800-460-4682 | 214-381-4896

## according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and GHS

Printing date 21.04.2014 Revision: 02.04.2014

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

- · 1.1 Product identifier
- · Trade name: VMC Pro Klenz
- · Article number: mtprok
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- No further relevant information available.
- · Application of the substance / the mixture Alkaline cleaner/ detergent
- · 1.3 Details of the supplier of the Safety Data Sheet
- · Manufacturer:

VMC Industries 14275 Midway Rd. Suite 135 Addison TX, 75001 Phone: (469) 240-1931

· 1.4 Emergency telephone number:

ChemTel Inc.

(800)255-3924, +1 (813)248-0585

#### 2 Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H412.



corrosion TECHNICAL ASSISTANCE CORPORATION

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Aguatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· Classification according to Directive 67/548/EEC or Directive 1999/45/EC

C; Corrosive

R34: Causes burns.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

Information concerning particular hazards for human 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.

· Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

(Contd. on page 2)

## according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and GHS

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· 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H412.

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



· Signal word Danger

· Hazard-determining components of labelling:

disodium metasilicate potassium hydroxide

· Hazard statements

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H412.

H314 Causes severe skin burns and eye damage.

H412 Harmful to aquatic life with long lasting effects.

· Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P264 Wash thoroughly after handling.
P260 Do not breathe mist/vapours/spray.

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

present and easy to do. Continue rinsing.

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

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

regulations.

· Additional information:

Contains (R)-p-mentha-1,8-diene. May produce an allergic reaction.

- · Hazard description:
- · WHMIS-symbols:

D2B - Toxic material causing other toxic effects

E - Corrosive material



· NFPA ratings (scale 0 - 4)



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#### according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and **GHS**

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· HMIS-ratings (scale 0 - 4)



#### · HMIS Long Term Health Hazard Substances

None of the ingredients is listed.

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

#### 3 Composition/information on ingredients

- · 3.2 Mixtures

| Dangerous components:   |   |       |
|---|---|-------|
| CAS: 1300-72-7<br>EINECS: 215-090-9                               | sodium xylenesulphonate  Xi R36/37/38  ♦ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335   | 5-10% |
| CAS: 111-76-2<br>EINECS: 203-905-0<br>Index number: 603-014-00-0  | 2-butoxyethanol  Xn R20/21/22; Xi R36/38  ↑ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319 | 1-5%  |
| CAS: 6834-92-0<br>EINECS: 229-912-9<br>Index number: 014-010-00-8 | disodium metasilicate  C R34; X Xi R37  Skin Corr. 1B, H314  STOT SE 3, H335  | 1-5%  |
| CAS: 1310-58-3<br>EINECS: 215-181-3<br>Index number: 019-002-00-8 | potassium hydroxide C R35; Xn R22 Skin Corr. 1A, H314 Acute Tox. 4, H302  | 1-5%  |
| CAS: 25155-30-0<br>EINECS: 246-680-4                              | sodium dodecylbenzenesulphonate  Xn R22; Xi R36   ↑ Acute Tox. 4, H302; Eye Irrit. 2, H319  | 1-5%  |
| CAS: 68439-46-3<br>NLP: 500-446-0                                 | alcohols, C9-11, ethoxylated  Xi R38-41  Eye Dam. 1, H318  Skin Irrit. 2, H315  | 1-5%  |

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|   | (Contd.  | of page 3) |
|---|--|------------|
| CAS: 5989-27-5  | (R)-p-mentha-1,8-diene                         | < 1,0%     |
| EINECS: 227-813-5   | Xi R38; Xi R43; N R50/53                       |            |
| Index number: 601-029-00-7  |  |            |
|   | ♦ Flam. Liq. 3, H226                           |            |
|   | Aquatic Acute 1, H400; Aquatic Chronic 1, H410 |            |
|   | Skin Irrit. 2, H315; Skin Sens. 1, H317        |            |
| Additional information. For the conding of the listed view physics and a continu 40 |  |            |

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

#### 4 First aid measures

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

Immediately remove any clothing soiled by the product.

Take affected persons out into the fresh air.

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:

Immediately rinse with water.

If skin irritation continues, consult a doctor.

Seek immediate medical help for blistering or open wounds.

· After eye contact:

Remove contact lenses if worn, if possible.

Rinse opened eye for several minutes under running water. Then consult a doctor.

· After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed RATION

Strong caustic effect on skin and mucous membranes.

Cramp

Nausea

Coughing

Allergic reactions

Gastric or intestinal disorders.

· Hazards

Danger of gastric perforation.

Danger of severe eye injury.

4.3 Indication of any immediate medical attention and special treatment needed

Contains (R)-p-mentha-1,8-diene. May produce an allergic reaction.

If necessary oxygen respiration treatment.

Medical supervision for at least 48 hours.

#### 5 Firefighting measures

- 5.1 Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- · For safety reasons unsuitable extinguishing agents: None.

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Trade name: VMC Pro Klenz

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· 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

- · 5.3 Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

· Additional information No further relevant information available.

