

## SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE SUBSTANCE AND THE SUPPLIER

<b>Product name:</b>	Kasugamycin 20G/L SL
<b>Other name:</b>	/
<b>Recommended use of the chemical and restrictions on use</b>	Fungicide
<b>Supplier name:</b>	Shandong Weifang Rainbow Chemical Co., Ltd.
<b>Supplier address:</b>	Binhai Economic Development Area, Weifang, Shandong, China
<b>Supplier phone:</b>	+86-531-88875222, 88875231
<b>Supplier fax:</b>	+86-531-88875232, 88875224
<b>Emergency phone number:</b>	+86-531-88875222

### 2. HAZARDS IDENTIFICATION

**Hazard statement(s):**

Harmful if inhaled. May be harmful if absorbed through skin. May damage fertility or the unborn child. May cause damage to blood system, lung, through prolonged or repeated exposure

Harmful to aquatic life with long lasting effects.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

<b>Chemical Name</b>	<b>CAS No.</b>	<b>Concentration</b>
Flumioxazin	6980-18-3	20 g/L
Other ingredients	/	Up to 1L

### 4. FIRST AID MEASURES

**Description of necessary first aid measures**

**Inhalation:** Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately. Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical.

**Skin contact:** Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor.

**Eye contact:** Rinse with pure water for at least 15 minutes. Consult a doctor.

**Ingestion:** Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately.

**Most important symptoms/effects, acute and delayed**

No data available

### 5. FIRE FIGHTING MEASURES

**Suitable extinguishing media:**

Dry chemical powder, fire foam, carbon dioxide or dry sand etc.

**Special hazards arising from the chemical:**

Irritating, corrosive or toxic gases may be generated by fire.

**Special protective actions for fire-fighters:**

Wear self-contained breathing apparatus for firefighting if necessary.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:**

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Avoid dust formation. Avoid breathing mist, gas or vapours. Avoid contacting with skin and eye. Use personal protective equipment. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

### Methods and materials for containment and cleaning up:

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

## 7. HANDLING AND STORAGE

### Precautions for safe handling:

Handling in a well-ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

### Conditions for safe storage, including any incompatibilities:

Store the container tightly closed in a dry, cool and well-ventilated place. Store apart from foodstuff containers or incompatible materials.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Appropriate engineering controls:

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk-elimination area.

### Personal protective equipment:

**Respiratory protection:** If the exposure limits are exceeded, irritation or other symptoms are experienced, use a full-face respirator.

**Eye protection:** Wear tightly fitting safety goggles with side-shields or face shield.

**Skin and body protection:** Wear protective clothing including chemical impermeable gloves, long sleeved shirt, long pants, shoes and socks.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance (physical state, color etc.):</b>	Clear and transparent liquid
<b>Odor</b>	Faint characteristic
<b>Flammability (solid, gas):</b>	No data available
<b>Explosive properties</b>	No data available
<b>Oxidising properties</b>	No data available
<b>pH</b>	3.7-4.1
<b>Relative density:</b>	1.01 g/mL at 20°C
<b>Solubility(ies):</b>	228 g/l in water at 25°C

## 10. STABILITY AND REACTIVITY

### Chemical stability:

Stable under normal condition.

### Incompatible materials:

May react with strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

### Hazardous decomposition products:

In case of fire, toxic decomposition products may be generated.

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### 11. TOXICOLOGICAL INFORMATION

#### Numerical measures of toxicity:

Acute oral LD50:	>5000 mg/kg in the rat
Acute dermal LD50:	>2000 mg/kg in the rat
Acute inhalation LC50:	>2.07 mg/L in the rat, 4h (whole body)
Skin irritation:	Non-irritating to skin (rabbits).
Eye irritation:	Non-irritating to eyes (rabbits).
Skin sensitization:	Non-sensitizing (guinea pig).

### 12. ECOLOGICAL INFORMATION

#### Ecotoxicity:

Birds - Acute LD50:	> 4000 mg/kg in the Bobwhite quail
Fish - Acute 96 hour LC50:	> 40 mg/L in the Carp
Aquatic invertebrates - Acute 48 hour EC50:	>40 mg/L in the Daphnia magna
Honeybees - contact acute 48 hour LD50	> 40 µg/bee

### 13. DISPOSAL CONSIDERATIONS

#### Safe handling of waste residues and disposal methods:

##### Product:

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

##### Contaminated packaging:

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill.

### 14. TRANSPORT INFORMATION

#### UN number:

3082

#### UN proper shipping name:

Environmentally hazardous liquid substance, n.o.s.

#### Transport hazard class(es):

9

#### Packing group, if applicable:

III

### 15. REGULATORY INFORMATION

The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given.

Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and /or local laws.

### 16. OTHER INFORMATION

The data given here is based on current knowledge and experience. The purpose of this safety data sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.