

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

- Product name: **CitriWax Dual**
- Company identification: ICA International Chemicals
- Address: 28 Planken street, Plankenbrug Industrial, Stellenbosch, 7601 South Africa
- Telephone number: +27-(0)21-8869812
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2. COMPOSITION/INFORMATION ON INGREDIENTS

- Substance:**
- Generic name: Fruit coating emulsion (Polyshine 1660) with fungicide (Gauzatine)
- Synonyms: Wax emulsion with fungicide
- Ingredients:
- | | |
|---|---------|
| Fruit coating emulsion (Polyshine 1660) | 997 g/L |
| Polyethylene wax (CAS no. 68441-17-8) | 10-30% |
| Shellac | <10% |
| Fungicide | 3 g/L |
| Gauzatine acetates (3 g/L) | |

3. HAZARDS IDENTIFICATION

- HARMFUL
- Harmful if swallowed (R 22)
Irritating to eyes (R 36)
Poisonous if inhaled (R23)

4. FIRST-AID MEASURES

- Skin: Remove contaminated clothing. Wash affected areas with plenty of soap and water.
- Eye: Immediately irrigate with copious quantities of water for at least 15 minutes. Seek medical assistance and provide MSDS.
- Swallowed: Give plenty of water to drink and if more than 15 minutes from hospital induce vomiting. Seek immediate medical assistance and provide MSDS.
- Inhaled: Remove victim to fresh air. Seek medical advice
- Advice to doctor: No specific antidote known. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

- Not flammable, danger of toxic gases in smoke in case of fire: carbon and nitrogen oxides.
- Recommended Fire-fighting media: foam, carbon dioxide, dry powders, waterspray.
- Contain the spread of the fire-fighting media.
- Wear self-contained breathing apparatus.
- Additional information: Apply cold water in order to cool containers exposed to danger

6. ACCIDENTAL RELEASE MEASURES

CONTAIN SPILL and recover the product by pumping, suction or absorption by using earth, sand, sawdust, clay, sweepings material or absorbent material and store in properly labeled, sealed drums for safe disposal in an approved landfill, or bury under at least 500 mm of soil in a non-crop, non-pasture area away from water sources or homes. DO NOT burn empty containers or product. Keep people away and upwind of spill.

- **Personal Precautions:**
- Eye/Face/Body: Chemical splash goggles and overalls should be worn when working with emulsions.
- Hands: Use neoprene, butyl rubber, or vinyl gloves
- Environmental Precautions: Prevent entry into waterways, sewers, drains, basements or confined areas.
- Additional Instructions: Spillage or uncontrolled discharges into watercourses must be alerted to the Department of Water Affairs and other appropriate regulatory bodies.

7. HANDLING AND STORAGE

- Handling: Avoid contact with eyes, skin and clothing or inhalation of product. Wear long sleeved overalls and gloves while handling. After handling and before eating, drinking or smoking wash hands, arms and face with soap and water.
- Storage: Keep out reach of children in locked room. Keep away from food, drink and animal feeding stuffs. Store in original container in dry, cool well-ventilated area, out of direct sunlight. Store at temperature between 5 and 35°C. If kept at a higher temperature for prolonged periods the emulsion will become unstable. If the emulsion is not kept in airtight containers the water will eventually evaporate, leaving a wax film on the surface.
- Incompatible products: Strong acids and alkali's could cause the emulsion to break

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Ingredients with occupational exposure limits: None
- Engineering measures: General ventilation should be provided to maintain ambient concentration below nuisance levels.
- Personal Protective equipment: Respiratory protection: None required under normal operating conditions. Where vapours or mists may occur, wear approved half-mask air purifying respirator.
PVC Face shield and Chemical splash goggles should be worn to protect eyes and face against hot splashes
- Additional instructions: Wash after handling

9. PHYSICAL AND CHEMICAL PROPERTIES

- Colour: Red/Brown milky emulsion
- Formulation type: Soluble concentrate
- Odour: Waxy
- Density at 20°C: 1.0 kg/l
- Solubility in water (20°C): Dilutable
- pH-value: 9.6
- Physical state: Liquid
- Explosion properties: None

10. STABILITY AND REACTIVITY

- Stable under normal conditions of use.
- Conditions to avoid: Prolonged storage above 35°C may interfere with quality
- Material to avoid: Avoid contact with strong acids and alkali's
- Hazardous decomposition product: Flue gas, carbon monoxide, aldehydes in the case of incomplete combustion
- Thermal Decomposition: Approx. 250°C

11. TOXICOLOGICAL INFORMATION

- Acute LD₅₀ oral (rat): 300 – 500 mg/kg (ICA 70 % Technical Grade Gauzatine)
- Acute LD₅₀ dermal (rat): > 1000 mg/kg (Generic Gauzatine, Technical Grade)
- Acute LD₅₀ dermal (rabbit): > 1000 mg/kg (Generic Gauzatine, Technical Grade)
- Acute LC₅₀ inhalation (rat): 225 mg/m³ (Generic Gauzatine, Technical Grade)
- Eye: Irritant to eyes.
- Skin: Irritant to skin.

The product **CitriWax Dual** has not been tested but only contain 3 g gauzatine per litre Polyshine 1660 wax. Wax products of a similar composition did not induce toxic effects on its own.

12. ECOLOGICAL INFORMATION

- **Polyshine 1660:**
The product is a water-soluble, which under environmental conditions, has no detrimental effect on plants, animals or micro-organisms. But keep away from waterways, sewers, drains, basements and confined spaces.

- **Generic Gauzatine Technical Grade:**

Dangerous to fish. DO NOT contaminate streams, rivers or waterways with the chemical or used containers.

Not toxic to bees.

Non-teratogenic and non-carcinogenic (rats).

In rats, following oral administration, rapid and complete degradation occurs, with elimination in the urine and faeces within 2-3 days.

When applied directly to soil, gauzatine is strongly bound temporarily, before undergoing deguanidation and breakdown of the octyl chain, following by mineralisation to CO₂. It is immobile in soil and is therefore unlikely to exceed 0.1 µg/litre in groundwater.

LC₅₀ (96 h) for rainbow trout 1.41 mg/litre

LC₅₀ (48 h) for daphnia 0.15 mg/litre

Acute oral LD₅₀ for pigeons is 82 mg/kg with emetic effect.

LC₅₀ (contact) for bees >200 µg/bee

LC₅₀ (14 d) for earthworms >1000 mg/kg

13. DISPOSAL CONSIDERATIONS

- With respect to local and national regulations, e.g. suitable landfill site or dispose of to waste incineration plant. Empty, rinsed punctured containers may be buried according to local recommendation.
- Do not use containers for any other purposes.

14. TRANSPORT INFORMATION

- Proper shipping name: Pesticide, Liquid, Toxic (Gauzatine)
- UN Number: 2902
- Hazard Class Of Division: 6.1
- Packing Group: III
- Labeling Requirements: Poison
- Risk phrase: R 22 (Harmful if swallowed), R23 (Toxic by inhalation), R36 (Irritating to eyes).

15. REGULATORY INFORMATION

Users should ensure that they comply with any relevant local, regional or national legislation. Contact your national regulations officer.

16. OTHER INFORMATION

For use as an postharvest fungicide and fruit coating emulsion on green fruit in citrus.

Although the information contained herein is presented in good faith and to the best of ICA International Chemicals's knowledge and experience, it is made without any warranty or guarantee whatsoever.