



# Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date 02/02/2015

Reviewed on 02/02/2015

## 1 Identification

- **Product identifier**
- **Trade name: All Purpose**
- **Article number:** DAC 104
- **Application of the substance / the mixture** All-purpose cleaner
- **Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**  
DAC Industries, Inc.  
1636 Gervais Avenue Suite 9  
Maplewood, MN 55109  
Phone: (651) 748-1750
- **Information department:** Product Safety Department
- **Emergency telephone number:**  
ChemTel Inc.  
(800)255-3924, +1 (813)248-0585

## 2 Hazard(s) identification

- **Classification of the substance or mixture**



Flam. Aerosol 1 H222 Extremely flammable aerosol.



Press. Gas H280 Contains gas under pressure; may explode if heated.



Carc. 2 H351 Suspected of causing cancer.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

- **Label elements**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

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## · Hazard pictograms



GHS02 GHS04 GHS07 GHS08

## · Signal word Danger

## · Hazard-determining components of labeling:

tetrasodium ethylenediaminetetraacetate  
(R)-p-mentha-1,8-diene  
2,2'-iminodiethanol

## · Hazard statements

H222 Extremely flammable aerosol.  
H280 Contains gas under pressure; may explode if heated.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H351 Suspected of causing cancer.  
H373 May cause damage to organs through prolonged or repeated exposure.

## · Precautionary statements

P210 Keep away from heat, sparks, open flames, and hot surfaces. - No smoking.  
P251 Pressurized container: Do not pierce or burn, even after use.  
P211 Do not spray on an open flame or other ignition source.  
P280 Wear protective gloves and eye protection.  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 122 °F (50 °C).  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

## · Hazard description:

## · WHMIS-symbols:

A - Compressed gas  
B5 - Flammable aerosol  
D2B - Toxic material causing other toxic effects



## · Classification system:

## · NFPA ratings (scale 0 - 4)



Health = 1  
Fire = 4  
Reactivity = 3

## · HMIS-ratings (scale 0 - 4)



Health = \*1  
Fire = 4  
Reactivity = 3

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\* - Indicates a long term health hazard from repeated or prolonged exposures.

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

### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

111-76-2	2-butoxyethanol  Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319 Flam. Liq. 4, H227	2.5-10%
68476-86-8	Petroleum gases, liquefied, (Nota K, -R45, R46, <0.1% 1,3-butadiene buta-1,3-diene)  Flam. Gas 1, H220  Press. Gas, H280	2.5-10%
5989-27-5	(R)-p-mentha-1,8-diene  Flam. Liq. 3, H226  Skin Irrit. 2, H315; Skin Sens. 1, H317	2.5-10%
112-80-1	oleic acid, pure  Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	2.5-10%
64-02-8	tetrasodium ethylenediaminetetraacetate  Eye Dam. 1, H318  Acute Tox. 4, H302	2.5-10%
68603-42-9	Coconut diethanolamide  Skin Irrit. 2, H315; Eye Irrit. 2A, H319	2.5-10%
111-42-2	2,2'-iminodiethanol  Carc. 2, H351; STOT RE 2, H373  Eye Dam. 1, H318  Acute Tox. 4, H302; Skin Irrit. 2, H315	≤ 2.5%

- **Additional information:**

For the listed ingredients, the identity and exact percentages are being withheld as a trade secret.

### 4 First-aid measures

- **Description of first aid measures**

- **General information:**

Take affected persons out into the fresh air.

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

Immediately remove any clothing soiled by the product.

- **After inhalation:**

Supply fresh air; consult doctor in case of complaints.

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Provide oxygen treatment if affected person has difficulty breathing.  
In case of unconsciousness place patient stably in side position for transportation.

- **After skin contact:**

Immediately remove any clothing soiled by the product.  
Immediately wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.

- **After eye contact:**

Protect unharmed eye.  
Remove contact lenses if worn, if possible.  
Rinse opened eye for several minutes under running water. Then consult a doctor.

