

## Material Safety Data Sheet

### Part 1 Chemicals and Enterprise Identification

|                                  |  |
|----------------------------------|--|
| Product name:                    | Kovacs Indole Reagent  |
| Product number:                  | 029030   |
| 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                  | <a href="http://www.huankai.com">http://www.huankai.com</a>  |
| Email address:                   | <a href="mailto:webmaster@huankai.com">webmaster@huankai.com</a>   |
| 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 Liquids (Category 3); Acute Toxicity, Oral (Category 4);<br>Skin Corrosion/Irritation (Category 2); Serious Eye Damage/Eye Irritation (Category 1)<br>Specific Target Organ Toxicity (Single Exposure) (Category 3)<br>Respiratory System, Central Nervous System,; Acute Aquatic Toxicity (Category 3) |
|---------------------|---|

GSH tag elements



Pictogram:

Signal Word: Danger

Hazard Information: H226 Flammable liquid and vapor. H302 Harmful if swallowed.

H313 + H333 May be harmful in contact with skin or if inhaled. H315 Causes skin irritation. H318 Causes serious eye damage. H335 May cause respiratory irritation. H336

May cause drowsiness or dizziness. H402 Harmful to aquatic life.

Precautionary Statements:

Precautions: P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P233

Keep container tightly closed. P234 Store only in original container. P240 Ground/bond container and loading equipment. P241 Use explosion-proof electrical/ventilating/lighting equipment.

P242 Use only non-sparking tools. P243 Take measures to prevent static discharge. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment. P280 Wear protective gloves/eye protection/face protection.

Incident Response: P301 + P312 + P330 if swallowed: Call a poison center doctor if you feel unwell. Rinse mouth. P303 + P361 + P353 if on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304

+ P340 + P312 if inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. P305 + P351 +

P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison/center doctor. P312 Call a poison center/doctor if you feel unwell. P332 +

P313 If skin irritation occurs: Get medical advice/attention. P370 + P378 In case of fire: Use dry sand, dry powder or alcohol-resistant foam to extinguish. P390 Absorb spillage to prevent material damage.

Safe Storage: P403 + P233 Store in a well-ventilated place. Keep container tightly closed. P403 + P235 Store in a well-ventilated place. Keep cool.

Disposal: P501 Dispose of contents/container to an approved waste treatment plant.

|   |  |
|---|--|
| Physical and chemical hazards                         | H226 Flammable liquid and vapour.  |
| Health hazards  | H302 Harmful if swallowed. H333 May be harmful if inhaled. H313 May be harmful in contact with skin. H315 Causes skin irritation. H318 Causes serious eye damage. H335, H336<br>May cause respiratory irritation. , May cause drowsiness or dizziness. |
| Environmental hazard                                  | H402 Harmful to aquatic life.  |
| Other hazards (health hazards, environmental hazards) | No reports   |

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## Part 3 Composition Information

### Mixture

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

Hazardous material ingredients:

| Chemical name               | CAS No.    | Concentration |
|-----------------------------|------------|---------------|
| p-Dimethylaminobenzaldehyde | 100-10-7   | 5%            |
| Amyl alcohol                | 71-41-0    | 71%           |
| Hydrochloric acid           | 26628-22-8 | 25%           |

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#### **Part 4 First Aid Measures**

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| 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<br>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.  |

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#### **Part 5 Firefighting Measures**

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| Hazardous characteristics:                               | There is a risk of burning when exposed to open flames   |
| Hazardous combustion products:                           | Carbon monoxide, carbon dioxide, nitrogen oxides   |
| Fire extinguishing methods and fire extinguishing media: | Use a fire extinguisher suitable for the surrounding fire source: water, foam, carbon dioxide, dry 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.  |

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## Part 7 Handling and Storage

Operation precautions: No special measures are required.

Storage conditions: 4-8°C

Storage precautions: Store in a dark and dry place

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## Part 8 Exposure Controls/Personal Protection

### Occupational exposure limits

| Hazardous ingredients | CAS No. | OELs(mg/m3) |        |         | Basis   |
|-----------------------|---------|-------------|--------|---------|---|
|                       |         | MAC         | PC-TWA | PC-STEL |   |
| Amyl alcohol          | 71-41-0 | --          | 100    | --      | GBZ 2.1-2007 Occupational exposure limits for hazardous factors in the workplace - Chemical hazardous factors |

**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

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## Part 9 Physical and Chemical Properties

Exterior: Liquid pH value: No data available

Color: Light yellow green Odor: Characteristic

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: No data available

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## Part 10 Stability and Reactivity

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|-----------------------------------|---|
| Stability:                        | Stable under suitable storage conditions.                       |
| Conditions to avoid:              | Avoid exposure to light.  |
| Taboo items:                      | Strong oxidants, strong bases                                   |
| Hazardous decomposition products: | No decomposition if used according to the product instructions. |
| Aggregation Hazards:              | Will not happen   |

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## Part 11 Toxicological Information

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| Acute toxicity:  | Pentanol (LD50) 2200 mg/kg (rat oral) |
| Skin irritation or corrosion:                            | Stimulating                           |
| Eye irritation or corrosion:                             | Stimulating                           |
| 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      |

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## Part 12 Ecological Information

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| 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.                    |

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## 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.

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## Part 14 Transportation Information

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

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|----------------------------------|--|
| 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. |

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## 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

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## 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.