



## MATERIAL SAFETY DATA SHEET (91 / 155 / EC)

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### 1. Identification of the substance / preparation and of the company / undertaking

- Trade name: **FLORIMP K VERDE ®**
- Supplier: AISCO Chemieprodukte GmbH  
Basler Straße 115 D-79115 Freiburg  
Tel.: +49 (0) 761 / 7073913 Fax: +49 (0) 761 / 7073 914
- Product responsibility: Chemical Laboratory, AISCO-Chemieprodukte
- Emergency telephone: Universitätsklinik Freiburg, Germany, Tel: 0049 (0) 761-270-4361

### 2. Composition / information on ingredients

- Description: aqueous solution of nitrogene- and phosphorous- containing inorganic and organic salts
- Information on ingredients: not applicable

**3. Hazards identification:** No hazard classification according to EU Guidelines

### **4. First – Aid measures:**

- Inhalation: Move to fresh air. Seek medical attention if you feel unwell or if exposure prolonged.
- Skin contact: Rinse immediately with plenty of water for at least 15 minutes.
- Eye contact: Rinse immediately with plenty of water for at least 15 minutes with open eyes.
- Ingestion: Call for doctor instantly, do not induce vomiting
- Advice for the doctor: Symptomatic treatment, show him this safety data sheet.

### **5. Fire – fighting measures:**

- Fire extinguishing agents: Choose extinguishing agents taking into account the surroundings.
- Restrictions: No restrictions
- Fire / explosion hazard: None
- Main combustion gas: Not known
- Personal protection: Self contained breathing apparatus.

### **6. Accidental release measures:**

- personal protection: Tightly fitting safety goggles, protective rubber gloves.  
Keep unprotected persons away.
- Environmental precautions: Prevent material from reaching sewage systems, holes and cellars. Do not allow to enter the ground / soil.
- Spillage procedure: Contain with suitable absorbent material. Scoop into marked containers for disposal as chemical waste.
- Additional information: ---

## 7. Handling and storage:

- Occupational hygiene: Avoid ingestion, inhalation, skin and eye contact. Handle in accordance with good industrial hygiene practice and any legal requirements.
- Fire precautions: No special measures required.
- Storage facilities: Store in a cool, dry adequate ventilation.
- Segregation: No special precautions.
- Storage conditions: Sensitive to heat over 40°C and to cold under 0°C.  
Keep containers closed.  
Ensure good ventilation / exhaustion at the workplace.

## 8. Exposure controls and personal protection:

- Components with occupational exposure limits: See national regulations.
- Personal protection: Tightly fitting safety goggles. Protective rubber gloves.  
Keep unprotected persons away.

## 9. Physical and chemical properties:

- Appearance: liquid
- colour: clear
- odour: odourless
- pH: 5.5 at 20°C
- boiling point: 100°C
- flash point: --
- auto – ignition: --
- explosion limits: --
- density: 1.1 g / cm<sup>3</sup>
- solubility in water: miscible

## 10. Stability and reactivity:

- conditions to avoid: No dangerous reactions known.
- materials to avoid: None
- hazardous decomposition products:: None known if product is used according to recommendations.
- additional information: --

## 11. Toxicological information:

- Acute toxicity: (LD 50) > 2000 mg / kg
- primary irradiation: (skin) non-irritant EG 83 OECD 404  
(eye) non-irritant EG 83 OECD 405
- skin sensitisation: not sensitizing

## 12. Ecological information

- Bioelimination: 25 – 50 %, TOC analysis
- ecotoxicological data:
- bacterial toxicity: IC 50 > 300 mg / l
- fish toxicity: LC 0 1000 mg / l  
LC 50 > 1000 mg / l 48 h rainbow trout OECD 203
- nitrogen content: ca. 7 %
- phosphorus content: ca. 4 %

### 13. Disposal considerations:

- Product: Incineration. Observe local regulations.
- Contaminated packing: Contaminated, empty containers must be disposed of as chemical waste.

### 14. Transport information:

- |                     |      |                     |      |               |
|---------------------|------|---------------------|------|---------------|
| - UN Number ADR/RID | FREE | - ADR / RID – Class | FREE | Packing group |
| - UN Number IMO     | FREE | - IMDG Class        | FREE | Packing group |
| - UN Number ICAO    | FREE | - ICAO Class        | FREE | Packing group |

### 15. Regulatory information:

- Classification and Labelling: Not classified as hazardous
- R / S – Phrases: None

16. Other information: To use as fire-retarding product.  
Keep away from foodstuffs.