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Safety Data Sheet acc. to OSHA HCS

Printing date 05/21/2015

Version: 3

Reviewed on 05/21/2015

Product identifier		
Trade name: <u>Professional 1</u>	(Hydration)	
No further relevant information	he substance or mixture and uses advised ag ion available. e / the mixture Cut flower pretreatment produ	
Details of the supplier of the 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	? safety data sheet	
Tel. (571) 4046529		
Information department: Department: Regulatory Affa Chrysal Americas 1-800-247 Emergency telephone numbe ChemTel Inc. 1-800-255-392 Tel.: (57) 3165281657	per:	ınds
Hazard(s) identification	n	
Classification of the substan	nce or mixture	
• •	auses skin irritation.	
Eye Irrit. 2A H319 Ca	auses serious eye irritation.	
	ay cause an allergic skin reaction.	
•		
Skin Sens. 1 H317 Mc	armful to aquatic life with long lasting effects	
Skin Sens. 1 H317 Ma Aquatic Chronic 3 H412 Ha Label elements GHS label elements The product is classified and	armful to aquatic life with long lasting effects I labeled according to the Globally Harmoniz	
Skin Sens. 1 H317 Ma Aquatic Chronic 3 H412 Ha Label elements GHS label elements The product is classified and		
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Skin Sens. 1 H317 Ma Aquatic Chronic 3 H412 Ha Label elements GHS label elements The product is classified and Hazard pictograms GHS07 Signal word Warning Hazard-determining components alkyl alcohol etoxylated	l labeled according to the Globally Harmoniz. nents of labeling:	ed System (GHS).
Skin Sens. 1 H317 Ma Aquatic Chronic 3 H412 Ha Label elements GHS label elements The product is classified and Hazard pictograms GHS07 Signal word Warning Hazard-determining components alkyl alcohol etoxylated	l labeled according to the Globally Harmoniz	ed System (GHS).



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· Hazard stateme	
H315 Causes sk	
	prious eye irritation.
	e an allergic skin reaction.
	to aquatic life with long lasting effects.
· Precautionary	statements
P280	Wear protective gloves / eye protection.
P280	Wear protective clothing.
P273	Avoid release to the environment.
P305+P351+P	338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P302+P352	If on skin: Wash with plenty of water.
· Classification s	
· NFPA ratings ((scale 0 - 4)
	Iealth = 1
	ire = 0
	Peactivity = 0
· HMIS-ratings ((scale 0 - 4)
HEALTH 1	Health = 1
FIRE 0	Fire = 0
REACTIVITY 0	Reactivity = 0
· Other hazards	
· Results of PBT	and vPvB assessment
• PBT: Not appli	cable.
· vPvR· Not appl	icable

· vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture of substances with nonhazardous additions.

· Dangerous components:		
77-92-9	citric acid	<i>≥</i> 10<25%
	alkyl alcohol etoxylated	<i>≥</i> 5<10%
55965-84-9	mixture of: 5-chloro-2-methyl-2 H -isothiazol-3-one [EC No 247-500-7] and 2- methyl-2 H -isothiazol-3-one [EC No 220-239-6] (3:1)	0.1-<0.25%

4 First-aid measures

- \cdot Description of first aid measures
- · After inhalation: No special measures required
- After skin contact:
- Rinse with warm water.
- If skin irritation continues, consult a doctor.

· After eye contact:

- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: Rinse mouth with water and drink one or two glasses of water.

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· Most important symptoms and effects, both acute and delayed

Exposure to isothiazolinones may cause allergic skin reaction in susceptible people. Skin reactions usually occur after 24 hours or more after exposure. Sometimes mucosal irritation and respiratory problems can occur

· Indication of any immediate medical attention and special treatment needed Symptomatic treatment

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. • Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Wear protective clothing.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- · Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

• Precautions for safe handling No special precautions are necessary if used correctly.

- · 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: Not required.
- Further information about storage conditions: None.
- · Specific end use(s) No further relevant information available.

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.

· Exposure controls

- · Personal protective equipment:
- General protective and hygienic measures:
- The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

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Information on basic physical a General Information	nd chemical properties	
Appearance:		
Form:	Fluid	
Color:	Colorless	
Odor:	Odorless	
pH-value at 20 °C (68 °F):	1.2	
Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. 100 °C (212 °F)	
Flash point:	Not applicable.	
Ignition temperature:	1010 °C (1850 °F)	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Vapor pressure at 20 °C (68 °F)	: 23 hPa (17 mm Hg)	
Density at 20 °C (68 °F):	1.043 g/cm ³ (8.704 lbs/gal)	



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· Solubility in / Miscibility with		
Water:	Fully miscible.	
· Solvent content:		
Organic solvents:	0.0 %	
Water:	69.7 %	
• Other information	No further relevant information available.	

10 Stability and reactivity

· Reactivity

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · LD/LC50 values that are relevant for classification:
- The product has not been tested. The values listed below are derived from the properties of the individual components:

Oral LD50 (rat): > 5000 mg/kg Dermal LD50 (rabbit): > 5000 mg/kg Inhalation LC50 (rat): > 5000 mg/l

- Primary irritant effect:
- on the skin: Irritating (OECD 404)
- on the eye: Irritating (OECD 438)
- Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information:

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

· Toxicity

- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- Bioaccumulative potential No further relevant information available.
- *Mobility in soil* No further relevant information available.

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· Additional ecological information:

· General notes:

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Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

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.

- Packaging can be reused or recycled after cleaning.
- Recommended cleansing agent: Water, if necessary with cleaning agents.

14 Transport information

4 Transport information	
· UN-Number · DOT, ADR, ADN, IMDG, IATA	Void
· UN proper shipping name · DOT, ADR, ADN, IMDG, IATA	Void
· Transport hazard class(es)	
· DOT, ADR, ADN, IMDG, IATA · Class	Void
· Packing group · DOT, ADR, IMDG, IATA	Void
· Environmental hazards: · Marine pollutant:	No
· Special precautions for user	Not applicable.
• Transport in bulk according to Annex II MARPOL73/78 and the IBC Code	of Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	-

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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.
- · Cancerogenity categories
- · EPA (Environmental Protection Agency)
- 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.
- · GHS label elements
- The product is classified and labeled according to the Globally Harmonized System (GHS).
- Hazard pictograms



- · Signal word Warning
- Hazard-determining components of labeling: alkyl alcohol etoxylated
 - mixture of: 5-chloro-2-methyl-2 H -isothiazol-3-one [EC No 247-500-7] and 2-methyl-2 H -isothiazol-3-one [EC No 220-239-6] (3:1)
- · Hazard statements
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H317 May cause an allergic skin reaction.
- H412 Harmful to aquatic life with long lasting effects.

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P305+P351+P3	38 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P302+P352	If on skin: Wash with plenty of water.
· Chemical safety	assessment For this product a chemical safety assessment has not been carried out.

· 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 SDS: Chrysal International BV, the Netherlands Department: Product Safety & Regulatory Affairs
Date of preparation / last revision 05/21/2015 / 2

· Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A Skin Sens. 1: Sensitisation - Skin, Hazard Category 1 Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3 \cdot * Data compared to the previous version altered.