

SECI	TION 1: IDENTIFICATION
1.1	GHS Product identifier: Chrysal Professional 2 T-bag
1.1	Other means of identification:
	Code: 379.xxx.xxx
1.2	Recommended use of the chemical and restrictions on use:
1.2	Relevant uses: cut flower conditioner
	Uses advised against: All uses not specified in this section or in section 7.3
1.3	Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party:
110	Chrysal International BV
	Gooimeer 7
	1411 DD Naarden - The Netherlands Phone: +31 (0)35 6955888
	Info@chrysal.nl
1.4	Emergency phone number: ChemTel Inc. 1-800-255-3924 Int. +01-813-248-0585
SECT 2.1	+31 (0)35 6955827 or +31 (0)35 6955850 (during office hours: UTC+1) TION 2: HAZARD(S) IDENTIFICATION Classification of the substance or mixture:
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Skin Sens. 1A: H317 - May cause an allergic skin reaction.

Precautionary statements:

P261: Avoid breathing dust.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P501: Dispose of contents and / or containers in accordance with regulations on hazardous waste or packaging and packaging waste respectively.

Additional labeling:

Do not open the sachet (T-Bag). If the sachet is damaged avoid contact with the content.

2.3 Hazards not otherwise classified (HNOC):

Non-applicable



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2 Version: 7 (Replaced 6)

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances:

Non-applicable

3.2 Mixtures:

Chemical description: Mixture of substances

Components:

Remaining components are non-hazardous and/or present at amounts below reportable limits. The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.Therefore, in accordance with Appendix D to § 1910.1200, the product contains:

	Identification	Chemical name	Concentration
CAS:	77-92-9	Citric Acid	10 - <15 %
CAS:	26530-20-1	octhilinone (ISO)	0,0015 - <0,025 %

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

SECTION 4: FIRST-AID MEASURES

4.1 Description of necessary measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

This product is not classified as hazardous through inhalation, however, it is recommended in case of intoxication symptoms to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

By skin contact:

May cause an allergic skin reaction. In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of modifications on the skin (stinging, redness, rashes, blisters,...), seek medical advice with this Safety data Sheet

By eye contact:

Rinse eyes thoroughly with water for at least 15 minutes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

4.2 Most important symptoms/effects, acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of immediate medical attention and special treatment needed, if necessary:

Non-applicable

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable (and unsuitable) extinguishing media:

Suitable extinguishing media:

Product is non-flammable under normal conditions of storage, handling and use. In the case of combustion as a result of improper handling, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

Unsuitable extinguishing media:

Non-applicable

5.2 Specific hazards arising from the chemical:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.



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Version: 7 (Replaced 6)

SECTION 5: FIRE-FIGHTING MEASURES (continued)

5.3 Special protective equipment and precautions for fire-fighters:

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Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)

Additional provisions:

As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Only properly trained personnel should be involved in firefighting. Evacuate nonessential personnel from the fire area. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Sweep up and shovel product or other means and place in container for reuse (preferred) or disposal

For emergency responders:

See section 8.

6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.

6.3 Methods and materials for containment and cleaning up:

It is recommended:

Sweep up and shovel product or other means and place in container for reuse (preferred) or disposal

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

Comply with the current standards 29 CFR 1910 Occupational Safety and Health Standards. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Due to its non-flammable nature, the product does not present a fire risk under normal conditions of storage, manipulation and use.

C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

- D.- Technical recommendations to prevent environmental risks
 - It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

7.2 Conditions for safe storage, including any incompatibilities:

- A.- Technical measures for storage
 - Minimum Temp.: 39.2 °F
 - Maximum Temp.: 86 °F
 - Maximum time: 24 Months
- B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Do not open the sachet (T-Bag). If the sachet is damaged avoid contact with the content.



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Version: 7 (Replaced 6)

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace:

Nuisance dust: Inhalable dust 10 mg/m3 // Respirable dust 4 mg/m3

8.2 Appropriate engineering controls:

A.- Individual protection measures, such as personal protective equipment

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As a preventative measure it is recommended to use basic Personal Protection Equipment. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation, the information on clothing performance must be combined with professional judgment, and a clear understanding of the clothing application, to provide the best protection to the worker. All chemical protective clothing use must be based on a hazard assessment to determine the risks for exposure to chemicals and other hazards. Conduct hazard assessments in accordance with 29 CFR 1910.132.

B.- Respiratory protection

The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.