#### 6 Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Use respiratory protective device against the effects of fumes/dust/aerosol.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Particular danger of slipping on leaked/spilled product.

- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- · 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Pick up mechanically.

Send for recovery or disposal in suitable receptacles.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Clean the affected area carefully; suitable cleaners are:

Warm water

· 6.4 Reference to other sections

See Section 7 for information on/safe handling TANCE CORPORATION

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

#### 7 Handling and storage

#### · 7.1 Precautions for safe handling

Prevent formation of aerosols.

Avoid splashes or spray in enclosed areas.

Use only in well ventilated areas.

- · Information about fire and explosion protection: The product is not flammable.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles:

Avoid storage near extreme heat, ignition sources or open flame.

Unsuitable material for receptacle: aluminium.

Unsuitable material for receptacle: glass or ceramic.

Unsuitable material for receptacle: steel.

Information about storage in one common storage facility:

Store away from foodstuffs.

Do not store together with oxidizing and acidic materials.

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- Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.
- · 7.3 Specific end use(s) No further relevant information available.

#### 8 Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- · 8.1 Control parameters

| The second of th |   |  |  |  |  |
|--|---|--|--|--|--|
| Ingredients with limit values that require monitoring at the workplace:  |   |  |  |  |  |
| 111-76-2 2-butoxyethanol   |   |  |  |  |  |
| IOELV (EU)   | Short-term value: 246 mg/m³, 50 ppm<br>Long-term value: 98 mg/m³, 20 ppm<br>Skin                              |  |  |  |  |
| PEL (USA)  | Long-term value: 240 mg/m³, 50 ppm<br>Skin  |  |  |  |  |
| REL (USA)  | Long-term value: 24 mg/m³, 5 ppm<br>Skin  |  |  |  |  |
| TLV (USA)  | Long-term value: 97 mg/m³, 20 ppm<br>BEI  |  |  |  |  |
| EL (Canada)  | Long-term value: 20 ppm   |  |  |  |  |
| EV (Canada)  | Long-term value: 20 ppm<br>Skin   |  |  |  |  |
| 1310-58-3 potassium hydroxide  |   |  |  |  |  |
| REL (USA)  | Ceiling Timit 2 mg/m2 ASSISTANCE CORPORATION  |  |  |  |  |
| TLV (USA)  | Ceiling limit: 2 mg/m³  |  |  |  |  |
|  | 111-76-2 2-bit IOELV (EU)  PEL (USA)  REL (USA)  TLV (USA)  EL (Canada)  EV (Canada)  1310-58-3 por REL (USA) |  |  |  |  |

FL (O-y-d-) Object to make a Court

- EL (Canada) Short-term value: C 2 mg/m³

   DNELs No further relevant information available.
- · PNECs No further relevant information available.
- · Ingredients with biological limit values:

#### 111-76-2 2-butoxyethanol

BEI (USA) 200 mg/g creatinine

Medium: urine Time: end of shift

Parameter: Butoxyacetic acid with hydrolysis

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

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Avoid contact with the eyes and skin.

Respiratory protection:

Not required under normal conditions of use.

Use suitable respiratory protective device in case of insufficient ventilation.

Use suitable respiratory protective device when aerosol or mist is formed.

For spills, respiratory protection may be advisable.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eve protection:

Contact lenses should not be worn.



Safety glasses

### <u>HNICAL ASSISTANCE CORPORATION</u>

- · Body protection: Alkaline resistant protective clothing
- · Limitation and supervision of exposure into the environment

No further relevant information available.

· Risk management measures

See Section 7 for additional information.

No further relevant information available.

#### 9 Physical and chemical properties

- · 9.1 Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Liquid

Colour: Amber coloured

· **Odour:** Citrus.

· Odour threshold: Not determined.

· pH-value at 20 °C:

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· Change in condition

Melting point/Melting range:
Boiling point/Boiling range:
Undetermined.

Flash point:
Flammability (solid, gaseous):
Auto/Self-ignition temperature:
Not applicable.
Not determined.

Not determined.

Self-igniting: Product is not self-igniting.

• **Danger of explosion:** Product does not present an explosion hazard.

· Explosion limits:

Lower: Not determined. Upper: Not determined.

· Vapour pressure: Not determined.

· Density at 20 °C: 1,1 g/cm³

Relative density

Vapour density

Vapour density

Evaporation rate

Not determined.

Not determined.

· Solubility in / Miscibility with

water: Soluble.

Partition coefficient (n-octanol/water): Not determined CORPORATION

· Viscosity:

**Dynamic:** Not determined. **Kinematic:** Not determined.

• 9.2 Other information No further relevant information available.

#### 10 Stability and reactivity

- · 10.1 Reactivity
- · 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

· 10.3 Possibility of hazardous reactions

Reacts with strong oxidizing agents.

Corrosive action on metals.

Attacks materials containing glass and silicate.

Strong exothermic reaction with acids.

