Printing date: November 20, 2018

Revision: November 12, 2018

1 Identification		
· Product identifier		
• Trade name: Phenolph • Product code: MTK-61		
• Recommended use and • Recommended use: La	d restriction on use	
 Details of the supplier Manufacturer/Supplier AquaPhoenix Scientific, 860 Gitts Run Road Hanover, PA 17331 Phone: (717)632-1291 Toll-Free: (866)632-1291 info@aquaphoenixsci.co Distributor: Dubois Chemicals Inc. 3630 East Kemper Rd Cincinnati, OH 45241 (800) 438-2647 	Inc. 1	
 Emergency telephone in ChemTel Inc. (800)255-3924 (North Art +1 (813)248-0585 (Intern 	merica)	
+1 (013)240-0303 (inten		
2 Hazard(s) identifica	·	
2 Hazard(s) identifica	·	
2 Hazard(s) identifica Classification of the	ation	
2 Hazard(s) identifica Classification of the	ation substance or mixture hly flammable liquid and vapor.	
2 Hazard(s) identifica Classification of the Flam. Liq. 2 H225 High Acute Tox. 4 H302 Har	ation substance or mixture hly flammable liquid and vapor.	
2 Hazard(s) identifica Classification of the Flam. Liq. 2 H225 High Acute Tox. 4 H302 Har	ation substance or mixture hly flammable liquid and vapor. mful if swallowed. mful in contact with skin.	
2 Hazard(s) identifica Classification of the Flam. Liq. 2 H225 High Acute Tox. 4 H302 Har Acute Tox. 4 H312 Har Acute Tox. 4 H332 Har	ation substance or mixture hly flammable liquid and vapor. mful if swallowed. mful in contact with skin.	
2 Hazard(s) identifica Classification of the Flam. Liq. 2 H225 High Acute Tox. 4 H302 Har Acute Tox. 4 H312 Har Acute Tox. 4 H332 Har Eye Irrit. 2A H319 Cau	ation substance or mixture hly flammable liquid and vapor. mful if swallowed. mful in contact with skin. mful if inhaled. uses serious eye irritation.	
2 Hazard(s) identifica Classification of the Flam. Liq. 2 H225 Higl Acute Tox. 4 H302 Har Acute Tox. 4 H312 Har Acute Tox. 4 H332 Har Eye Irrit. 2A H319 Cau Carc. 2 H351 Sus	ation substance or mixture hly flammable liquid and vapor. mful if swallowed. mful in contact with skin. mful if inhaled.	
2 Hazard(s) identifica Classification of the Flam. Liq. 2 H225 Higl Acute Tox. 4 H302 Har Acute Tox. 4 H312 Har Acute Tox. 4 H332 Har Eye Irrit. 2A H319 Cau Carc. 2 H351 Sus Repr. 2 H361 Sus	ation substance or mixture hly flammable liquid and vapor. mful if swallowed. mful in contact with skin. mful if inhaled. uses serious eye irritation. spected of causing cancer.	
2 Hazard(s) identifica Classification of the Flam. Liq. 2 H225 High Acute Tox. 4 H302 Har Acute Tox. 4 H312 Har Acute Tox. 4 H332 Har Eye Irrit. 2A H319 Cau Carc. 2 H351 Sus Repr. 2 H361 Sus STOT SE 2 H371 May	ation substance or mixture hly flammable liquid and vapor. mful if swallowed. mful in contact with skin. mful if inhaled. uses serious eye irritation. spected of causing cancer. spected of damaging fertility or the unborn child.	
2 Hazard(s) identifica Classification of the Flam. Liq. 2 H225 High Acute Tox. 4 H302 Har Acute Tox. 4 H312 Har Acute Tox. 4 H332 Har Acute Tox. 4 H332 Har Eye Irrit. 2A H319 Cau Carc. 2 H351 Sus Repr. 2 H361 Sus STOT SE 2 H371 May STOT SE 3 H336 May · Label elements · GHS label elements	ation substance or mixture hly flammable liquid and vapor. mful if swallowed. mful in contact with skin. mful if inhaled. uses serious eye irritation. spected of causing cancer. spected of damaging fertility or the unborn child. y cause damage to the central nervous system and optic nerve.	
2 Hazard(s) identifica Classification of the Flam. Liq. 2 H225 Higl Acute Tox. 4 H302 Har Acute Tox. 4 H312 Har Acute Tox. 4 H312 Har Acute Tox. 4 H332 Har Eye Irrit. 2A H319 Cau Carc. 2 H351 Sus Repr. 2 H361 Sus STOT SE 2 H371 May STOT SE 3 H336 May • Label elements The product is classified	ation substance or mixture hly flammable liquid and vapor. mful if swallowed. mful in contact with skin. mful if inhaled. uses serious eye irritation. spected of causing cancer. spected of damaging fertility or the unborn child. y cause damage to the central nervous system and optic nerve. y cause drowsiness or dizziness.	
2 Hazard(s) identifica Classification of the Flam. Liq. 2 H225 Higl Acute Tox. 4 H302 Har Acute Tox. 4 H312 Har Acute Tox. 4 H312 Har Acute Tox. 4 H332 Har Eye Irrit. 2A H319 Cau Carc. 2 H351 Sus Repr. 2 H361 Sus STOT SE 2 H371 May STOT SE 3 H336 May • Label elements The product is classified	ation substance or mixture hly flammable liquid and vapor. mful if swallowed. mful in contact with skin. mful if inhaled. uses serious eye irritation. spected of causing cancer. spected of damaging fertility or the unborn child. y cause damage to the central nervous system and optic nerve. y cause drowsiness or dizziness.	
2 Hazard(s) identifica Classification of the Flam. Liq. 2 H225 High Acute Tox. 4 H302 Har Acute Tox. 4 H302 Har Acute Tox. 4 H312 Har Acute Tox. 4 H332 Har Eye Irrit. 2A H319 Cau Carc. 2 H351 Sus Repr. 2 H361 Sus STOT SE 2 H371 May STOT SE 3 H336 May Cabel elements The product is classified Hazard pictograms:	ation substance or mixture hly flammable liquid and vapor. mful if swallowed. mful in contact with skin. mful if inhaled. uses serious eye irritation. spected of causing cancer. spected of damaging fertility or the unborn child. y cause damage to the central nervous system and optic nerve. y cause drowsiness or dizziness.	(Cont'd. on page 2)

