

Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Commercial Name: Micro Volume QuEChERS kit
100 mg (tube) x 100 tubes

General Use: Not for therapeutic or diagnostic use

Manufacturer's Name: SHINWA CHEMICAL INDUSTRIES LTD.
Address: 50-2 Kagekatsu-cho, Fushimi-ku, Kyoto 612-8307 Japan
Emergency Phone: 81(75)621-2360
Emergency Fax: 81(75)602-2660

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Serious eye damage/eye irritation: Category 2B

Hazardous to the aquatic environment acute hazard: Category 3

HAZARD SYMBOL : No symbol

Warning

HAZARD STATEMENTS :

H320 - Causes eye irritation

H402 - Harmful to aquatic life

PRECAUTIONARY STATEMENTS :

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P273 - Avoid release to the environment.

P264 - Wash face, hands and any exposed skin thoroughly after handling.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P501 - Dispose of contents/container to an approved waste disposal plant.

OTHERS

Other hazards Not available

3. COMPOSITION / INFORMATION ON INGREDIENTS

Single Substance or Mixture Mixture

Component	Formula	CAS No.	Content
Sodium acetate	CH ₃ COONa	127-09-3	20.0%
Magnesium sulfate	MgSO ₄	7487-88-9	80.0%

4. FIRST AID MEASURES

ORAL EXPOSURE

Rinse mouth. Never give anything by mouth to an unconscious person. Immediate medical attention is required. Do not induce vomiting without medical advice.

INHALATION EXPOSURE

Remove to fresh air. Call a physician immediately.

DERMAL EXPOSURE

Wash off immediately with soap and plenty of water. Get medical attention if irritation develops and persists.

EYE EXPOSURE

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediate medical attention is required.

PROTECTION OF FIRST AIDERS

Use personal protective equipment as required.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA :

Carbon dioxide, dry chemical powder, foam, water.

FIRE & EXPLOSION HAZARDS :

Toxic, irritating dust or smoke may be emitted.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS :

Firemen should wear normal protective equipment (full bunker gear) and positive-pressure self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS :

Ventilate the area thoroughly. Use protective equipment as described in Section 8. Avoid raising dust. Avoid breathing dust, vapours, mist or gas

ENVIRONMENTAL PRECAUTIONS :

Do not let product enter drains

METHODS FOR CLEANING UP :

Pick up without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

PRECAUTION FOR SAFE HANDLING :

Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Handle material with suitable protection away from source of heat or ignition and use non-sparking type tools. Use explosion-proof electrical equipments and lighting.

CONDITIONS FOR SAFE STORAGE :

Store away from sunlight in well-ventilated dry place at room temperature (preferably cool place). Keep container tightly closed.

INCOMPATIBILITIES :

Strong oxidizing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection	Protective mask
Hand protection	Impermeable protective gloves
Eye protection	protective eyeglasses or chemical safety goggles
Skin and body protection	Long-sleeved work clothes, protective boots

GENERAL HYGIENE CONSIDERATIONS

Handle in accordance with good industrial hygiene and safety practice.
Wash hands before breaks and at the end of the workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

《As Magnesium sulfate》

APPEARANCE :	White Powder
ODOUR :	No data available
pH :	6.0-9.0(50g/L,25°C)
MELTING POINT :	1,185°C
INITIAL BOILING POINT :	No data available
FLASH POINT :	No data available
FLAMMABILITY (solid, gas) :	-----
EXPLOSIVE LIMITS :	No data available
VAPOR PRESSURE :	No data available
SPECIFIC GRAVITY :	2.66
SOLUBILITY IN ;	
WATER :	Miscible
ETHANOL :	Non-miscible
PARTITION COEFFICIENT :	No data available
DECOMPOSITION	No data available
TEMPERATURE :	

《As Sodium acetate》

APPEARANCE :	White Powder
ODOUR :	No data available
pH :	7.5-9.0(50g/L,25°C)
MELTING POINT :	>300°C
INITIAL BOILING POINT :	No data available
FLASH POINT :	No data available
FLAMMABILITY (solid, gas) :	-----
EXPLOSIVE LIMITS :	No data available
VAPOR PRESSURE :	No data available
SPECIFIC GRAVITY :	1.528
SOLUBILITY IN ;	
WATER :	Miscible
ETHANOL :	Miscible
PARTITION COEFFICIENT :	No data available
DECOMPOSITION	No data available
TEMPERATURE :	

10. STABILITY AND REACTIVITY

STABILITY

Stable: Stable.

Conditions to Avoid: Moisture.

Materials to Avoid: Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: sulfur oxides, magnesium oxide, carbon oxides, carbon dioxide .

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY(oral/dermal/inhalation) : Not available as the mixture

Acute toxicity

No data available

Skin irritation/corrosion

No data available

Serious eye damage/ irritation

Category 2B
Respiratory sensitization
No data available
Skin sensitization
No data available
Germ cell mutagenicity
No data available
Carcinogenicity
No data available
Reproductive toxicity
No data available
Effects on or via lactation
No data available
STOT -single exposure
No data available
STOT -repeated exposure
No data available
Aspiration Hazard
No data available
Hazardous to the aquatic environment, acute hazard
Category 3
Hazardous to the aquatic environment, long-term hazard
No data available

12. ECOLOGICAL INFORMATION

REPRODUCTIVE TOXICITY

《As Magnesium sulfate》

Algae / aquatic plants : EC50:Desmodesmus subspicatus 2700 mg/L 72 h
fish : LC50:Pimephales promelas 2610 - 3080 mg/L 96 h
crustacean : EC50:Daphnia magna 266.4 - 417.3 mg/L 48 h

《As Sodium acetate》

Algae / aquatic plants : Not available
fish : Not available
crustacean : EC50:Daphnia magna 1000 mg/L 48 h

BIODEGRADABILITY : Not available

BIOACCUMULATION POTENTIAL : Not available

AQUATIC TOXICITY : Not available

OTHER INFORMATION : Not available

13. DISPOSAL CONSIDERATION

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

14. TRANSPORT INFORMATION

IATA Not regulated
UN number :-
Proper shipping name :-
UN classification :-
Subsidiary hazard class :-

Packing group : -
Environmentally Hazardous : Not applicable
Substance

15. REGULATORY INFORMATION

Japanese regulations

Fire Service Act: Not applicable
Poisonous and Deleterious Substances Control Law: Not applicable
Industrial Safety and Health Act: Not applicable
Regulations for the carriage and storage of dangerous goods in ship: Not applicable
Civil Aeronautics Law: Not applicable
Pollutant Release and Transfer Register Law: Not applicable

《As Sodium acetate》

Marine Pollution Prevention Law: Enforcement ordinance Appendix No. 1 Noxious liquid substance Category Z

16. OTHER INFORMATION

DISCLAIMER

For R&D use only. Not for drug, household or other uses.

The above information is believed to be correct to be the best of our knowledge and information but does not purport to be all inclusive and shall be used only as a guide. This product is intended to be used by expert persons having chemical knowledge and skill, at their own discretion and risk and Shinwa shall not be held liable for any damageresulting from handling or from contact with the above material.