

SARAYA**SARAYA CO., LTD.**
SAFETY DATA SHEET

Product name : Shaki-Shaki S/Fumaric acid solution

Date written : Jul. 27, 2016

Date revised : -

Preparation Date : Jul. 29, 2016

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name Shaki-Shaki S/Fumaric acid solution

Manufacture **SARAYA CO., LTD.**
 2-2-8 Yuzato, Higashisumiyoshi-ku,
 Osaka, JAPAN 546-0013
 Global Operations Division
 Tel. No. : +81-6-6703-6336
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2. HAZARDS IDENTIFICATION

GHS Classification

Health Hazards

Germ cell mutagenicity	Category 1
Reproductive toxicity	Category 1
Specific target organ toxicity following repeated exposure	Category 2

GHS label elements

Pictograms**Signal words**

Danger

Hazard statements

:May cause genetic defects
 :May damage fertility or the unborn child
 :May cause damage to (nerve/organs) through prolonged or repeated exposure

Precautionary statement

[Prevention]

:Obtain special instruction before use.
 :Do not handle until all safety precautions have been read and understood.
 :Wear protective gloves, protective clothing, eye protection and face protection.

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:Do not breathe dust, fume, gas, mist, vapors and spray.

[Response]

:IF exposed or concerned: Get medical attention.

:Get medical attention if you feel unwell.

[Storage]

:Store locked up.

[Disposal]

:Disposal of contents or container should be done in accordance with local, regional, national and international regulations.

Other hazards which do not result in classification

:Acid

:Contact with chlorine substances liberates toxic chlorine gas.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Preparation	Preparation
Components	Fumaric acid, Malic acid, Ethanol, Glycerol esters of fatty acid, Xanthan gum, Guar gum, Water
Chemical or common name	Ethanol (CAS No. 64-17-5) < 5%

4. FIRST AID MEASURES

Inhalation

In the case of inhalation of chlorine gas, immediately evacuate the patient to well-ventilated area. Allow the patient to rest and immediately seek medical attention. It may be fatal if medical attention is delayed.

Skin contact

Immediately wash off the product with plenty of water. Immediately put off the clothes or shoes tainted by the product. May cause skin irritation if medical attention is delayed.

Eye contact

Immediately flush eyes with clean running water for at least 15 minutes, and then immediately seek medical attention. May cause loss of vision if medical attention is delayed.

Ingestion

Drink plenty of water (Do not apply to people who have an allergy to them). Do not induce vomiting. Immediately, seek medical attention. In case of ingestion plenty of the product , it may be fatal if



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medical attention is delayed.

5. FIRE FIGHTING MEASURES

Suitable extinguish media

Foam, Powder, or Carbon dioxide gas

Instruction

Product itself is non-combustible. If fire does occur because of the surrounding environment, use above-mentioned media.

6. ACCIDENTAL RELEASE MEASURES

Large spills Collect in a covered container.

Small spills Wipe small spills with a rag.

7. HANDLING AND STORAGE

Handling

:Use the product only for intended purposes.

:Shake the container thoroughly before use.

:Do not transfer the product to other containers.

:May be caused spatter of the product when opening the cap. When transferring the container, close the cap tightly. Looseness may cause spatter of the product. Skin contact and/or eye contact may be caused.

Storage

Conditions for safe storage

:Keep out of reach of the children.

:Store it in a sealed container and at a cool and dark area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Appropriate engineering control

Not known

Management concentrations

A concentration value for managing the material has not been set.

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Control Parameter

A control parameter has not been set.

Personal protection

Wear protective goggles and rubber gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state

Viscous liquid

Color

Turbid, Milky white

Odor

Raw material odor

pH

 ≤ 2.0 **10. STABILITY AND REACTIVITY**

Chemical stability

Stable at room temperature.

Possibility of hazardous reactions

Not known

Incompatible materials

Chlorine substances

Hazardous decomposition products

Contact with chlorine substances liberates toxic chlorine gas.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified

Skin corrosion/irritation

Not classified

Serious eye damage/eye irritation

Not classified

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Respiratory sensitization/skin sensitization

Not classified

Mutagenicity

Category 1 (May cause genetic defects)

Carcinogenicity

Not classified

Reproductive toxicity

Category 1 (May damage fertility or the unborn child)

Specific target organ/systemic toxicity following single exposure

Not classified

Specific target organs/systemic toxicity following repeated exposure

Category 2 (Cause damage to organ through prolonged or repeated exposure)

Aspiration hazard

Classification not possible

Teratogenicity

Classification not possible

Metabolism

Classification not possible

12. ECOLOGICAL INFORMATION

Ecotoxicity

Not known

Persistence and degradability

Not known

Bioaccumulative potential

Not known

Mobility in soil

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Not known

13. DISPOSAL CONSIDERATIONS

See section 7, Handling and storage

International regulations

Disposal should be done in accordance with local, state, and national laws.

Waste for residues

In a large quantity of waste, dilute it with water or neutralize it with applicable alkaline agent.

Used container

Disposal should be done in accordance with local, state, and national laws.

14. TRANSPORT INFORMATION

See section 7, Handling and storage

UN regulations

UN classification

Not applicable

UN number

Not applicable

:Not applicable as flammable liquid

:Take necessary measures to prevent spillage, leakage, outflow and soakage.

International regulations

It is the responsibility of the user to know and comply with all relevant rules, regulations and laws in the local, state, national and international level relating to the product being used.

15. REGULATORY INFORMATION

International regulations

It is the responsibility of the user to know and comply with all relevant rules, regulations and laws in the local, state, national and international level relating to the product being used.

16. OTHER INFORMATION

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Disclaimer

:Any of the above information may be changed without prior notice.

:This document is complete and thorough to the best of our knowledge.

Note that information is provided in order to use the product safely, not to guarantee the safety of the product.

:Use the product properly according to its specifications.

:As with all chemicals, at the present time there are some unknown facts about the chemicals contained in this product and thus, the product should be handled with care. It is the responsibility of each individual user to set the conditions in which the product can be safely used.