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 Hazard statemen 		
H225	Highly flammable liquid and vapor.	
H302+H312+H332	2 Harmful if swallowed, in contact with skin or if inhaled.	
H319	Causes serious eye irritation.	
H351	Suspected of causing cancer.	
H361	Suspected of damaging fertility or the unborn child.	
H371	May cause damage to the central nervous system and optic nerve.	
H336	May cause drowsiness or dizziness.	
 Precautionary state 		
P201	Obtain special instructions before use.	
P202	Do not handle until all safety precautions have been read and understood.	
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.	
P233	Keep container tightly closed.	I
P240	Ground/bond container and receiving equipment.	l
P241	Use explosion-proof electrical/ventilating/lighting/equipment.	
P242	Use only non-sparking tools.	
P243	Take precautionary measures against static discharge.	
P260	Do not breathe mist/vapors/spray.	
P264	Wash thoroughly after handling.	
P270	Do not eat, drink or smoke when using this product.	
P271	Use only outdoors or in a well-ventilated area.	
P280	Wear protective gloves/protective clothing/eye protection.	
P303+P361+P353	3 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.	1
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
P305+P351+P338	3 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, it present and easy to do. Continue rinsing.	f
P308+P311	IF exposed or concerned: Call a poison center/doctor.	
P330	Rinse mouth.	
P337+P313	If eye irritation persists: Get medical advice/attention.	
P362+P364	Take off contaminated clothing and wash it before reuse.	
P370+P378	In case of fire: Use for extinction: Alcohol resistant foam or water spray.	
P403+P235	Store in a well-ventilated place. Keep cool.	
P405	Store locked up.	
P501	Dispose of contents/container in accordance with local/regional/national/internationa regulations.	I
· Other hazards	There are no other hazards not otherwise classified that have been identified.	-

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Compone	nts:	
67-63-0	Propan-2-ol	25%
	 Flam. Liq. 2, H225 Eye Irrit. 2A, H319; STOT SE 3, H336 	
64-17-5		15.5%
	 Flam. Liq. 2, H225 Eye Irrit. 2A, H319 	
	(Cont'd	on page 3)