- **After swallowing:**

Unlikely route of exposure.  
Rinse out mouth and then drink plenty of water.  
Do not induce vomiting; immediately call for medical help.

- **Information for doctor:**

- **Most important symptoms and effects, both acute and delayed**

Coughing  
Dizziness  
Allergic reactions  
Irritant to skin and mucous membranes.  
Irritant to eyes.  
Disorientation

- **Danger**

Danger of disturbed cardiac rhythm.  
Danger of impaired breathing.  
Danger of pulmonary edema.  
Danger of convulsion.  
Condition may deteriorate with alcohol consumption.

- **Indication of any immediate medical attention and special treatment needed**

If necessary oxygen respiration treatment.  
Medical supervision for at least 48 hours.  
Later observation for pneumonia and pulmonary edema.  
Treat skin and mucous membrane with antihistamine and corticoid preparations.

### 5 Fire-fighting measures

- **Extinguishing media**

- **Suitable extinguishing agents:**

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fire with alcohol resistant foam.

- **For safety reasons unsuitable extinguishing agents:** None.

- **Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.  
Danger of receptacles bursting because of high vapor pressure if heated.

- **Advice for firefighters**

- **Protective equipment:**

Wear self-contained respiratory protective device.  
Wear fully protective suit.

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- **Additional information** Cool endangered receptacles with water spray.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
  - Ensure adequate ventilation.
  - Wear protective equipment. Keep unprotected persons away.
  - Keep away from ignition sources.
  - Protect from heat.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
  - Allow to evaporate.
  - Absorb liquid components with liquid-binding material.
  - Send for recovery or disposal in suitable receptacles.
- **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**
  - Keep away from heat and direct sunlight.
  - Ensure good ventilation/exhaustion at the workplace.
  - Avoid splashes or spray in enclosed areas.
- **Information about protection against explosions and fires:**
  - Do not spray on a naked flame or any incandescent material.
  - Keep ignition sources away - Do not smoke.
  - Protect against electrostatic charges.
  - Pressurized container: protect from sunlight and do not expose to temperatures exceeding 120 °F / 49 °C, i.e. electric lights. Do not pierce or burn, even after use.
  - Emergency cooling must be available in case of nearby fire.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
  - Store in a cool location.
  - Observe official regulations on storing packagings with pressurized containers.
  - Avoid storage near extreme heat, ignition sources or open flame.
- **Information about storage in one common storage facility:**
  - Store away from foodstuffs.
  - Store away from oxidizing agents.
- **Further information about storage conditions:**
  - Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.
  - Keep receptacle tightly sealed.
  - Protect from heat and direct sunlight.
  - Storage Temperatures : <122 ° F / <50 °C.

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· **Specific end use(s)** No further relevant information available.

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### 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:**

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

PEL (USA)	Long-term value: 240 mg/m <sup>3</sup> , 50 ppm Skin
REL (USA)	Long-term value: 24 mg/m <sup>3</sup> , 5 ppm Skin
TLV (USA)	Long-term value: 97 mg/m <sup>3</sup> , 20 ppm BEI
EL (Canada)	Long-term value: 20 ppm
EV (Canada)	Long-term value: 20 ppm Skin
LMPE (Mexico)	Long-term value: 20 ppm A3, IBE

#### 102-71-6 2,2',2''-nitrioltriethanol

TLV (USA)	Long-term value: 5 mg/m <sup>3</sup>
EL (Canada)	Long-term value: 5 mg/m <sup>3</sup>
EV (Canada)	Long-term value: 3.1 mg/m <sup>3</sup> , 0.5 ppm
LMPE (Mexico)	Long-term value: 5 mg/m <sup>3</sup>

#### 111-42-2 2,2'-iminodiethanol

REL (USA)	Long-term value: 15 mg/m <sup>3</sup> , 3 ppm
TLV (USA)	Long-term value: 1* mg/m <sup>3</sup> , 0.2* ppm Skin; *inhalable fraction and vapor
EL (Canada)	Long-term value: 2 mg/m <sup>3</sup> Skin, IARC 2B
EV (Canada)	Long-term value: 2 mg/m <sup>3</sup>
LMPE (Mexico)	Long-term value: 2 mg/m <sup>3</sup> A3, PIEL

· **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
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· **Additional information:** The lists that were valid during the creation were used as basis.

