



MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: REVIVE!		DATE: May 31, 2011	
PRODUCT NUMBER:		DATE PREPARED: May 31, 2011	
TRADE NAME: REVIVE! GENERAL USE: Swimming pool water treatment CHEMICAL FAMILY: Inorganic PRODUCT DESCRIPTION: Colorless Clear Liquid.			
MANUFACTURED FOR APi			
TELEPHONE NUMBER (General Inquiries) 561-743-0449		SUPERSEDES: January 1, 2011	
ADDRESS (NUMBER, STREET, P.O. BOX) 880 Jupiter Park Drive, Suite 14 (CITY, STATE AND ZIP CODE) Jupiter, FL 33458		CHEMTEL 24-HOUR EMERGENCY TELEPHONE NUMBERS	
COUNTRY USA			1-800-255-3924 North America (Toll Free)
			813-248-0585 International and Local Calls

SECTION 2 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW


Caution! Causes irritation and possible burns by all exposure routes. Target Organs: Respiratory system, gastrointestinal system, eyes, skin.

DESCRIPTION: REVIVE! is a 15-25% Active ingredient solution in water. Product is non-flammable, but may produce irritating vapors under fire conditions.

USDOT HAZARD SYMBOL(S)
None

HMIS HAZARD RATINGS		HEALTH:	1
0 = INSIGNIFICANT, 1 = SLIGHT , 2 = MODERATE, 3 = HIGH, 4 = EXTREME		FLAMMABILITY:	0
		PHYSICAL HAZARD:	0

REQUIRED PERSONAL PROTECTIVE EQUIPMENT:

HMIS PERSONAL PROTECTIVE EQUIPMENT LETTER:	Safety glasses, gloves and apron should be worn while handling product.	
C		

POTENTIAL HEALTH EFFECTS

INHALATION:
May be harmful if inhaled. Causes respiratory tract irritation.

SKIN:
May be harmful if absorbed through skin. Causes skin irritation

EYES:
Causes eye irritation.

INGESTION:
May be harmful if swallowed.

CARCINOGENICITY:

NTP? NO	IARC MONOGRAPHS? NO	OSHA REGULATED? NO
CALIFORNIA, Prop.65? NO		ESIS NOTATION? NO

SECTION 3 - HAZARDOUS INGREDIENTS

Hazardous Components	% (by Weight)	CAS #
Proprietary	Proprietary	Proprietary

NOTES: This Material Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS), and European Union Directives. Hazard symbols and risk phrases are based on maximum listed concentration of each hazardous ingredient. Unlisted ingredients are not "hazardous" per the OSHA Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS) or the European (GHS) directives and are considered trade secrets under US Federal Law (29CFR and 40CFR), Canadian Law (Health Canada Legislation), and European Union Directives.

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SECTION 4 - FIRST AID MEASURES

INHALATION:
Remove victim to fresh air. Seek medical attention if breathing remains difficult.

EYES:
Remove contact lenses if possible. Immediately flush eyes with copious amounts of potable water for 15 min. Seek medical attention if irritation persists.

SKIN:
Wash material off skin with copious amounts of soap and water.

INGESTION:
Do not induce vomiting. Get medical aid immediately. Call a poison control center.

SECTION 5 - FIRE FIGHTING MEASURES

GENERAL HAZARDS:
As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

EXTINGUISHING MEDIA:
Use water spray, dry chemical, carbon dioxide, or chemical foam.

FIRE FIGHTING PROCEDURES:
Not flammable or combustible.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
None.

HAZARDOUS COMBUSTION PRODUCTS:
Aluminum oxides, Aluminum Chlorides. May emit noxious fumes under fire conditions.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:
Vacuum or mop up material and place into a suitable disposal container.
Avoid generating dusty conditions from dried product. Provide ventilation. Do not let this chemical enter the environment.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:
Handling: Do not get in eyes, on skin, or on clothing. Do not ingest or inhale.
Storage: Store in a cool, dry place. Store in a tightly closed container.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Hazardous Components	CAS #	ACGIH Exposure Limits (mg/m3 unless otherwise noted)	OSHA Exposure Limits (mg/m3 unless otherwise noted)
Proprietary	Proprietary	NE	NE

PERSONAL PROTECTION

RESPIRATORY PROTECTION:
Give adequate ventilation to the premises where the product is stored and/or handled. Wear a dust mask if removing dried product generating dusty conditions.

