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Chinese Institute of Chemical Technology

MSDS NO.:ZKGC20200617-09-05-002

CREATION DATE:JUN.18,2020

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MATERIAL SAFETY DATA SHEET (MSDS)

THIS MSDS IS AUTHORED BASED ON THE DATA SUPPLIED BY
AND IDENTIFIED ON BEHALF OF THE CLIENT.

SAMPLE NAME:pH REAGENT FOR TESTING

CLIENT NAME:GUANGZHOU JEUDAO HOUSEHOLD ELECTRIC
APPLIANCE CO.,LTD.

CLIENT ADDRESS: 4F, NO. 1 QIDI STREET, SHIQI VILLAGE SECTOR,
SHILIAN ROAD, PANYU DISTRICT GUANGZHOU,
GUANGDONG,CHINA

MSDS NO.:ZKGC20200617-09-05-002

ISSUE DATE:JUN.20,2020



SIGNED FOR AND ON BEHALF OF BEIJING ZKGC
RESEARCH INSTITUTE OF CHEMICAL TECHNOLOGY

APPROVED SIGNATORY:

Aurora.D





Material Safety Data Sheet

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Section 1: Identification

Product name: pH reagent for testing

Product NO.: ZKGC20200617-09-05-002

Company: Guangzhou Jeudao Household Electric Appliance CO.,LTD.

Address: 4F, No. 1 QiDi Street, ShiQi Village Sector, ShiLian Road, PanYu District
Guangzhou, GuangDong, China

Telephone: 17383565313/020-28685680-8029

E-mail: yhe@yunch.cn

Section 2: Composition/Information On Ingredients

Substance ☒ Mixture

Chemical name	Concentration(%)	CAS NO.
Pure water	45	7732-18-5
Ethanol	28	64-17-5
Methyl Red	10	493-52-7
Bromothymol blue	11	76-59-5
Phenolphthalein	6	77-09-8

Section 3 : Hazard Identification

Classification of the substance or mixture: This product is not included in the List of Hazardous Chemicals.

Label elements: None

Healthy hazards: No special hazard in normal use. Inedible.

Explosion danger: Non-flammable

Environmental hazards: Do not allow large amounts of direct emissions into the environment.

Section 4 : First-aid Measures

Skin contact: Please take off the contaminated clothes and wash thoroughly with flowing water or soapy water.

Eyes contact: Immediately lift the eyelid and rinse thoroughly with running water. If necessary, seek medical advice.

Inhalation: Quick release from site to fresh air. Keep the airways open.



Ingestion: Drink plenty of warm water, vomiting, and seek medical advice.

Section 5: Fire-fighting Measures

Hazardous characteristics: None

Harmful combustion products: No data available

Extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Precautions for fire fighting: Fire and anti-virus clothing, fire and anti-chemical boots and positive pressure self-contained breathing apparatus shall be worn.

Section 6: Accidental Release Measures

Emergency handling: Cut off the fire source. Unrelated persons from the side of the wind, upwind evacuation to a safe area.

Cut off the source of leakage as much as possible.

Prevent access to restricted spaces such as sewers and drainage ditches.

Small leakage: adsorption or absorption by sand or other non combustible materials. It can also be washed with a large amount of water, and then diluted into the waste water system.

Large amount of leakage: build a dike or dig a pit to accommodate it.

Method: Use explosion-proof pump to transfer to tank car or special collector, recycle or transport to waste disposal site for disposal.

Human related safety protection measures: Ventilate before entering the enclosed space.

Do not touch damaged containers or leaks before wearing appropriate protective clothing. Please evacuate irrelevant personnel.

Environmental precautions: Disposing this product into the environment without permission of the local government is prohibited.

Section 7: Handling and Storage

Operational considerations: Sealing operation, strengthen ventilation. Operators must be professionally trained and must strictly follow operating instructions.

Keep away from fire and heat sources.

Smoking is strictly prohibited in the workplace.

Use explosion-proof ventilation system and equipment.

Separate from oxidants chemicals; disinfectants or drugs.

Mixed storage is not allowed (see Section 10 for incompatible materials.)

When filling, pay attention to the flow rate and have grounding device to prevent static electricity from accumulating.

Handle with care to preempt package or container breakage.

Equipped with the corresponding variety and quantity of fire fighting equipment and leakage emergency treatment equipment.

Storage considerations: Store away from light.



Store in a cool,ventilated warehouse.

Keep away from fire and heat sources.

Keep the container sealed.

Separate from oxidizing agents, edible chemicals,mixed storage is not allowed (see section 10 for incompatible materials).

The storage area should be equipped with emergency leakage treatment equipment and appropriate shelter materials.

Section 8: Exposure Controls/Personal Protection

Controlling parameter: /

Appropriate engineering controls:

Set up automatic alarm device and accident ventilation facilities. Set up emergency evacuation channels and necessary drainage areas.

Set up red area warning line, warning sign and Chinese warning description, and set up communication alarm system.

Provide safety shower and eye wash equipment.

Respiratory system protection:

When the air concentration exceeds the standard, wear a filter gas mask (half mask) or protective masks.

In case of emergency rescue or evacuation, air carrying respirator shall be worn.

