# SAFETY DATA SHEET



# **Captain® Liquid Copper Algaecide**

Section 1. Identification	
GHS product identifier	: Captain <sup>®</sup> Liquid Copper Algaecide
Other means of identification	: Not available.
EPA Registration No. :	67690-9
Relevant identified uses of	f the substance or mixture
Aquatic Algaecide.	
Supplier's details	: SePRO Corporation 11550 North Meridian Street Suite 600 Carmel, IN 46032 U.S.A. Tel: 317-580-8282 Toll free: 1-800-419-7779 Fax: 317-580-8290 Monday - Friday, 8am to 5pm E.S.T. www.sepro.com
Emergency telephone number (with hours of operation)	: INFOTRAC - 24-hour service 1-800-535-5053

The following recommendations for exposure controls and personal protection are intended for the manufacture, formulation and packaging of this product. For applications and/or use, consult the product label. The label directions supersede the text of this Safety Data Sheet for application and/or use.

### Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
GHS label elements	
Hazard pictograms	: Exclamation mark
Signal word	: Warning
Hazard statements	: Harmful if swallowed. Causes serious eye irritation. Causes skin irritation.
Precautionary statements	
Prevention	: Wear protective gloves. Wear eye or face protection. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.



Captain® Liquid Copper Algaecide

# Section 2. Hazards identification

Response	: IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
Storage	: Not applicable.
Disposal	<ul> <li>Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> </ul>
Hazards not otherwise classified	: None known.

# Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of	: Not available.
identification	

#### **CAS number/other identifiers**

: Not applicable.

Ingredient name	%	CAS number
Copper Triethanolamine Complex	9.6	82027-59-6
Copper Monoethanolamine Complex	13.3	14215-52-2
Proprietary ingredient 1	10 - 30	-
Proprietary ingredient 2	10 - 30	-
Proprietary ingredient 3	10 - 30	-
Proprietary ingredient 4	30 - 60	-

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

# Section 4. First aid measures

#### Description of necessary first aid measures

Eye contact	<ul> <li>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Get medical attention.</li> </ul>
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	: Flush contaminated skin with plenty of water. Continue to rinse for at least 20 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

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#### Section 4. First aid measures Ingestion : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Most important symptoms/effects, acute and delayed Potential acute health effects Eye contact : Causes serious eye irritation. Inhalation : Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. Skin contact : Causes skin irritation. : Harmful if swallowed. Irritating to mouth, throat and stomach. Ingestion Over-exposure signs/symptoms Eye contact : Adverse symptoms may include the following: pain or irritation watering redness Inhalation : No known significant effects or critical hazards. Skin contact : Adverse symptoms may include the following: irritation redness Ingestion : No known significant effects or critical hazards. Indication of immediate medical attention and special treatment needed, if necessary : In case of inhalation of decomposition products in a fire, symptoms may be delayed. Notes to physician The exposed person may need to be kept under medical surveillance for 48 hours. Specific treatments : No specific treatment. Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

### Section 5. Fire-fighting measures

<u>Extinguishing media</u>	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: No specific fire or explosion hazard.



# Section 5. Fire-fighting measures

Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides
Special protective actions for fire-fighters	: No special measures are required.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for containment and cleaning up		
Spill	:	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect

spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### Section 7. Handling and storage

#### Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

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# Section 7. Handling and storage

Conditions for safe storage,	: Store in accordance with local regulations. Store in original container protected from
including any	direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials
incompatibilities	(see Section 10) and food and drink. Keep container tightly closed and sealed until
	ready for use. Containers that have been opened must be carefully resealed and kept
	upright to prevent leakage. Do not store in unlabeled containers. Use appropriate
	containment to avoid environmental contamination.

### Section 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

Ingredient name	Exposure limits	
Proprietary ingredient 1	ACGIH TLV (United States, 3/2012).	
	TWA: 5 mg/m <sup>3</sup> 8 hours.	
Proprietary ingredient 2	ACGIH TLV (United States, 2/2010).	
	STEL: 15 mg/m <sup>3</sup> 15 minutes.	
	STEL: 6 ppm 15 minutes.	
	TWA: 7.5 mg/m <sup>3</sup> 8 hours.	
	TWA: 3 ppm 8 hours.	
	NIOSH REL (United States, 6/2009).	
	STEL: 15 mg/m <sup>3</sup> 15 minutes.	
	STEL: 6 ppm 15 minutes.	
	TWA: 8 mg/m <sup>3</sup> 10 hours.	
	TWA: 3 ppm 10 hours.	
	OSHA PEL (United States, 6/2010).	
	TWA: 6 mg/m <sup>3</sup> 8 hours.	
	TWA: 3 ppm 8 hours.	

Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.
Individual protection meas	ures
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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# Section 8. Exposure controls/personal protection

Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

# Section 9. Physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Blue. [Dark]
Odor	: Ammoniacal. [Slight]
Odor threshold	: Not available.
рН	: 10 to 10.5
Melting point	: Not available.
Boiling point	: 100°C (212°F)
Flash point	: Open cup: >93.3°C (>199.9°F)
Burning time	: Not applicable.
Burning rate	: Not applicable.
Evaporation rate	: <1 (Butyl acetate = 1)
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: 2.3 kPa (17 mm Hg) [room temperature]
Vapor density	: 3.5 [Air = 1]
Relative density	: 1.2
Solubility	: Miscible in water.
Solubility in water	: Not available.
Partition coefficient: n- octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: 198.89°C (390°F)
SADT	: Not available.
Viscosity	: Not available.
Section 10 Stabili	ty and reactivity

### Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.



### Section 10. Stability and reactivity

Incompatible materials	:	Reactive or incompatible with the following materials: oxidizing materials, acids and alkalis. Strong acids and nitrites.
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### Section 11. Toxicological information

#### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Captain <sup>®</sup> Liquid Copper Algaecide	LD50 Dermal LD50 Oral		>2000 mg/kg 590 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Captain <sup>®</sup> Liquid Copper Algaecide	<b>,</b>	Rabbit Rabbit	-	0.1 ml 0.5 ml	-

#### **Sensitization**

Product/ingredient name	Route of exposure	Species	Result
Captain <sup>®</sup> Liquid Copper Algaecide	skin	Guinea pig	Not sensitizing

#### Mutagenicity

There is no data available.

#### **Carcinogenicity**

There is no data available.

#### Reproductive toxicity

There is no data available.

#### **Teratogenicity**

There is no data available.

#### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Proprietary ingredient 2	Category 3	Not applicable.	Respiratory tract irritation

#### Specific target organ toxicity (repeated exposure)

There is no data available.

#### Aspiration hazard

There is no data available.

Information on the likely : Routes of entry anticipated: Oral, Dermal, Inhalation, Eye.

#### routes of exposure

 Potential acute health effects

 Eye contact
 : Causes serious eye irritation.

 Inhalation
 : Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.



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### Section 11. Toxicological information

Skin contact Ingestion

- : Causes skin irritation.
- : Harmful if swallowed. Irritating to mouth, throat and stomach.

#### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No known significant effects or critical hazards.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

<u>Short term exposure</u>	
Potential immediate effects	: No known significant effects or critical hazards.
Potential delayed effects	: No known significant effects or critical hazards.
Long term exposure	
Potential immediate effects	: No known significant effects or critical hazards.
Potential delayed effects	: No known significant effects or critical hazards.
Potential chronic health eff	ects
General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

#### Numerical measures of toxicity

Acute toxicity estimates

There is no data available.

# Section 12. Ecological information

#### <u>Toxicity</u>

Product/ingredient name	Result	Species	Exposure
Proprietary ingredient 1	Acute EC50 609.98 mg/L Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 11800 mg/L Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 16 mg/L Fresh water	Daphnia - Daphnia magna	21 days
Proprietary ingredient 2	Acute EC50 80 mg/L Fresh water	Algae - Isochrysis galbana	96 hours
	Acute LC50 >100 mg/L Marine water	Crustaceans - Crangon crangon - Adult	48 hours
	Acute LC50 170 mg/L Fresh water	Fish - Carassius auratus	96 hours
Proprietary ingredient 3	Acute EC50 4.53 mg/L Fresh water	Crustaceans - <i>Ceriodaphnia dubia -</i> Neonate	48 hours

# Section 12. Ecological information

#### Persistence and degradability

There is no data available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Proprietary ingredient 2	-1.31	-	low

#### Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	

Other adverse effects : No known significant effects or critical hazards.