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		(Cont'd. of page 2
67-56-1	Methanol	9.5%
	 Flam. Liq. 2, H225 Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331 STOT SE 1, H370 Eye Irrit. 2B, H320 	
77-09-8	phenolphthalein	0.42%
	Muta. 2, H341; Carc. 1B, H350; Repr. 2, H361	
7732-18-5		49.58%
For the list	Il information: ted ingredient(s), the identity and/or exact percentage(s) are being withheld a ording of the listed Hazard Statements, refer to section 16.	as a trade secret.
4 First-aid	I measures	
 General ir After inha After skin If on skin (If skin irrita After eye Remove c Rinse ope After swa Rinse out Do not ind 	(or hair): Take off immediately all contaminated clothing. Rinse skin with wat ation continues, consult a doctor. contact: rontact lenses if worn. ned eye for several minutes under running water. Then consult a doctor.	ter/shower.
	case of ingestion.	
Breathing Coughing	difficulty	
	/e irritation. intestinal disorders when ingested. tion	
Vapors ma	armful if swallowed, in contact with skin or if inhaled. ay cause drowsiness and dizziness.	
Danger of	e neurotoxic effects. impaired breathing.	
Suspected	e damage to the central nervous system and optic nerve. d of damaging fertility or the unborn child. n of any immediate medical attention and special treatment needed:	
manualion	upervision for at least 48 hours.	

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5 Fire-fighting measures

- Extinguishing media
- · Suitable extinguishing agents: Alcohol resistant foam Water fog / haze Carbon dioxide Gaseous extinguishing agents Water spray Fire-extinguishing powder • For safety reasons unsuitable extinguishing agents: Water stream. · Special hazards arising from the substance or mixture Highly flammable liquid and vapor. Formation of toxic gases is possible during heating or in case of fire. Advice for firefighters · Protective equipment: Wear self-contained respiratory protective device. Wear fully protective suit. · Additional information:

Use large quantities of foam as it is partially destroyed by the product. Cool endangered product with water spray.

6 Accidental release measures

[•] Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

Keep away from ignition sources.

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

Isolate area and prevent access.

• Environmental precautions

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Methods and material for containment and cleaning up

Absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders). 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:

Use only in well ventilated areas.

Avoid splashes or spray in enclosed areas.

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Prevent formation of aerosols. • Information about protection against explosions and fires: Keep respiratory protective device available.

[•] Conditions for safe storage, including any incompatibilities

 Requirements to be met by storerooms and receptacles: Store in a well-ventilated place. Keep cool.
 Avoid storage near extreme heat, ignition sources or open flame.
 Information about storage in one common storage facility:

- Store away from oxidizing agents.
- Further information about storage conditions: Keep containers tightly sealed.
- Specific end use(s) No relevant information available.

8 Exposure controls/personal protection

[·] Control parameters

•	Control parameters		
-	· Components with limit values that require monitoring at the workplace:		
67-63-0 Propan	n-2-ol		
PEL (USA)	Long-term value: 980 mg/m ³ , 400 ppm		
REL (USA)	Short-term value: 1225 mg/m ³ , 500 ppm Long-term value: 980 mg/m ³ , 400 ppm		
TLV (USA)	Short-term value: 984 mg/m ³ , 400 ppm Long-term value: 492 mg/m ³ , 200 ppm BEI		
EL (Canada)	Short-term value: 400 ppm Long-term value: 200 ppm		
EV (Canada)	Short-term value: 400 ppm Long-term value: 200 ppm		
LMPE (Mexico)	Short-term value: 400 ppm Long-term value: 200 ppm A4, IBE		
64-17-5 Ethano	ol de la constante de la const		
PEL (USA)	Long-term value: 1900 mg/m ³ , 1000 ppm		
REL (USA)	Long-term value: 1900 mg/m ³ , 1000 ppm		
TLV (USA)	Short-term value: 1880 mg/m ³ , 1000 ppm		
EL (Canada)	Short-term value: 1000 ppm		
EV (Canada)	Long-term value: 1,900 mg/m ³ , 1,000 ppm		
LMPE (Mexico)	Long-term value: 1000 ppm A3		
67-56-1 Methan	nol		
PEL (USA)	Long-term value: 260 mg/m ³ , 200 ppm		
REL (USA)	Short-term value: 325 mg/m ³ , 250 ppm Long-term value: 260 mg/m ³ , 200 ppm Skin		
	(Cont'd. on page		