Eye/face protection:

No need for protection in normal use.Avoid contact with eyes.

Skin protection:

Wear rubber gloves.

Physic protection:

Wear work clothes.

Other protection:

Smoking, eating and drinking are prohibited at work.

After work, clean it thoroughly.

Conduct pre employment and regular physical examination.

Section 9: Physical and Chemical Properties

Physical state: Liquid,light wine flavor.

pH: No data available

Flammability: Nonflammable

Solubility: Dissolve in water.

Main ingredients: Pure water,Ethanol,Methyl Red,Bromothymol blue,Phenolphthalein

Main uses: Used to test the pH of water

Section 10: Stability and Reactivity

Chemical stability: Store at room temperature and away from light, this product is stable.

Prohibited substances: Strong oxide, strong acid, strong base.

Conditions to avoid: Light,open flames,high heat and high pressure.

Polymerization harm: No data available

Decomposition products:

Natural decomposition, the product is unknown.

Section 11: Toxicological Information

Acute toxicity: No data available,harmful if swallowed.



Skin corrosion/irritation: No data available
Serious eye damage/irritation: No data available
Thrill: No data available
Sensitization: No data available
mutagenicity: No data available
Teratogenicity: No data available
Carcinogenicity: No data available

Section 12: Ecological Information

Ecotoxicological toxicity: No data available
Persistence and degradability: No data available
Bioaccumulative potential: No data available
Mobility in soil: No data available
Other adverse effects: No data available

Section 13: Disposal Considerations

Product: Waste generation should be avoided or minimized.
Surplus products and unrecyclable products should be disposed of by licensed waste disposal contractors.
This product shall not be disposed of by discharge to sewer.
Contaminated packaging: Return containers to the manufacturer or dispose the container in accordance with national and local regulations.
Discards: Oil-resistant gloves should be worn for operation under the condition of air circulation. Dispose according to national and local regulations.
See section 8 for personal security precautions during waste disposal.

Section 14: Transport Information

United Nations dangerous goods number: No data available
UN number: No data available
Packing mark: No data available
Packing group: No data available
Packing method: Pack as instructed by the manufacturer.
Transport: Transport vehicles should be equipped with enough amount of proper fire-fighting equipment and equipment for emergency leakage control.
It is strictly prohibited to package and transport together with oxidants, edible chemicals, etc.



The exhaust pipe of the vehicle carrying the article must be equipped with a fire stop device.

Grounding chain shall be provided for transportation by tank (tank) truck, and hole partition plates may be provided in the tank to reduce static electricity generated by vibration.

It is forbidden to use mechanical equipment and tools that easily generate sparks for loading and unloading.

It is better to transport in the morning and evening in summer.

Prevent overexposure to sunlight, rain and high temperature during transport.

Keep from fire, heat and high temperature areas during stopovers.

During highway transportation, it is required to drive according to the specified route, and do not stay in residential areas and densely populated areas.

It is strictly prohibited to use wooden ships and cement ships for bulk transportation.

Handle with care to prevent damage to packaging and containers.

Dangerous signs and announcements shall be posted on the means of transport in accordance with the relevant transport requirements.

Section 15: Regulatory Information

Regulatory information: This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environment regulations/legislation which regulates this substance or its mixture.

Chemical Safety Assessment

Section 16: Other Information

Preparation and revision of information: This is version 1.0 in compliance with GB/T 16483-2008, GB/T 17519-2013 and GB 30000 classification standards.

Abbreviations and CAS: CAS login number

acronyms: MAC: maximum allowable concentration is the maximum concentration that toxic chemicals should reach at workplace during a workday.

Allows PC - TWA: time weighted average concentration (permissible concentration - time weighted average) Refers to the average concentration allowed by weight during a 8h workday and a 40h workweek.

PC - STEL: short time contact allowable concentration (permissible concentration - short term exposure limit)Refers to the concentration allowed by PC-TWA for short-term (15min) contact.

References: 【1】 International Programme on Chemical Safety: International Chemical Safety Card (ICSC) Website: <http://www.ilo.org/dyn/icsc/showcard.home>

【2】 International Agency for Research on Cancer ,Website:<http://www.iarc.fr/>

【3】 The OECD Global portal to Information on Chemical Substances

Website: <http://www.echemportal.org/echemportal/index?PageID> = 0 & request_locale = en



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【4】 The CAMEO Chemicals Database,

Website: <http://cameochemicals.noaa.gov/search/simple>

【5】 United States National Library of Medicine: Chemical Database

Website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>

【6】 United States Environmental Protection Agency: Integrated Risk Information System (epa) : integrated risk information system, Website: <http://cfpub.epa.gov/iris/>

【7】 U.S. Department of Transportation: Emergency Response Guidelines,

Website: <http://www.phmsa.dot.gov/hazmat/library/erg>

【8】 GESTIS – Databases on Hazardous Substances

Website: <http://gestis-en.itrust.de/>



Disclaimer: This MSDS applies only to the included products, and not to mixtures of these products and other substances unless specified otherwise in the document.

This MSDS provides safety guidance with regard to handling the product exclusively for those who have received proper profession training in related areas. Users must reassess the applicability of this MSDS. The author of this MSDS will be relieved from liability for safety issues and subsequent damages caused by using this document.