### Section 13. Disposal considerations

Disposal methods	: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and
	dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# Section 14. Transport information

	DOT Classification	IMDG	IATA
UN number	UN1760	UN1760	UN1760
UN proper shipping name	CORROSIVE LIQUID, N.O.S.(Alkanoamines)	CORROSIVE LIQUID, N.O.S. (Alkanoamines). Marine pollutant (Copper Monoethanolamine Complex, Copper Triethanolamine Complex)	CORROSIVE LIQUID, N.O.S.(Alkanoamines)
Transport hazard class(es)	8	8	8
Packing group	Ш	Ш	
Environmental hazards	No.	Yes.	No.
Additional information	- FOR PACKAGES SIZES GREATER THAN ONE GALLON	-FOR PACKAGES SIZES GREATER THAN ONE GALLON	-FOR PACKAGES SIZES GREATER THAN ONE GALLON



# Section 14. Transport information

Special precautions for user	:	<b>Transport within user's premises:</b> always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
Transport in bulk according	:	Not available.

to Annex II of MARPOL 73/78 and the IBC Code

### Section 15. Regulatory information

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U.S. Federal regulations	:	TSCA 8(a)	CDR Exer	npt/Parti	al exemption:	Not determine	ed	
		Commerce	e control li	st precu	<b>rsor</b> : Proprieta	ry ingredient 1		
		United Sta	ites invent	ory (TSC	A 8b): Not det	ermined.		
		Clean Wat Triethanola	•		Copper Monoe	thanolamine C	omplex; Copp	er
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	:	Not listed						
Clean Air Act Section 602 Class I Substances	:	Not listed						
Clean Air Act Section 602 Class II Substances	:	Not listed						
DEA List I Chemicals (Precursor Chemicals)	:	Not listed						
DEA List II Chemicals (Essential Chemicals)	:	Not listed						
<u>SARA 302/304</u>								
Composition/information	on	ingredients	1					
No products were found.								
SARA 304 RQ	:	Not applica	able.					
<u>SARA 311/312</u>								
Classification	:	Immediate	(acute) hea	alth haza	rd			
Composition/information	on	ingredients	1					
Name		%		Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard

#### SARA 313

Proprietary ingredient 2 Proprietary ingredient 3

	Product name	CAS number	%
Form R - Reporting requirements	FF F -		13.3 9.6
Supplier notification			13.3 9.6

No.

No.

No.

No.

No.

No.

10 - 30

10 - 30

Yes.

Yes.

No.

No.

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### Section 15. Regulatory information

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations	
Massachusetts	: The following components are listed: Proprietary ingredient 1; Proprietary ingredient 2
New York	: None of the components are listed.
New Jersey	: The following components are listed: Proprietary ingredient 1; Proprietary ingredient 2; Copper Monoethanolamine Complex; Copper Triethanolamine Complex
Pennsylvania	: The following components are listed: Proprietary ingredient 1; Proprietary ingredient 2; Copper Monoethanolamine Complex; Copper Triethanolamine Complex
<u>California Prop. 65</u>	
No products were found.	
International regulations	
International lists	<ul> <li>Australia inventory (AICS): Not determined.</li> <li>China inventory (IECSC): Not determined.</li> <li>Japan inventory: Not determined.</li> <li>Korea inventory: Not determined.</li> <li>Malaysia Inventory (EHS Register): Not determined.</li> <li>New Zealand Inventory of Chemicals (NZIoC): Not determined.</li> <li>Philippines inventory (PICCS): Not determined.</li> <li>Taiwan inventory (CSNN): Not determined.</li> </ul>
Chemical Weapons Convention List Schedule I Chemicals	: Not listed
Chemical Weapons Convention List Schedule II Chemicals	: Not listed
Chemical Weapons Convention List Schedule III Chemicals	: Listed

### Section 16. Other information

#### Hazardous Material Information System (U.S.A.)

Health : 3 \* Flammability : 1 Physical hazards :

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

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The customer is responsible for determining the PPE code for this material.

#### National Fire Protection Association (U.S.A.)

#### Health: 3 Flammability: 1 Instability: 0

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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.



# Section 16. Other information

<u>History</u>		
Date of issue mm/dd/yyyy	:	06/08/2016
Date of previous issue	:	07/15/2015
Version	:	5
Revised Section(s)	:	14
Prepared by	:	SePRO Corp.
Key to abbreviations	:	ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations
Notion to reader		

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.