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	1	(Cont'd. of page 5)
TLV (USA)	Short-term value: 328 mg/m ³ , 250 ppm	
	Long-term value: 262 mg/m³, 200 ppm Skin; BEI	
EL (Canada)	Short-term value: 250 ppm	
	Long-term value: 200 ppm	
	Skin	
EV (Canada)	Short-term value: 325 mg/m ³ , 250 ppm	
	Long-term value: 260 mg/m³, 200 ppm Skin	
LMPE (Mexico)		
	Long-term value: 200 ppm	
	PIEĽ, IBE	
· Ingredients wi	th biological limit values:	
67-63-0 Propa	n-2-ol	
BEI (USA) 40 r		
	dium: urine	
	e: end of shift at end of workweek ameter: Acetone (background, nonspecific)	
67-56-1 Metha		
BEI (USA) 15 r	-	
	dium: urine	
	e: end of shift	
Par	ameter: Methanol (background, nonspecific)	
The usual preca Keep away from Immediately ren Wash hands be Do not inhale g Engineering c	ctive and hygienic measures: autionary measures for handling chemicals should be followed. In foodstuffs, beverages and feed. move all soiled and contaminated clothing. efore breaks and at the end of work. ases / fumes / aerosols. controls: Provide adequate ventilation. ipment: In case of inadequate ventilation wear respiratory protection.	
Protect	tive gloves	
Material of glo Nitrile rubber, N Neoprene glove Butyl rubber, Bl • Eye protection	IBR es R	ne preparation.
Follow relevant	national guidelines concerning the use of protective eyewear.	
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· Body protection: Protective work clothing

· Limitation and supervision of exposure into the environment No relevant information available.

· Risk management measures No relevant information available.

9 Physical and chemical prope	rties
 Information on basic physical and chemical properties Appearance: 	
Form:	Liquid
Color:	Colorless
· Odor:	Like alcohol
· Odor threshold:	Not determined.
· pH-value:	Not determined.
 Melting point/Melting range: 	Not determined.
 Boiling point/Boiling range: 	64.7 ℃ (148.5 °F)
· Flash point:	13 ℃ (55.4 °F)
· Flammability (solid, gaseous):	Not applicable.
· Auto-ignition temperature:	425 ℃ (797 °F)
· Decomposition temperature:	Not determined.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/ vapor mixtures are possible.
· Explosion limits	
Lower:	2 Vol %
Upper:	15 Vol %
 Oxidizing properties: 	Not determined.
· Vapor pressure at 20 °C (68 °F):	59 hPa (44.3 mm Hg)
· Density at 20 °C (68 °F):	0.89 g/cm³ (7.43 lbs/gal)
 Relative density: 	0.85-0.96
 Vapor density: 	Not determined.
 Evaporation rate: 	Not determined.
 Solubility in / Miscibility with 	
Water:	Fully miscible.
· Partition coefficient (n-octanol/wate	er): Not determined.
· Viscosity	
Dynamic:	Not determined.
Kinematic:	Not determined.
[.] Other information	No relevant information available.

10 Stability and reactivity

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· Reactivity: Reacts with alkali (lyes). Reacts with certain metals. · Chemical stability: Stable under normal temperatures and pressures.

· Thermal decomposition / conditions to be avoided: No decomposition if used and stored according to specifications.

Possibility of hazardous reactions

Reacts violently with oxidizing agents.

Reacts with strong acids.

Toxic fumes may be released if heated above the decomposition point.

Conditions to avoid Excessive heat.

Incompatible materials Oxidizers

· Hazardous decomposition products

Under fire conditions only:

Carbon monoxide and carbon dioxide

11 Toxicological information

Information on toxicological effects

· Acute toxicity: Harmful if swallowed, in contact with skin or if inhaled.

· LD/LC50 values that are relevant for classification: None.

· Primary irritant effect:

- On the skin: Based on available data, the classification criteria are not met.
- · On the eve: Irritating effect.
- · Sensitization: Based on available data, the classification criteria are not met.

· IARC (International Agency for Research on Cancer):

67-63-0 Propan-2-ol

64-17-5 Ethanol

77-09-8 phenolphthalein

· NTP (National Toxicology Program):

77-09-8 phenolphthalein

· OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

· Probable route(s) of exposure:

Ingestion.