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- **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.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Do not inhale gases / fumes / aerosols.  
Avoid contact with the eyes and skin.
- **Engineering controls:** No further relevant information available.
- **Breathing equipment:**  
Wear appropriate NIOSH respirator when ventilation is inadequate and occupational exposure limits are exceeded.
- **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**  
Neoprene gloves  
Nitrile rubber, NBR  
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.
- **Not suitable are gloves made of the following materials:** Leather gloves
- **Eye protection:**  
Contact lenses should not be worn.



Safety glasses

- **Body protection:** Protective work clothing
- **Limitation and supervision of exposure into the environment**  
No further relevant information available.

### 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**  
**Form:** Aerosol

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<b>Color:</b>	Brown
· <b>Odor:</b>	Mild
· <b>Odor threshold:</b>	Not determined.
· <b>pH-value:</b>	Not determined.
· <b>Change in condition</b>	
<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	Not applicable, as aerosol.
· <b>Flash point:</b>	<-104 °C (<-155 °F) (PMCC)
· <b>Flammability (solid, gaseous):</b>	Not applicable.
· <b>Auto-ignition temperature:</b>	Not determined.
· <b>Decomposition temperature:</b>	Not determined.
· <b>Auto igniting:</b>	Product is not self-igniting.
· <b>Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· <b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
· <b>Vapor pressure:</b>	> 14.7 PSIA
· <b>Density at 20 °C (68 °F):</b>	<1.0 g/cm <sup>3</sup> (<8.345 lbs/gal)
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not applicable.
· <b>Solubility in / Miscibility with</b>	
<b>Water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
· <b>Other information</b>	No further relevant information available.

## 10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
Keep away from heat, sparks, open flames, and hot surfaces. - No smoking.
- **Possibility of hazardous reactions**  
Flammable aerosol.  
Can react violently with oxygen rich (oxidizing) material. Danger of Explosion.  
Develops readily flammable gases / fumes.  
Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomized.

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Reacts with strong acids and alkali.  
Danger of receptacles bursting because of high vapor pressure if heated.

- **Conditions to avoid**  
Keep ignition sources away - Do not smoke.  
Store away from oxidizing agents.
- **Incompatible materials:** Oxidizers, strong bases, strong acids
- **Hazardous decomposition products:**  
Carbon monoxide and carbon dioxide  
Nitrogen oxides  
Hydrocarbons

**11 Toxicological information**

- **Information on toxicological effects**
- **Acute toxicity:**

· <b>LD/LC50 values that are relevant for classification:</b>		
<b>5989-27-5 (R)-p-mentha-1,8-diene</b>		
Oral	LD50	4400 mg/kg (rat)
<b>111-76-2 2-butoxyethanol</b>		
Oral	LD50	1480 mg/kg (rat)
Dermal	LD50	400 mg/kg (rab)

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**  
Irritant  
At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.  
Inhalation of concentrated vapors as well as oral intake will lead to anaesthesia-like conditions and headache, dizziness, etc.  
Toxic and/or corrosive effects may be delayed up to 48 hours.

· **Carcinogenic categories**

· <b>NTP (National Toxicology Program)</b>
None of the ingredients is listed.

· <b>OSHA-Ca (Occupational Safety &amp; Health Administration)</b>
None of the ingredients is listed.

- **Probable Routes of Exposure**  
Inhalation.  
Skin contact.  
Eye contact.
- **Acute effects (acute toxicity, irritation and corrosivity):**  
Danger through skin absorption.  
Vapors have narcotic effect.

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- **Repeated Dose Toxicity:** Repeated exposures may result in skin and/or respiratory sensitivity.

