

Material Safety Data Sheet

Part 1 Chemicals and Enterprise Identification

Product name:	Gram Stain
Product number:	029010
Company Name:	Guangdong Huankai Microbial Sci. & Tech. Co.,Ltd.
Address:	No. 788, Shenzhou Road, Science City, Guangzhou Development Zone, Huangpu District, Guangzhou City, Guangdong Province
Post code:	510663
Company website	http://www.huankai.com
Email address:	webmaster@huankai.com
Fax number:	020-32079986
Technical hotline:	020-32078333-8877/8876
Recommended and restricted uses:	Biochemical research/analysis

Part 2 Hazard Overview

GSH hazard category Flammable (Category 3); Eye Irritant (Category 2B)

GSH tag elements



Pictogram:

Hazard Information: H226 Flammable liquid and vapour; H320 Causes eye irritation.

Precautionary Statements

Prevention: P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P280

Wear protective gloves/eye protection/face protection.

Incident Response: P370 + P378 In case of fire: Use fire extinguisher. P305 + P351 +

P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if worn and easy to do. Continue rinsing. Immediately call a poison center/doctor. P312 Call a poison center/doctor if you feel unwell.

Waste disposal: Dispose in accordance with national regulations

Physical and chemical hazards	There are no physical or chemical hazards according to the information currently available.
Health hazards	H320 Causes eye irritation.
Environmental hazard	No reports
Other hazards (health hazards, environmental hazards)	No reports

Part 3 Composition Information

Mixture

Chemical composition: Refer to the instructions for use of the medium.

Hazardous material ingredients:

Chemical name	CAS No.	Concentration
Ethanol	64-17-5	≥95%

Part 4 First Aid Measures

General information: No special measures are required.

Skin contact: Wash thoroughly with clean water immediately.

Eye contact: Immediately lift your eyelids and rinse with plenty of running water for 15 minutes. Seek medical attention if you feel unwell

Inhalation: If inhaled, move person to fresh air, if not breathing, remove person
Perform respiratory procedures and contact a physician.

Ingestion: If swallow, rinse mouth with water and seek medical attention if unwell.

Medical information: Present the product instructions or this SDS.

Part 5 Firefighting Measures

Hazardous characteristics: Flammable

Hazardous combustion products: Carbon monoxide, carbon dioxide, oxides of nitrogen.

Fire extinguishing methods and fire extinguishing media: Use a fire extinguisher suitable for the surrounding fire source. Water, foam, carbon dioxide, sand.

Fire fighting precautions: Prevent gas inhalation.

Part 6 Emergency Response to Release

Personal protection:	Wear a personal lab coat, gloves and mask to avoid inhalation of dry powder.
Environmental protection measures:	Wipe clean with a damp cloth and floor mop.
Cleaning/Collection Measures:	Keep dry. Clean soiled areas quickly.
Extra information:	No hazardous substances leaked.

Part 7 Handling and Storage

Operation precautions:	No special measures are required.
Storage conditions:	Room temperature
Storage precautions:	Store in a dark and dry place

Part 8 Exposure Controls/Personal Protection

Occupational exposure limits	There are no known national exposure limits
Engineering control:	Provide safety showers and eyewash facilities
Personal protection measures	
Respiratory protection:	Weigh product in a fume hood and wear a mask.
Eye protection:	Wear safety glasses.
Body protection:	Wear a lab coat.
Hand protection:	Wear chemical-resistant gloves.
Other protection:	Routine industrial hygiene practices, wash hands promptly after work

Part 9 Physical and Chemical Properties

Exterior:	Liquid	pH value:	No data available
Color:	Crystal violet staining solution: purple	Odor:	Characteristic
	Iodine solution: brown		
	Dehydrated alcohol: colorless		
	Safflower counterstain: red		
Melting point:	No data available	Boiling point:	No data available
Rising point:	No spontaneous combustion	Flash point:	No data available
Explosion limit			
Lower limit:	No data available	Upper limit:	No data available
Thermal decomposition:	No data available		
Solubility:	Easily soluble in water		

Part 10 Stability and Reactivity

Stability:	Iodine solution is unstable and will decompose when exposed to strong light. It should be stored sealed at room temperature and is valid for 3 years.
Conditions to avoid:	Avoid contact with strong oxidizing substances.
Taboo items:	No data available
Hazardous decomposition products:	No decomposition if used according to the product instructions.
Aggregation Hazards:	Will not happen

Part 11 Toxicological Information

Acute toxicity:	No data available
Skin irritation or corrosion:	No data available
Eye irritation or corrosion:	No data available
Respiratory or skin allergies:	No data available
Germ cell mutagenesis:	No data available
Carcinogenicity:	No data available
Reproductive toxicity:	No data available
Specific Target Organ Systemic Toxicity—Single Exposure:	No data available
Specific target organ toxicity - repeated exposure	No data available
Inhalation hazard	May cause respiratory irritation

Part 12 Ecological Information

Ecological effects:	Correct handling and use of the product does not cause any ecological harm.
Other ecological data:	Proper use of the product does not cause any water harm.

Part 13 Disposal

Product

Disposal method: Dispose in accordance with relevant local government regulations.

Package

Recommendation: Discard or recycle according to relevant local government regulations.

Recommended cleaning reagents: Water and cleaning agent if needed.

Part 14 Transportation Information

United Nations Dangerous Goods Number (UN Number):	None
UN shipping name:	Non-dangerous goods

Transport hazard classification:	None
Packaging category:	None
Packaging mark:	None
Packing:	10mL × 4 bottles/box, product packaging is plastic bottle, pearl cotton, paper box, transportation packaging is cardboard box filled with cushioning bag
Marine pollutants (yes/no):	No
Transportation precautions	Please select appropriate transportation tools and corresponding transportation and storage conditions according to the properties of the chemicals. The transportation tools should be equipped with corresponding types and quantities of fire-fighting materials and leakage emergency treatment equipment.

Part 15 Regulatory Information

Regulations on the Safety Management of Hazardous Chemicals (issued by the State Council on January 9, 2002)

Regulations on the safe use of chemicals in the workplace ([1996] Ministry of Labor Issue No. 423)

Classification and marking of commonly used hazardous chemicals (GB13690-2009)

GB/T22234-2008 Chemical labeling specifications based on GHS

GB/T 16483-2008 Chemical Safety Data Sheet Contents and Project Sequence

GB/T 17519-2013 Guidelines for Preparing Chemical Safety Data Sheets

GBZ 2.1-2007 Occupational Exposure Limits for All Hazardous Agents in the Workplace Part 1: Chemical Hazardous Agents

Part 16 Other Information

Part 2, GHS hazard classification and labeling elements, comes from the *Globally Harmonized System of Classification and Labeling of Chemicals*.

Training recommendations: Provide adequate information, guidance and training to operators.

The information in this table is based on our current knowledge and is intended to provide the correct safety precautions for the product and should be used as a guide only.

