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Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : KALIGREEN
 Manufacturer : OAT Agrio Co., Ltd.
 Address : 1-3-1 Kanda Ogawa-machi, Chiyoda-ku, Tokyo 101-0052, Japan
 Phone : +81-88-684-0220 (Quality Assurance Section, Japan)
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 Emergency phone No. : +81-3-5283-0256 (Head Office, Japan)
 Product No. (SDS No.) : OAT0305E-2
 Restrictions use : Fungicide

2. HAZARDS IDENTIFICATION

GHS Classification

Health hazards

Acute toxicity (Oral)	Category 5
Acute toxicity (Dermal)	Not classified
Skin corrosion/irritation	Not classified
Eye damage/irritation	Not classified
Skin sensitization	Not classified

GHS label elements

Symbol	No symbol	
Signal words	Warning	
Hazard statements	May be harmful if swallowed	H303
Precautionary statements		
Response	Call a POISON CENTER or doctor/physician if you feel unwell. (P312)	

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/mixture : Mixture

Ingredient name	Composition (%)	CAS No.
Potassium hydrogen carbonate	82	298-14-6
Surfactants and others	18	-

4. FIRST-AID MEASURES

Inhalation

Move to fresh air. If breathing is difficult, oxygen may be beneficial if administered by trained personnel, preferably on a doctor's advice. Call a poison control center or doctor for further treatment advice.

Skin contact

Take off contaminated clothing. Immediately wash skin with soap and copious amounts of water. Seek medical attention if symptoms occur. Launder clothing before reuse.

Eyes contact

Immediately flush eyes with copious amounts of water for at least 15 minutes. Get medical attention.

Ingestion

Immediately call a poison control center or doctor for treatment advice.

Have victim drink 240 to 300 mL of water to dilute material in stomach. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything to an unconscious person.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Foam, dry chemical, dry sand or carbon dioxide

Specific Hazards

Give off carbon dioxide if heated to decomposition.

Specific fire-fighting measures

In fire situations involving the surrounding area, cool the product down with plenty of water. Move container to safe place if you can do it without risk.

Protection of fire-fighters

Wear full fire-fighting turnout gear (full bunker gear) and respiratory protection (self-contained breathing apparatus).

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Wear appropriate personal protective equipment (refer to Section 8) during clean-up. Avoid contact with eyes and skin. Avoid inhalation of dust.

Environmental Precautions

Avoid entry into the water way.

Methods for cleaning up

Shut off all sources of ignition. Avoid raising dust.

Clean up promptly by sweeping or vacuum. Use approved industrial vacuum cleaner for removal.

Shovel into suitable container for disposal.

Wash spill site after material pick-up is complete.

7. HANDLING AND STORAGE

Handling

Handle with appropriate personal protective equipment (refer to Section 8) under ventilation.

Avoid contact with eyes and skin. Avoid inhalation of dust. Avoid prolonged or repeated exposure.

Avoid raising dust.

Wash hands thoroughly after handling.

Laundry clothing before reuse.

Follow good industrial hygiene practices for ventilation and clean up.

Storage

Keep containers tightly closed in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PRECAUTION

Engineering measures

Mechanical exhaust and/or local exhaust are necessary.

Control parameters

There is no TLV specified by ACGIH.

Personal protective equipment

Respiratory protection : Dust mask

Hand protection : Rubber gloves

Eyes protection : Safety goggles

Skin and body protection : Long-sleeved shirt and long pants and shoes plus socks

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical properties

Appearance : Powder

Color : Whitish

Odor : Anomaly odor

pH : 8.5

Phase change temperature

Boiling point : Not applicable/Active ingredient

Melting point/Freezing point : Not applicable/Active ingredient

Decomposition temperature : Start at 100°C, and decompose into potassium carbonate, carbon dioxide and water at 200°C. /Active ingredient

Flash point : Not determined

Auto ignition temperature : Not determined

Vapor pressure : Not applicable/Active ingredient

Vapor density	: Not determined
Bulk density	: 0.55
Solubility	
Solubility in water	: 600 g/L (60°C)/Active ingredient
Octanol /water partition coefficient (log Pow)	: Not determined
Other data	
Explosion limit	: Not determined

10. STABILITY AND REACTIVITY

Stability

This product is stable under normal condition of handling and storage.

Conditions to avoid

Avoid store in high temperature.

Materials to avoid

Oxidizing agents

Hazardous decomposition products

This product is decomposed at above 100°C, and generate harmful gas such as carbon dioxide.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Oral LD₅₀ : 3822 mg/kg (Male rats), 2931 mg/kg (Female rats)

Dermal LD₅₀ : >2020 mg/kg (Male and female rabbits)

Skin corrosion/irritation

Mild irritation (Rabbits)

Serious eye damage/eye irritation

Minimal irritation (Rabbits)

Sensitization

Skin sensitization : Negative (Guinea-pigs)

12. ECOLOGICAL INFORMATION

Aquatic toxicity : Not available

13. DISPOSAL CONSIDERATIONS

Waste from residues/unused products: In accordance with local and national regulations. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. Do not allow material to contaminate ground water system. Do not contaminate surface water.

Contaminated packing: Do not re-use empty containers. Do not contaminate ponds, water ways or ditches with chemical or used container.

14. TRANSPORT INFORMATION

The cautions which should be taken during transportation are same as the cautions mentioned in Section 7. In case of accidental release or fire during transportation, see the instructions given in Sections 5, 6, 7 and 8 above.

UN No. : Not applicable

UN CLASS : Not applicable

15. REGULATORY INFORMATION

Other regulatory information

Follow all regulations in your country.

OAT Agrio Co., Ltd. is not able to check up the regulatory information in regard to this product in your country or region. Therefore, we request this matter would be filled by your responsibility.

16. OTHER INFORMATION

Reference

OAT Agrio's published and unpublished data

Limitation of our responsibility

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