

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: EZ Spa Down		DATE: June 22, 2011				
PRODUCT NUMBER:		DATE PREPARED: June 22, 2011				
TRADE NAME: EZ Spa Down GENERAL USE: pH reducer CHEMICAL FAMILY: Inorganic Acid Salt PRODUCT DESCRIPTION: Solid Odorless White/Grey-White Free Flowing Particles.						
MANUFACTURED FOR APi						
TELEPHONE NUMBER (General Inquiries) 561-743-0449		SUPERSEDES: December 18, 2007				
ADDRESS (NUMBER, STREET, P.O. BOX) 880 Jupiter Park Drive, Suite 14 (CITY, STATE AND ZIP CODE)		CHEMTEL 24-HOUR EMERGENCY TELEPHONE NUMBERS				
JUPITER, FL 33458		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; text-align: center;"> ChemTel INC. </td> <td style="width: 33%; text-align: center;"> 1-800-255-3924 North America (Toll Free) </td> <td style="width: 33%; text-align: center;"> 813-248-0585 International and Local Calls </td> </tr> </table>		 ChemTel INC.	1-800-255-3924 North America (Toll Free)	813-248-0585 International and Local Calls
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COUNTRY USA						

SECTION 2 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
 Danger! Causes eye and skin burns. Causes digestive and respiratory tract burns. Corrosive to aluminum in aqueous solution. Hygroscopic (absorbs moisture from the air). Target Organs: Respiratory system, gastrointestinal system, eyes, skin. Powder may cause irritation/burns after absorbing water.

US DOT HAZARD SYMBOL(S) CANADA (WHMIS)

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

REQUIRED PERSONAL PROTECTIVE EQUIPMENT:

HMIS PERSONAL PROTECTIVE EQUIPMENT LETTER: C

Safety glasses, gloves and apron should be worn while handling product.

POTENTIAL HEALTH EFFECTS

INHALATION:
 May cause severe irritation of the respiratory tract with sore throat, coughing, shortness of breath and delayed

SKIN:
 Contact with skin causes irritation and possible burns, especially if the skin is wet or moist.

EYES:
 Causes eye burns.

INGESTION:
 May cause burns to the digestive tract. Ingestion causes gastrointestinal irritation, nausea, vomiting and diarrhea.

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 #
Sodium bisulfate	NR	7681-38-1
Sodium sulfate	NR	7757-82-6

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 cool potable water for 15 min. Seek medical attention.

SKIN:
Wash material off skin with copious amounts of soap and water. Seek medical attention for burns, blistering, or rash.

INGESTION:
Do not induce vomiting. Give water to drink if victim is able to swallow. Get emergency medical aid immediately.

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:
Will form corrosive or irritating liquid when mixed with water - additional dilution reduces this effect greatly.

HAZARDOUS COMBUSTION PRODUCTS:
Oxides of sulfur at >570°F.

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. Sweep up as much as possible for safe disposal. Wash area down with large amounts of water and if necessary, neutralize washings with alkali or lime; pH paper is helpful for this determination.. Use a registered waste disposal contractor or an effluent plant able to neutralize acids. Comply with all federal, state and local regulations.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:
Handling: Wear protective gear while handling product. 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. Product is hygroscopic; avoid humid conditions.

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)
Sodium bisulfate	7681-38-1	NE	NE
Sodium sulfate	7757-82-6	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:
A safety shower and eye bath should be available. For operations where spills or splashing of concentrated solutions of product may occur, use an impervious body covering and boots.

WORK / HYGIENIC PRACTICES:
Use good personal hygiene, washing exposed areas of skin before eating drinking, smoking or using restroom facilities. Launder contaminated clothing before re-use. Powder may cause irritation/burns after absorbing water.

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES			
APPEARANCE AND ODOR Solid Odorless White/Grey-White Free Flowing Particles.		VAPOR PRESSURE 1.0 mmHg @ 25°C	
pH 1.4 (1% solution).		SPECIFIC GRAVITY (WATER = 1) 2.7	
MELTING POINT Approximately 338°F (170°C)		SOLUBILITY IN WATER Complete.	
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: Store in a dry area to avoid moisture contact.	
INCOMPATIBILITY (MATERIALS TO AVOID): Avoid contact with strong alkaline materials. Reacts with water to form weak sulfuric acid solution. Do not mix with chlorine-containing products such as bleaches and pool chemicals except as specifically instructed by manufacturer.			
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: None unless heated >570°F forming oxides of sulfur.			
HAZARDOUS POLYMERIZATION: Will not occur.		CONDITIONS TO AVOID: None related to polymerization.	
SECTION 11 - TOXICOLOGICAL INFORMATION			
Complete Product			
Oral LD₅₀	Harmful or fatal if swallowed. Product is likely to be a gastro-intestinal irritant.		
Dermal LD₅₀	Product is irritating by contact with skin. Concentrated product solutions may cause burns.		
Inhalation LC₅₀	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)
Complete Product	NA	2,100 mg/kg	NE
SECTION 12 - ECOLOGICAL INFORMATION			
Not available, though powder product may be harmful to aquatic environments in large quantities. 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: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Sodium Bisulfate)			
DOT HAZARD CLASS / Pack Group: Class 8 / PG III		IATA HAZARD CLASS / Pack Group: Class 8, PG III	
REFERENCE: 49CFR, IMDG, IATA		IMDG HAZARD CLASS: Class 8 Corrosive Solid.	
UN / NA IDENTIFICATION NUMBER: UN3260		UN TDG Class / Pack Group: UN3260/PG III	
LABEL: Corrosive , 8			
HAZARD SYMBOLS:			
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.			

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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**

State right to know lists: **CAS# 7681-38-1 is listed in New Jersey.**

CPR (Canadian Controlled Products Regulations): **This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations. Canadian WHMIS Classifications: E. Corrosive.**



IDL (Canadian Ingredient Disclosure List): **Listed as required.**

DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List): **Listed on DSL or NDSL.**

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 6/22/2011 supersedes 12/18/2007 issue. --JTV--

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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.