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Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 03/04/2003

Version: 2

Reviewed on 03/04/2003

1 Identification of substance

- · Product details
- · Trade name: Chrysal OVB
- Article number: T539
- · 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

· Information department:

Department product registration, environment and safety Contact: P. Herman • Emergency information: Tel.: +31-(0)35-6955851

2 Composition/Data on components

- · Chemical characterization
- $\cdot \textit{Description: Mixture of the substances listed below with nonhazardous additions.}$
- · Dangerous components:

68424-85-1	N-Alkyl-N,N-dimethyl-N-benzylammonium chloride	2.5-10%	
85409-23-0	Lauryl-myristyl-dimethyl-ethylbenzyl-ammoniumchloride	2.5-10%	

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

3 Hazards identification

• Hazard description:



· Information pertaining to particular dangers for man 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.

Irritating to eyes and skin.

• Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data. • NFPA ratings (scale 0 - 4)



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· WHMIS-ratings (scale 0 - 4)

HEALTHIFIRE0FIRE0REACTIVITY0Reactivity0

4 First aid measures

· After inhalation: In case of unconsciousness place patient stably in side position for transportation.

· After skin contact: Immediately wash with water and soap and rinse thoroughly.

· After eye contact:

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

• After swallowing: If symptoms persist consult doctor.

5 Fire fighting measures

· Suitable extinguishing agents:

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

6 Accidental release measures

· Person-related safety precautions: Not required.

- Measures for environmental protection:
- Dilute with plenty of water.

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). Dispose contaminated material as waste according to item 13.

7 Handling and storage

- · Handling:
- Information for safe handling: No special precautions are necessary if used correctly.
- · Information about protection against explosions and fires: No special measures required.
- · 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:
- Keep receptacle tightly sealed.
- Keep out of reach of children.
- \cdot Maximum storage temperature: $40^{\circ}C$
- \cdot Minimum storage temperature: $0^{\circ}C$

8 Exposure controls and personal protection

• Additional information about design of technical systems: No further data; see item 7.

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9 Physical and chemical properties

· General Information	
Form:	Fluid
Color:	Colorless
Odor:	Characteristic
· Change in condition	
Melting point/Melting range:	
Boiling point/Boiling range:	Undetermined.
· Flash point:	Not applicable.
· Auto igniting:	Product is not selfigniting.
• Danger of explosion:	Product does not present an explosion hazard.
· Density at $25^{\circ}C$ (77°F):	0.995 g/cm ³
· Solubility in / Miscibility with	
Water:	Fully miscible.
· pH-value at 25°C (77°F):	7.7

10 Stability and reactivity

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

• Materials to be avoided: metals

· Dangerous reactions No dangerous reactions known.

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

11 Toxicological information

- Acute toxicity:
- · Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- · Sensitization: No sensitizing effects known.
- \cdot Additional toxicological information:

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

Irritant

12 Ecological information

· General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

- · Product:
- · Recommendation:

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

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information • DOT regulations: • Hazard class: 8 • Identification number: UN2922 • Packing group: II • Proper shipping name (technical name): Corrosive liquid, toxic, n.o.s., n-Alkyl-N,N-dimethyl-N-benzylammoniumchloride • Maritime transport IMDG: • Marine pollutant: No

15 Regulations

· Sara

· Section 355 (extremely hazardous substances):

None of the ingredient is listed.

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Section 313 (Specific toxic chemical listings):	
None of the ingredients is listed.	
TSCA (Toxic Substances Control Act):	
7732-18-5 water, distilled, conductivity or of similarpurity	
68424-85-1 N-Alkyl-N,N-dimethyl-N-benzylammonium chloride	
Proposition 65	
Chemicals known to cause cancer:	
None of the ingredients is listed.	
Chemicals known to cause reproductive toxicity:	
None of the ingredients is listed.	
Cancerogenity 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.	
OSHA-Ca (Occupational Safety & Health Administration)	
None of the ingredients is listed.	
Product related hazard informations: The product has been classified and marked in accordance with directives on hazardous	s materials.
Hazard symbols: Irritant	
Risk phrases: Irritating to eyes and skin.	

· Safety phrases:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable gloves. This material and its container must be disposed of as hazardous waste.

· National regulations:

• Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

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: Department product registration, environment and safety