C.- Specific protection for the hands

Pictogram	PPE	Remarks
Mandatory hand protection	Protective gloves against minor risks	Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional /industrial users, we recommend using chemical protection gloves. Use gloves in accordance with manufacturer´s use limitations and OSHA standard 1910.138 (29CFR)

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

- D.- Ocular and facial protection
 - Non-applicable
- E.- Bodily protection

Pictogram	PPE	Remarks
	Work clothing	Replace before any evidence of deterioration.

F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
Emergency shower	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	Eyewash stations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011

The information in this section contains generic advice and guidance. Select proper emergency measures based on a risk assessment of the actual exposure situation.

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

National volatile organic compound emission standards (40 CFR Part 59):

V.O.C. (Subpart C - Consumer): 0 % weight

V.O.C. (Coatings) at 68 °F: 0 kg/m³ (0 g/L)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

*Not relevant due to the nature of the product, not providing information property of its hazards.



f compilation: 1/3/2		Version: 7 (Replaced 6)
CTION 9: PHYSIC	CAL AND CHEMICAL PROPERTIE	(continued)
Appearance:		
Physical state a	t 68 °F:	Solid
Appearance:		Powdery
Color:		White
Odor:		Odorless
Odour threshold	1:	Non-applicable *
Volatility:		
	atmospheric pressure:	Non-applicable *
Vapour pressure		Non-applicable *
Vapour pressure	e at 122 ºF:	Non-applicable *
Evaporation rate		Non-applicable *
Product descr		
Density at 68 °		Non-applicable *
Relative density		Non-applicable *
Dynamic viscosi		Non-applicable *
Kinematic visco	sity at 68 °F:	Non-applicable *
Kinematic visco	sity at 104 °F:	Non-applicable *
Concentration:		Non-applicable *
pH:		Non-applicable *
Vapour density	at 68 ºF:	Non-applicable *
Partition coeffic	ient n-octanol/water 68 °F:	Non-applicable *
Solubility in wat	er at 68 °F:	Non-applicable *
Solubility prope	rties:	Non-applicable *
Decomposition	temperature:	Non-applicable *
Melting point/fr	eezing point:	Non-applicable *
Flammability:		
Flash Point:		Non-applicable
Flammability (se	olid, gas):	Non-applicable *
Autoignition ten	nperature:	1850 °F
Lower flammab	ility limit:	Non-applicable *
Upper flammabi	ility limit:	Non-applicable *
Explosive (So	lid):	
Lower explosive	e limit:	Non-applicable *
Upper explosive	e limit:	Non-applicable *
Particle chara	cteristics:	
Median equivale	ent diameter:	Non-applicable *
Other informa	ition:	
Information v	vith regard to physical hazard cla	sses:
Explosive prope	rties:	Non-applicable *
Oxidising prope	rties:	Non-applicable *
Corrosive to me	tals:	Non-applicable *
Heat of combus	tion:	Non-applicable *
Aerosols-total p components:	ercentage (by mass) of flammable	Non-applicable *
Other safety o	haracteristics:	

*Not relevant due to the nature of the product, not providing information property of its hazards.



Date of compilation: 1/3/2020	Revised: 2/4/2022	Version: 7 (Replaced 6)	
SECTION 9: PHYSICAL AND	CHEMICAL PROPERTI	ES (continued)	
Surface tension at 68 °F:		Non-applicable *	
Refraction index:		Non-applicable *	
*Not relevant due to the nature	of the product, not providing inf	formation property of its hazards.	

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

10.2 Chemical stability:

Chemically stable under the conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Not applicable	Not applicable	Avoid direct impact	Not applicable	Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO2), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

- A- Ingestion (acute effect):
 - Acute toxicity : Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
 - Corrosivity/Irritability: Based on available data, the classification criteria are not met, however it does contain substances classified as dangerous for this effect. For more information see section 3.
- B- Inhalation (acute effect):
 - Acute toxicity : Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for inhalation. For more information see section 3.
 - Corrosivity/Irritability: Based on available data, the classification criteria are not met, however it does contain substances classified as dangerous for this effect. For more information see section 3.
- C- Contact with the skin and the eyes (acute effect):
 - Contact with the skin: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for skin contact. For more information see section 3.
 Contact with the eyes: Based on available data, the classification criteria are not met, however it does contain substances classified as dangerous for this effect. For more information see section 3.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):



