

Material Safety Data Sheet
According to 91/155 EC

Printing date 10.04.2003

Version: 1

Reviewed on 10.04.2003

Product details

- **Trade name:** Chrysal AVB
- **Article number:** T541Exp (P1513)
- **Application of the substance / the preparation:** Cut flower pretreatment product
- **Manufacturer/Supplier:**
Pokon & Chrysal BV
P.O. Box 5300
1410 AH NAARDEN
The Netherlands
Tel.: +31-(0)35-6955888
Fax: +31-(0)35-6955822
- **Further information obtainable from:**
Department: Regulatory Affairs
Contact: P. Herman
- **Information in case of emergency:** Tel.: +31-(0)35-6955851

Chemical characterization

- **Description:** Mixture of substances listed below with nonhazardous additions.

Dangerous components:

| | | | |
|-------------------|----------------|------------------|--------|
| CAS: 7761-88-8 | silver nitrate | C, N; R 34-50/53 | ≤ 2.5% |
| EINECS: 231-853-9 | | | |

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

Hazard description: Not applicable.

Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

To avoid risks for humans and environment obtain instructions.

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:** Generally the product does not irritate the skin.

· **After eye contact:** Seek immediate medical advice.

· **After swallowing:**

Rinse out mouth and then drink plenty of water.

Seek immediate medical advice.

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- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:** No special measures required.

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

- **Handling:**
- **Information for safe handling:** No special precautions are necessary if used correctly.
- **Information about fire - and explosion protection:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:**
Keep out of reach of children.
Store in a cool place.
Store in the dark.
- **Minimum storage temperature:** 4°C

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Ingredients with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Do not eat, drink, smoke or sniff while working.
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
- **Respiratory protection:** Not required.
- **Protection of hands:**
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Goggles recommended during refilling

· **General Information**

| | |
|------------------|----------------|
| · Form: | Fluid |
| · Colour: | Colourless |
| · Odour: | Characteristic |

· **Change in condition**

· **Melting point/Melting range:** Undetermined.
· **Boiling point/Boiling range:** 100°C

· **Flash point:** Not applicable.

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Vapour pressure at 20°C:** 23.0 hPa

· **Density at 20°C:** 1.144 g/cm³

· **Solubility in / Miscibility with water:** Not miscible or difficult to mix.

· **pH-value at 20°C:** 5.8

| | |
|----------------------------|--------|
| · Solvent content: | |
| · Organic solvents: | 0.0 % |
| · Water: | 78.2 % |

· **Solids content:** 21.8 %

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

· **Materials to be avoided:** Metals

· **Dangerous reactions** No dangerous reactions known.

· **Dangerous decomposition products:** No dangerous decomposition products known.

· **Acute toxicity:**

· **Primary irritant effect:**

· **on the skin:** No irritant effect.

· **on the eye:** No irritating effect.

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· **Sensitization:** No sensitizing effects known.

· **Ecotoxicological effects:**
 · **Remark:** Harmful to fish
 · **General notes:**
 Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
 Do not allow product to reach ground water, water course or sewage system.
 Danger to drinking water if even small quantities leak into the ground.
 Harmful to aquatic organisms

· **Product:**
 · **Recommendation**
 Must not be disposed together with household garbage. Do not allow product to reach sewage system.
 · **Uncleaned packaging:**
 · **Recommendation:** Disposal must be made according to official regulations.

· **Land transport ADR/RID (cross-border)**
 · **ADR/RID class:** -
 · **Maritime transport IMDG:**
 · **IMDG Class:** -
 · **Marine pollutant:** No
 · **Air transport ICAO-TI and IATA-DGR:**
 · **ICAO/IATA Class:** -

*
 · **Labelling according to EU guidelines:**
 The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
 · **Risk phrases:**
 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 · **Safety phrases:**
 2 Keep out of the reach of children.
 13 Keep away from food, drink and animal feedingstuffs.
 20/21 When using do not eat, drink or smoke.
 29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
 64 If swallowed, rinse mouth with water (only if the person is conscious).
 · **Special labelling of certain preparations:**
 To avoid risks for humans and environment obtain instructions.

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· **National regulations:**

- **Waterhazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant R-phrases**

- 34 Causes burns.
- 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· **Department issuing MSDS:** Department: Regulatory Affairs

· **Contact:** P. Herman

· * **Data compared to the previous version altered.**

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