

Material Safety Data Sheet
acc. to ISO/DIS 11014

Printing date 07/28/2011

Version: 1

Reviewed on 07/28/2011

1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
- **Trade name:** Chrysal Clear Bulb T-bag
- **Article number:** C371TB
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation** Cut flower food (professional product)
- **Details of the supplier of the safety data sheet**
Chrysal International BV
PO BOX 5300
1410 AH Naarden
The Netherlands
T.: +31 35 6955888
- **Manufacturer/Supplier:**
Chrysal Colombia S.A:
Cra 106 No. 15-25
Manzana 9, Bodega 21
Bogotá - Colombia

Tel. (571) 4046529
- **Information department:** Mrs. Alejandra Rodríguez
- **Emergency telephone number:**
Tel.: (57) 3165281657
Emergency Contact Number (outside office hours): +018132480585

2 Composition/information on ingredients

- **Chemical characterization:** Mixtures
- **Description:** Mixture of substances with nonhazardous additions.

· **Dangerous components:**

77-92-9	citric acid	2.5-10%
---------	-------------	---------

3 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** Void
- **Information concerning particular hazards for human and environment:**
No hazards to be particularly mentioned. Please note the information of this Material Safety Data Sheet.
- **Classification system:**
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
- **Additional information:** Canadian Hazard Symbols: This is not a "controlled product" under WHMIS

· **Label elements**

- **Labelling according to EU guidelines:** Observe the general safety regulations when handling chemicals.
- **Classification system:**
- **HMIS-ratings (scale 0 - 4)**

HEALTH	0	Health = 0
FIRE	0	Fire = 0
REACTIVITY	0	Reactivity = 0

(Contd. on page 2)

Material Safety Data Sheet
acc. to ISO/DIS 11014

Printing date 07/28/2011

Version: 1

Reviewed on 07/28/2011

Trade name: Chrysal Clear Bulb T-bag

(Contd. of page 1)

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

4 First aid measures

- **Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
Rinse with warm water.
Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:**
Rinse out mouth and then drink plenty of water.
When physical complaints arise, consult a doctor.

5 Firefighting measures

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

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:**
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage
- **Methods and material for containment and cleaning up:** Pick up mechanically.
- **Reference to other sections** No dangerous substances are released.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling** No special measures required.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:**
Store in dry conditions.
Keep out of reach of children.
- **Maximum storage temperature:** 40°C

USA

(Contd. on page 3)

Material Safety Data Sheet
acc. to ISO/DIS 11014

Printing date 07/28/2011

Version: 1

Reviewed on 07/28/2011

Trade name: Chrysal Clear Bulb T-bag

(Contd. of page 2)

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components 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 that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
The usual precautionary measures for handling chemicals should be followed.
- **Breathing equipment:** Not required.
- **Protection of hands:** Not required.
- **Material of gloves -**
- **Penetration time of glove material -**
- **Eye protection:** When following instructions eye protection is not necessary

9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	Powder
Color:	White
Odor:	Characteristic
- **Change in condition**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
- **Flash point:** Not applicable.
- **Ignition temperature:** 1010.0°C (1850°F)
- **Auto igniting:** Product is not selfigniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Density:** Not determined.
- **Solubility in / Miscibility with Water:** Soluble.
- **Solvent content:**

Organic solvents:	0.0 %
Solids content:	100.0 %

10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

(Contd. on page 4)

Material Safety Data Sheet acc. to ISO/DIS 11014

Printing date 07/28/2011

Version: 1

Reviewed on 07/28/2011

Trade name: Chrysal Clear Bulb T-bag

(Contd. of page 3)

- **Possibility of hazardous reactions** No dangerous reactions known.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
 - **on the skin:** No irritant effect.
 - **on the eye:** Irritation is possible.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**

The product is not subject to classification according to internally approved calculation methods for preparations:
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12 Ecological information

- **Toxicity**
- **Acquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Additional ecological information:**
- **General notes:**

Generally not hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.
- **Uncleaned packagings:**
- **Recommendation:**

Disposal must be made according to official regulations.
Non contaminated packagings can be treated like household garbage.
- **Recommended cleansing agent:** Water, if necessary with cleaning agents.

14 Transport information

- **DOT regulations:**
- **Hazard class:** -

(Contd. on page 5)

Material Safety Data Sheet
acc. to ISO/DIS 11014

Printing date 07/28/2011

Version: 1

Reviewed on 07/28/2011

Trade name: Chrysal Clear Bulb T-bag

(Contd. of page 4)

· **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:** -

· **Special precautions for user** Not applicable.

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
· **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenicity categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

· **MAK (German Maximum Workplace Concentration)**

None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

(Contd. on page 6)

Material Safety Data Sheet
acc. to ISO/DIS 11014

Printing date 07/28/2011

Version: 1

Reviewed on 07/28/2011

Trade name: Chrysal Clear Bulb T-bag

(Contd. of page 5)

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

· Chemical safety assessment: *A Chemical Safety Assessment has not been carried out.*

16 Other information

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.

· Department issuing MSDS:

Chrysal International BV, the Netherlands

Department: Product Safety & Regulatory Affairs

USA