Inhalation.

Eve contact.

Skin contact.

· Acute effects (acute toxicity, irritation and corrosivity):

Toxic if swallowed, in contact with skin or if inhaled.

Causes serious eye irritation.

· Repeated dose toxicity: Possible risk of irreversible effects.

- · Germ cell mutagenicity: Suspected of causing genetic defects.
- · Carcinogenicity: May cause cancer.
- · Reproductive toxicity: Suspected of damaging fertility or the unborn child.

• STOT-single exposure: May cause damage to the central nervous system and optic nerve.

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3

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2B

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• **STOT-repeated exposure:** Based on available data, the classification criteria are not met. • **Aspiration hazard:** Based on available data, the classification criteria are not met.

12 Ecological information

- [.] Toxicity
- · Aquatic toxicity No relevant information available.
- · Persistence and degradability No relevant information available.
- · Bioaccumulative potential: No relevant information available.
- Mobility in soil: No relevant information available.
- [•] Additional ecological information
- · General notes: Do not allow product to reach ground water, water course or sewage system.
- [·] Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No relevant information available.

13 Disposal considerations

[.] Waste treatment methods

· Recommendation:

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: Water, if necessary with cleansing agents.

· UN-Number	
· DOT, ADR/RID/ADN, IMDG, IATA	UN1987
[.] UN proper shipping name	
DOT	Alcohols, n.o.s. (ISOPROPANOL, Ethanol, Methanol)
· ADR/RID/ADN, IMDG, IATA	ALCOHOLS, N.O.S. (ISOPROPANOL, ETHANC METHANOL)
[·] Transport hazard class(es)	
· DOT	
· Class	3

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	(Cont'd. of page
Label	3
ADR/RID/ADN	
Class	3 (F1)
Label	3
IMDG, IATA	
Class	3
Label	3
Packing group DOT, ADR/RID/ADN, IMDG, IATA	II
Environmental hazards Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids
Danger code (Kemler):	33
EMS Number:	F-E,S-D
Transport in bulk according to Annex	
MARPOL73/78 and the IBC Code	Not applicable.

15 Regulatory information

[•] Safety, health and environmental regulations/legislation specific for the substance or mixture

- · United States (USA)
- · SARA

· Section 302 (extremely hazardous substances):

None of the ingredients are listed.

· Section 355 (extremely hazardous substances):

None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):

67-63-0 Propan-2-ol

67-56-1 Methanol

· TSCA (Toxic Substances Control Act)

All ingredients are listed.

· Proposition 65 (California)

· Chemicals known to cause cancer:

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3

1

2B

Ethanol - listing refers specifically to alcoholic beverage consumption and is not applicable for product. 64-17-5 [Ethanol

77-09-8 phenolphthalein

· Chemicals known to cause developmental toxicity for females:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity for males:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity:

Ethanol - listing refers specifically to alcoholic beverage consumption and is not applicable for product.

64-17-5 Ethanol

67-56-1 Methanol

· EPA (Environmental Protection Agency):

None of the ingredients are listed.

· IARC (International Agency for Research on Cancer):

67-63-0 Propan-2-ol

64-17-5 Ethanol

77-09-8 phenolphthalein

· Canadian Domestic Substances List (DSL) (Substances not listed.):

All ingredients are listed.

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.

Abbreviations and acronyms:

ADR: 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 CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistant, Bio-accumulable, Toxic vPvB: very Persistent and very Bioaccumulative OSHA: Occupational Safety & Health Administration Flam. Liq. 2: Flammable liquids - Category 2 Acute Tox. 3: Acute toxicity – Category 3 Acute Tox. 4: Acute toxicity – Category 4 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A Eye Irrit. 2B: Serious eye damage/eye irritation - Category 2B Muta. 2: Germ cell mutagenicity – Category 2 Carc. 1B: Carcinogenicity – Category 1B Carc. 2: Carcinogenicity – Category 2 Repr. 2: Reproductive toxicity - Category 2 STOT SE 1: Specific target organ toxicity (single exposure) - Category 1 STOT SE 2: Specific target organ toxicity (single exposure) - Category 2 STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 Sources Website, European Chemicals Agency (echa.europa.eu) Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ (Cont'd. on page 12)

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overview/home.do) Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5. Safety Data Sheets, Individual Manufacturers 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