. Harmful if swallowed. Causes severe skin burns and eye damage.

Precautionary statement(s):

Prevention: Keep only in original packaging. Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands thoroughly after handling. Do not touch eyes. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

Response: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Get emergency medical help immediately. IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes. Wash contaminated clothing before reuse. Get emergency medical help immediately. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get emergency medical help immediately. IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get emergency medical help immediately. Specific treatment (see first aid instructions on the Safety Data Sheet). Absorb spillage to prevent material damage.

Storage: Store in a corrosion resistant/container with a resistant inner liner. Store locked up.

Disposal: Dispose of contents/container to relevant regulations.

Other hazards which do not result in classification: /

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration%
Potassium hydroxide	1310-58-3	48.3%

SECTION 4 FIRST AID MEASURES

Description of necessary first aid measures

If inhaled: If breathed in, move person into fresh air. Keep respiratory tract unobstructed. If difficulty in breathing, give oxygen. If the patient ingests or inhales this substance, do not perform mouth-to-mouth artificial respiration. If not breathing, immediately perform cardiopulmonary resuscitation. Consult a physician.

In case of skin contact: Wash off with soap and plenty of water. Consult a physician.

In case of eye contact: I Immediately lift the eyelids and rinse thoroughly with plenty of running water or saline for at least 15 minutes. Consult a physician.

If swallowed: For advice, contact a Poisons Information Centre or a doctor at once. Urgent hospital treatment is likely to be needed. If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully.

Most important symptoms and effects, both acute and delayed:

Indication of immediate medical attention and special treatment needed: /

SECTION 5 FIREFIGHTING MEASURES

Suitable extinguishing media: Water spray or fog. Foam. Dry chemical powder. BCF (where regulations permit). Carbon dioxide.

Special hazards arising from the chemical: Non-combustible. Not considered a significant fire risk, however containers may burn.

Special protective actions for fire-fighters: Wear self-contained breathing apparatus for firefighting if necessary. Use water spray to cool unopened containers.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Clean up all spills immediately. Avoid breathing vapors and contact with skin and eyes. Control personal contact with the substance, by using protective equipment.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up: Contain spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling. Neutralize/decontaminate residue (see Section 13 for specific agent). Collect solid residues and seal in labelled drums for disposal. Wash area and prevent runoff into drains. After clean-up operations, decontaminate and launder all protective clothing and equipment before storing and re-using.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling: Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area

Conditions for safe storage, including any incompatibilities: Store in original containers. Keep containers securely sealed. Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. DO NOT store near acids, or oxidizing agents. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storing and handling recommendations.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters: /

Appropriate engineering controls: Local exhaust ventilation usually required. If risk of overexposure exists, wear approved respirator. Correct fit is essential to obtain adequate protection. Supplied-air type respirator may be required in special circumstances. Correct fit is essential to ensure adequate protection.

Personal protective equipment

Eye/face protection: Safety glasses with side shields. Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants.

Skin protection: Wear chemical protective gloves, eg. PVC. Wear safety footwear or safety gumboots, eg. Rubber. Impervious clothing, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colorless clear liquid
Odour	No data
Odour Threshold	No data
pH	No data
Melting point/freezing point	No data
Initial boiling point and boiling range	No data
Flash point	No data
Evaporation rate	No data
Flammability (solid, gas)	Non flammable
Upper/lower flammability or explosive limits	No data
Vapour pressure	No data
Vapour density	No data
Relative density	1.48
Water solubility	Miscible
Partition coefficient: octanol/water	No data
Autoignition temperature	No data
Decomposition temperature	No data
Viscosity	No data

SECTION 10 STABILITY AND REACTIVITY

Reactivity: Contact with strong acids liberates heat.

Chemical stability: Stable at room temperature under normal pressure.

Possibility of hazardous reactions: Hazardous polymerization will not occur.

Conditions to avoid: No data available.

Incompatible materials: Acids, metals.

Hazardous decomposition products: Under normal storage and usage conditions, no hazardous decomposition products will be produced.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute health effects

Inhalation: The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage.

Ingestion: Ingestion of alkaline corrosives may produce burns around the mouth, ulcerations and swellings of the mucous membranes, profuse saliva production, with an inability to speak or swallow.

Skin: Skin contact with alkaline corrosives may produce severe pain and burns; brownish stains may develop. The corroded area may be soft, gelatinous and necrotic; tissue destruction may be deep.

Eyes: If applied to the eyes, this material causes severe eye damage.

Chronic health effects: Repeated or prolonged exposure to corrosives may result in the erosion of teeth, inflammatory and ulcerative changes in the mouth and necrosis (rarely) of the jaw. Bronchial irritation, with cough, and frequent attacks of bronchial pneumonia may ensue. Gastrointestinal disturbances may also occur. Chronic exposures may result in dermatitis and/or conjunctivitis.

Numerical measures of toxicity (such as acute toxicity estimates): /

SECTION 12 ECOLOGICAL INFORMATION

Toxicity: No data available.

Persistence and degradability: Water/Soil: LOW.

Bioaccumulative potential: LOW.

Mobility in soil: HIGH.

Other adverse effects: No data available.

SECTION 13 DISPOSAL CONSIDERATIONS

Disposal methods: Recycle wherever possible. Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified. Treat and neutralize at an approved treatment plant. Treatment should involve: Neutralization with suitable dilute acid followed by: burial in a land-fill specifically licenced to accept chemical and / or pharmaceutical wastes or Incineration in a licenced apparatus (after admixture with suitable combustible material). Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

SECTION 14 TRANSPORT INFORMATION

UN number: UN 1814.

UN proper shipping name: POTASSIUM HYDROXIDE SOLUTION

Transport hazard class(es): 8.

Packaging group: II.

Environmental hazards: /

Special precautions for user: Please select appropriate transportation means and corresponding transportation and storage conditions according to the nature of chemicals. The means of transport shall be equipped with fire-fighting materials of corresponding varieties and quantities and emergency treatment equipment for leakage.

SECTION 15 REGULATORY INFORMATION**Regulations:**

This safety data sheet is in compliance with the following national standards: GB16483-2008 , GB13690-2009, GB6944-2012, GB/T15098-2008, GB18218-2018, GB15258-2009, GB190-2009,

GB/T191-2008, GB12268-2012, GA57-1993, GBZ 2.1-2019as well as the following national regulations: Dangerous Goods Transport Administrative Regulation, Dangerous Chemicals Safety Administrative Regulation, United Nations Regulations on the Transport of Dangerous Goods (UN RTDG)

SECTION 16 OTHER INFORMATION

References	“Model Regulations on the Transport of Dangerous Goods” “The Globally Harmonized System of Classification and Labelling of Chemicals”
Form Date	2019.03.27
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Note 1: When products contain two or more hazardous substances, Safety Data Sheets should be prepared based on the risk of the mixture.

Note 2: Manufacturer / supplier should ensure the correctness of the information contained in the safety data sheets, and updated in a timely manner.

Note 3: As a result of product features without the existence of certain information or no data available (such as boiling point does not exist for the solid) in the table with "/" logo.