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### Material Safety Data Sheet acc. to WHMIS 2015

Reviewed on 04/06/2016 Version: 2 Printing date 04/06/2016

#### 1 Identification

· Product identifier EPA Registration No.: 71297-5-72992

· Trade name: CVBN (USA)

· Article number: T717 (T720 USA)

· Application of the substance / the mixture Cut flower pretreatment product

Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

Chrysal International BV

P.O. Box 5300

1410 AH NAARDEN

Gooimeer 7

1411 DD NAARDEN

The Netherlands

Tel.: +31 (0)35 6955888 Fax: +31 (0)35 6955822 E-mail: info@chrysal.nl

· Information department:

Department: Regulatory Affairs of Chrysal International BV, the Netherlands

Chrysal Americas 1-800-247-9725

Emergency telephone number: ChemTel Inc. 1-800-255-3924 Int. +01-813-248-0585

### 2 Hazard(s) identification

· Classification of the substance or mixture

Acute Toxicity (Oral) - Category 4 H302 Harmful if swallowed. Eye Irritation - Category 2A H319 Causes serious eye irritation. Specific Target Organ Toxicity - Single Exposure -H335 May cause respiratory irritation.

Category 3

- · Label elements
- · 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:

sodium dichloroisocyanurate, dihydrate

· Hazard statements

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

· Precautionary statements

P270 Do not eat, drink or smoke when using this product.

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P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P337+P313 If eye irritation persists: Get medical advice/attention. P402+P404 Store in a dry place. Store in a closed container.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

- · Hazard description:
- · WHMIS 1988 classification



- · Classification system:
- · NFPA ratings (scale 0 4)



The substance possesses oxidizing properties.

#### 3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · **Description:** Mixture of substances with nonhazardous additions.
- · Dangerous components: Void
- · Additional information: For the wording of the listed risk phrases refer to section 16.

### 4 First-aid measures

- · Description of first aid measures
- · General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After skin contact:

Wash with water and soap and rinse thoroughly

In case of complaints consult a doctor.

· After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing:

Seek immediate medical advice.

Rinse out mouth with water and drink 2 glases of water

- · Information for doctor: Probable mucosal damage may contraindicate the use of gastric lavage
- · Most important symptoms and effects, both acute and delayed No further relevant information available.

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· 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

Negligible fire hazard

During heating or in case of fire poisonous gases are produced.

- · Advice for firefighters
- · Protective equipment: Mount respiratory protective device.

### 6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

- Environmental precautions: No special measures required.
- · Methods and material for containment and cleaning up:

Pick up mechanically.

Remainder of material can be washed to drain with plenty of water.

Dispose of the collected material according to regulations.

· 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

- · Handling:
- · Precautions for safe handling Prevent formation of dust.
- · Information about protection against explosions and fires: Keep respiratory protective device available.
- · 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: Do not store together with acids.
- · Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.
- · 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.

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- · 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.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

- · Breathing equipment: Not required.
- · Protection of hands: When following instructions no special clothing / skin protection is needed.
- · Material of gloves -
- · Penetration time of glove material -
- · Eye protection: When using the dispenser no special eye protection is required.

#### 9 Physical and chemical properties

Information on basic physical and chemical properties General Information		
· Appearance:		
Form:	Solid	
Color:	According to product specification	
· Odor:	Characteristic	
· Change in condition Melting point/Melting range: Boiling point/Boiling range:		
· Flash point:	Not applicable.	
· Ignition temperature:	250 °C	
· Auto igniting:	Product is not selfigniting.	
· Danger of explosion:	Product does not present an explosion hazard.	
· Density at 20 °C:	.99 g/cm³	
· Bulk density at 20 °C:	$1000 \text{ kg/m}^3$	

· Solubility in / Miscibility with Water at 25 °C:

250 g/l

· Solvent content:

Organic solvents: 0.0 %

Solids content: 100.0 %

• Other information No further relevant information available.

#### 10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

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- · Possibility of hazardous reactions Contact with acids releases toxic gases.
- · 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:

51580-86-0 sodium dichloroisocyanurate, dihydrate

Oral LD50 1400 mg/kg (rat)

- Primary irritant effect:
- · on the skin: No irritant effect.
- on the eye: Strong irritant with the danger of severe eye injury.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

Irritant

- · 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.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Very toxic for aquatic organisms

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.

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

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· Other adverse effects No further relevant information available.

## 13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. 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.

UN-Number	
DOT	Void
TDG, IMDG, IATA	UN3077
UN proper shipping name	
DOT	Void
TDG	3077 Environmentally hazardous substances, solid, n.o
	(sodium dichloroisocyanurate, dihydrate)
<i>IMDG</i>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLI
	N.O.S. (sodium dichloroisocyanurate, dihydrate), MARII
	POLLUTANT
IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLI
	N.O.S. (sodium dichloroisocyanurate, dihydrate)
Transport hazard class(es)	
DOT	
Class	Void
TDG, IMDG, IATA	
<b>1 1 1 1 1 1 1 1 1 1</b>	
Class	9 Miscellaneous dangerous substances and articles
Label	9
Packing group	
DOT	Void
TDG, IMDG, IATA	III
Environmental hazards:	
Marine pollutant:	Yes
1	Symbol (fish and tree)
	Symbol (fish and tree)
Special marking (TDG):	Symbol (fish and tree)





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Special precautions for user Danger code (Kemler): EMS Number:	Warning: Miscellaneous dangerous substances and articles 90 F-A,S-F
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.
Transport/Additional information:	
· DOT	NOT regulated (if shipped in NON BULK packaging by groun transport)
· TDG	
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
· IMDG	
· Limited quantities (LQ)	5 kg
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
· IATA	
· Remarks:	Packing instructions 911 / Max net weight 400 kg.
· UN "Model Regulation":	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE SOLID, N.O.S. (SODIUM DICHLOROISOCYANURATI DIHYDRATE), 9, III

### 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):

None of the ingredients is 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.

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Trade name: CVBN (USA)

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· 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.

- · National regulations:
- · Other regulations, limitations and prohibitive regulations

Following is the hazard information as required on the pesticide label of Chrysal CVBN (reg.no. 72992-12): DANGER: Corrosive. Causes irreversible eye damage. Harmful if swallowed or absorbed through skin. Strong oxidizing agent. Mix this product only with water.

· 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

- · Date of preparation / last revision 04/06/2016 / 1
- · Abbreviations and acronyms:

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Acute Toxicity (Oral) - Category 4: Acute toxicity, Hazard Category 4

Eye Irritation - Category 2A: Serious eye damage/eye irritation, Hazard Category 2A

Specific Target Organ Toxicity - Single Exposure - Category 3: Specific target organ toxicity - Single exposure, Hazard Category 3

· \* Data compared to the previous version altered.