PROTECTIVE GLOVES:
Use any impermeable gloves to protect hands from skin contact with this product.

EYE PROTECTION:
Wear safety glasses with splash protective side shields or chemical safety goggles.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:
Not needed for normal use.

WORK / HYGIENIC PRACTICES:
Use good personal hygiene, washing exposed areas of skin several times daily before eating drinking, smoking or using restroom facilities. Launder contaminated clothing before re-use.

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES			
APPEARANCE AND ODOR Colorless, clear liquid.		VAPOR PRESSURE NA	
pH 4.0 - 4.4 (15% @ 25°C)		SPECIFIC GRAVITY (WATER = 1) 1.33 @ 25°C	
MELTING POINT NE		SOLUBILITY IN WATER Soluble	
FLASH POINT None		VISCOSITY NA	
FLAMMABLE LIMITS LEL: None UEL: None		VAPOR DENSITY (AIR = 1) NA	
AUTOIGNITION TEMPERATURE NA		EVAPORATION RATE (WATER = 1) NA	
VOLATILE ORGANIC COMPOUND (VOC) INFORMATION NA			
SECTION 10 - STABILITY AND REACTIVITY			
STABILITY Stable.		CONDITIONS TO AVOID: Oxidizing materials and direct sunlight for periods.	
INCOMPATIBILITY (MATERIALS TO AVOID): Oxidizing materials and direct sunlight for periods.			
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Aluminum oxides, Aluminum Chlorides. May emit noxious fumes under fire conditions.			
HAZARDOUS POLYMERIZATION: Will not occur.		CONDITIONS TO AVOID: None related to polymerization.	
SECTION 11 - TOXICOLOGICAL INFORMATION			
Complete Product			
Oral LD ₅₀	Product is likely to be a gastro-intestinal irritant.		
Dermal LD ₅₀	Product is irritating by contact with skin.		
Inhalation LC ₅₀	Not known - product is an irritant to the respiratory tract.		
Irritation	Severe irritant to eyes moderate irritant to respiratory tract and to skin .		
Product Components			
Hazardous Components	CAS #	LD50 of Ingredient (Oral, Rat - unless otherwise specified)	LC50 of Ingredient (Inhalation, Rat - unless otherwise specified)
Proprietary	Proprietary	3311 mg/kg	NE
SECTION 12 - ECOLOGICAL INFORMATION			
Do not empty into drains.			
SECTION 13 - DISPOSAL CONSIDERATIONS			
WASTE DISPOSAL METHOD: Dispose of in a manner consistent with federal, state, and local regulations.			
SECTION 14 - TRANSPORT INFORMATION			
PROPER SHIPPING NAME: None			
DOT HAZARD CLASS / Pack Group: None		IATA HAZARD CLASS / Pack Group: None	
REFERENCE: 49CFR, IMDG, IATA		IMDG HAZARD CLASS: None	
UN / NA IDENTIFICATION NUMBER: None		UN TDG Class / Pack Group: None	
LABEL: None			
HAZARD SYMBOLS: None			
<p>Note: Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100 - 177, IMDG, IATA, EU, United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.</p>			

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SECTION 15 - REGULATORY INFORMATION

TSCA (USA - Toxic Substance Control Act):		Listed	
SARA TITLE III (USA - Superfund Amendments and Reauthorization Act):			
Acute Health:	Yes	Chronic Health:	NO
Fire:	NO	Sudden Release of Pressure:	NO
Reactive:	NO		

SARA 313 REPORTABLE INGREDIENTS:	None
CERCLA (USA - Comprehensive Response Compensation and Liability Act):	None
California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986:	None

SECTION 16 - OTHER INFORMATION

Legend:

ACGIH	American Congress of Government Industrial Hygienists		
CAS	Chemical Abstracts Service		
HMIS	Hazardous Materials Identification System		
IARC	International Agency for Research on Cancer		
NA	Not Available	ND	Not Determined
NE	Not Established	NR	Not Reported
NIOSH	National Institute for Occupational Safety and Health		
NTP	National Toxicology Program		
OSHA	Occupational Safety and Health Administration		

REVISION SUMMARY:
 Revised to US and Canada (WHMIS) standards 5/31/2011 supersedes previous issues. --JTV--

MSDS 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



The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.