- · 10.4 Conditions to avoid Store away from oxidizing agents.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products:

Carbon monoxide and carbon dioxide

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Sulphur oxides (SOx)

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#### 11 Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity:
- · LD/LC50 values relevant for classification:

1310-58-3 potassium hydroxide

Oral LD50 273 mg/kg (rat)

5989-27-5 (R)-p-mentha-1,8-diene

Oral LD50 4400 mg/kg (rat)

- · Primary irritant effect:
- · on the skin: Caustic effect on skin and mucous membranes.
- · on the eye: Strong caustic effect.
- · Sensitization: No sensitizing effects known.
- Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Corrosive

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

#### 12 Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential Does not accumulate in organisms.
- · 12.4 Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark:

After neutralization a reduction of the harming action may be recognized

Harmful to fish

- Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (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.

Must not reach sewage water or drainage ditch undiluted or unneutralized.

Harmful to aquatic organisms

Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.

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

#### 13 Disposal considerations

- · 13.1 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.

Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

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

#### 14 Transport information

- · 14.1 UN-Number
- · DOT, ADR, IMDG, IATA

UN1814

- · 14.2 UN proper shipping name
- · DOT

Potassium hydroxide, solution, mixture

- · ADR TECHNICA
- 1814 POTASSIUM HYDROXIDE SOLUTION, mixture POTASSIUM HYDROXIDE SOLUTION, mixture

- · IMDG, IATA
- · 14.3 Transport hazard class(es)
- · DOT



· Class

8 Corrosive substances.

· Label

8

· ADR



· Class · Label 8 (C5) Corrosive substances.

8

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· IMDG, IATA



· Class 8 Corrosive substances.

· Label

· 14.4 Packing group

· DOT, ADR, IMDG, IATA

· 14.5 Environmental hazards:

· Marine pollutant: No

• 14.6 Special precautions for user Warning: Corrosive substances.

Danger code (Kemler):EMS Number:Segregation groups80F-A,S-BAlkalis

· 14.7 Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

Transport/Additional information:

· ADR

Limited quantities (LQ)
 Transport category
 Tunnel restriction code

· UN "Model Regulation": UN1814, POTASSIUM HYDROXIDE SOLUTION,

mixture, 8, II

### 15 Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · United States (USA)
- ·SARA
- Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

7758-29-4 pentasodium triphosphate

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

- Proposition 65 (California):
- · 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.

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|---|----------|
| · 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.  |          |
| · Carcinogenic Categories   |          |
| · EPA (Environmental Protection Agency)   |          |
| 111-76-2 2-butoxyethanol  | NL       |
| · IARC (International Agency for Research on Cancer)                                      |          |
| 111-76-2 2-butoxyethanol  | 3        |
| 5989-27-5 (R)-p-mentha-1,8-diene  | 3        |
| TLV (Threshold Limit Value established by ACGIH)  |          |
| 111-76-2 2-butoxyethanol  | A3       |
| NIOSH-Ca (National Institute for Occupational Safety and Health)                          |          |
| None of the ingredients is listed.  |          |
| · Canada  |          |
| · Canadian Domestic Substances List (DSL)   |          |
| All ingredients are listed.   |          |
| · Canadian Ingredient Disclosure list (limit 0.1%)  |          |
| None of the ingredients is listed.  |          |
| Canadian Ingredient Disclosure list (limit 1%) ANCE CORPORATION                           |          |
| 111-76-2 2-butoxyethanol  |          |
| 6834-92-0 disodium metasilicate   |          |
| 1310-58-3 potassium hydroxide   |          |
| 25155-30-0 sodium dodecylbenzenesulphonate  |          |
| · Other regulations, limitations and prohibitive regulations                              |          |
| Substances of very high concern (SVHC) according to REACH, Article 57                     |          |
| None of the ingredients is listed.  |          |
| · 15.2 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.

#### · Relevant phrases

| H226 Flammable liq | uid and | l vapour. |
|--------------------|---------|-----------|
|--------------------|---------|-----------|

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

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| H318<br>H319<br>H332<br>H335<br>H400<br>H410 | Causes serious eye damage. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.   | (Contd. of page 12) |
|--|---|---------------------|
| R22<br>R34<br>R35<br>R36                     | Flammable. Harmful by inhalation, in contact with skin and if swallowed. Harmful if swallowed. Causes burns. Causes severe burns. Irritating to eyes. Irritating to eyes, respiratory system and skin. Irritating to eyes and skin. Irritating to respiratory system. Irritating to skin. |                     |
| R41<br>R43<br>R50/53                         | Risk of serious damage to eyes.  May cause sensitisation by skin contact.  Very toxic to aquatic organisms, may cause long-term adverse effects environment.  | in the aquatic      |
| . Abbroviot                                  | ione and carenymas  |                     |

#### · 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

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

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)

WHMIS: Workplace Hazardous Materials Information System (Canada)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Flam. Liq. 3: Flammable liquids, Hazard Category 3

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A

Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

· Sources

SDS Prepared by:

ChemTel Inc.

1305 North Florida Avenue

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Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573

Website: www.chemtelinc.com