### 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** The material is harmful to the environment.
- **Persistence and degradability** The product is partially biodegradable. Significant residuals remain.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:**  
Toxic for fish  
The product is oxygen-consuming. The declared action may be partly caused by lack of oxygen.
- **Additional ecological information:**
- **General notes:**  
At present there are no ecotoxicological assessments.  
This statement was deduced from the properties of the single components.  
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.  
Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.
- **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:**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.  
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.  
The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Solvent naphtha

### 14 Transport information

- **UN-Number**
- **DOT, ADR, IMDG, IATA** UN1950

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· **UN proper shipping name**  
 · **DOT**  
 · **ADR**  
 · **IMDG**  
 · **IATA**  
 · **Transport hazard class(es)**

Aerosols, flammable  
 1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS  
 AEROSOLS (DIPENTENE), MARINE POLLUTANT  
 AEROSOLS, flammable

· **DOT**

· **Class** 2.1  
 · **Label** 2.1

· **ADR**

· **Class** 2 5F Gases  
 · **Label** 2.1

· **IMDG**

· **Class** 2.1  
 · **Label** 2.1

· **IATA**

· **Class** 2.1  
 · **Label** 2.1

· **Packing group**· **DOT, ADR, IMDG, IATA**

Not Regulated

· **Environmental hazards:**Product contains environmentally hazardous substances:  
(R)-p-mentha-1,8-diene· **Marine pollutant:**

Yes

· **Special marking (ADR):**

Symbol (fish and tree)

· **Special precautions for user**

Symbol (fish and tree)

· **Danger code (Kemler):**

Warning: Gases

· **EMS Number:**

-

· **Transport in bulk according to Annex II of  
MARPOL73/78 and the IBC Code**

F-D,S-U

Not applicable.

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· UN "Model Regulation":

UN1950, Aerosols, ENVIRONMENTALLY HAZARDOUS,  
2.1

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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 ingredients is listed.

- Section 313 (Specific toxic chemical listings):

111-42-2 | 2,2'-iminodiethanol

- TSCA (Toxic Substances Control Act):

All ingredients are listed.

- Proposition 65 (California)

- Chemicals known to cause cancer:

68603-42-9 | Coconut diethanolamide

111-42-2 | 2,2'-iminodiethanol

- Chemicals known to cause reproductive toxicity for females:

None of the ingredients are 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.

- Carcinogenic categories

- EPA (Environmental Protection Agency)

111-76-2 | 2-butoxyethanol

CBD

- IARC (International Agency for Research on Cancer)

111-76-2 | 2-butoxyethanol

3

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

3

111-42-2 | 2,2'-iminodiethanol

3

- TLV (Threshold Limit Value established by ACGIH)

111-76-2 | 2-butoxyethanol

A3

111-42-2 | 2,2'-iminodiethanol

A3

- NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

- State Right to Know Listings

None of the ingredients is listed.

- Canadian substance listings:

- Canadian Domestic Substances List (DSL)

All ingredients are listed.

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· **Canadian Ingredient Disclosure list (limit 0.1%)**

None of the ingredients is listed.

· **Canadian Ingredient Disclosure list (limit 1%)**

111-76-2 2-butoxyethanol

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

112-80-1 oleic acid, pure

102-71-6 2,2',2"-nitrilotriethanol

111-42-2 2,2'-iminodiethanol

· **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.

· **Date of preparation / last revision** 02/02/2015 / -

· **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)

HMS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Flam. Gas 1: Flammable gases, Hazard Category 1

Flam. Aerosol 1: Flammable aerosols, Hazard Category 1

Press. Gas: Gases under pressure: Compressed gas

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

Flam. Liq. 4: Flammable liquids, Hazard Category 4

Acute Tox. 4: Acute toxicity, Hazard Category 4

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

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

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

Carc. 2: Carcinogenicity, Hazard Category 2

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

STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

· **Sources**

SDS Prepared by:

ChemTel Inc.

1305 North Florida Avenue

Tampa, Florida USA 33602-2902

Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573

Website: [www.chemtelinc.com](http://www.chemtelinc.com)