Date of compilation: 1/3/2020Revised: 2/4/2022Version: 7 (Replaced 6)
SECTION 11: TOXICOLOGICAL INFORMATION (continued)
 Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3. IARC: Non-applicable Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3. Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as classified as dangerous for this effect. For more information see section 3. Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3. Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3. Sensitizing effects:
 Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3. Cutaneous: Prolonged contact with the skin can result in episodes of allergic contact dermatitis. F- Specific target organ toxicity (STOT) - single exposure:
Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3. G- Specific target organ toxicity (STOT)-repeated exposure:
 Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3. Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information substances classified as dangerous for this effect. For more information substances classified as dangerous for this effect. For more information see section 3. Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

Other information:

Non-applicable

Specific toxicology information on the substances:

Identification Acute toxicity		e toxicity	Genus
Citric Acid	LD50 oral	5400 mg/kg	Mouse
CAS: 77-92-9	LD50 dermal	2001 mg/kg	Rat
	LC50 inhalation	>5 mg/L (4 h)	
octhilinone (ISO)	LD50 oral	125 mg/kg	
CAS: 26530-20-1	LD50 dermal	311 mg/kg	
	LC50 inhalation	>20 mg/L	

SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available



Date of compilation: 1/3/2020 Revised: 2/4/2022 Version: 7 (Replaced 6) SECTION 12: ECOLOGICAL INFORMATION (continued) 12.1 Ecotoxicity (aquatic and terrestrial, where available): Acute toxicity: Identification Concentration Species Genus Citric Acid LC50 1516 mg/L (96 h) Lepomis macrochirus Fish CAS: 77-92-9 EC50 160 mg/L (48 h) N/A Crustacean EC50 Non-applicable 12.2 Persistence and degradability: Identification Degradability Biodegradability Citric Acid BOD5 Non-applicable Concentration 10 mg/L CAS: 77-92-9 COD Non-applicable Period 28 days BOD5/COD Non-applicable % Biodegradable 97 % 12.3 Bioaccumulative potential: Identification Bioaccumulation potential BCF Citric Acid -1.55 Pow Log CAS: 77-92-9

12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
Citric Acid	Кос	Non-applicable	Henry	Non-applicable
CAS: 77-92-9	Conclusion	Non-applicable	Dry soil	Non-applicable
	Surface tension	2.045E-2 N/m (663.67 °F)	Moist soil	Non-applicable

Potential

Low

12.5 Results of PBT and vPvB assessment:

Non-applicable

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods:

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations. In case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See epigraph 6.2.

Regulations related to waste management:

Legislation related to waste management:

40 CFR Part 261- IDENTIFICATION AND LISTING OF HAZARDOUS WASTE

SECTION 14: TRANSPORT INFORMATION

This product is not regulated for transport.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations specific for the product in question:



Date of compilation: 1/3/2020 Revised: 2/4/2022 Version: 7 (Replaced 6)

SECTION 15: REGULATORY INFORMATION (continued)

Toxic chemical release reporting under EPCRA section 313 (40 CFR Part 372): Non-applicable California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986): Non-applicable The Toxic Substances Control Act (TSCA) : Citric Acid ; octhilinone (ISO) Massachusetts RTK - Substance List: Non-applicable New Jersey Worker and Community Right-to-Know Act: Non-applicable New York RTK - Substance list: Non-applicable Pennsylvania Worker and Community Right-to-Know Law: Non-applicable CANADA-Domestic Substances List (DSL): Citric Acid ; octhilinone (ISO) CANADA-Non-Domestic Substances List (NDSL): Non-applicable NTP (National Toxicology Program): Non-applicable Minnesota - Hazardous substances ERTK: Non-applicable Rhode Island - Hazardous substances RTK: Non-applicable OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096): Non-applicable Hazardous Air Pollutants (Clean Air Act): Non-applicable Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) - Reportable Quantities: Non-applicable Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

Other legislation:

Take into consideration other applicable federal, state, and local laws and local regulations.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with Appendix d to §1910.1200 - Safety data sheets **Texts of the legislative phrases mentioned in section 2:**

H317: May cause an allergic skin reaction.

Advice related to training:

Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

Occupational Safety & Health Administration (OSHA).

Abbreviations and acronyms:

IMDG: International maritime dangerous goods code IATA: International Air Transport Association ICAO: International Civil Aviation Organisation COD: Chemical Oxygen Demand BOD5: 5-day biochemical oxygen demand BCF: Bioconcentration factor LD50: Lethal Dose 50 CL50: Lethal Concentration 50 EC50: Effective concentration 50 Log-POW: Octanol-water partition coefficient Koc: Partition coefficient of organic carbon IARC: International Agency for Research on Cancer

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