

**OREQ CORPORATION**  
42306 Remington Avenue Temecula CA 92590

**Pool Pals®**  
**MATERIAL SAFETY DATA SHEET**

INFORMATION ON THIS FORM IS FURNISHED SOLELY FOR THE PURPOSE OF COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND SHALL NOT BE USED FOR ANY OTHER PURPOSE USE OR DISSEMINATION OF ALL OR ANY PART OF THIS INFORMATION FOR ANY OTHER PURPOSE MAY RESULT IN A VIOLATION OF LAW OR CONSTITUTE GROUNDS FOR LEGAL ACTION

**SECTION I**

<b>MANUFACTURER'S NAME</b> ARCH CHEMICALS, INC.	<b>EMERGENCY TELEPHONE</b> CHEMTREC 1-800-424-9300
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<b>TRADE NAME AND SYNONYMS</b> Pool Pals® Shock-A-Lot	<b>EPA REG. NO.</b> 1258-427-75538
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<b>CHEMICAL NAME AND SYNONYMS</b> CALCIUM HYPOCHLORITE
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<b>CHEMICAL FAMILY</b> INORGANIC CHLORINE	<b>FORMULA</b> Ca(OCl) <sub>2</sub>
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**SECTION II – HAZARDOUS INGREDIENTS/IDENTITY INFORMATION**

<b>COMPONENT</b>		<b>HAZARD DATA</b> - Oxidizer
CALCIUM HYPOCHLORITE	68%	
INERT	32%	(PEL OSHA PPM) –3 mg/Meter <sup>3</sup> (ceiling) as chlorine: Manufacturer's internal exposure standard

**SECTION III – PHYSICAL/CHEMICAL CHARACTERISTICS**

<b>BOILING POINT</b> N/A	<b>SPECIFIC GRAVITY (H20-1)</b> N/A	<b>BULK DENSITY</b> .08 g/cc, loose
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<b>VAPOR PRESSURE (MM Hg.)</b> N/A	<b>VAPOR DENSITY (AIR=1)</b> N/A
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<b>SOLUBILITY IN WATER</b> Approx. 18% @25 Deg. C	<b>MELTING POINT</b> NOT ESTABLISHED	<b>pH</b> @25 Deg. C 10.4-10.8 (1% solution)
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<b>APPEARANCE AND ODOR</b> WHITE POWDER WITH CHLORINE LIKE ODOR	<b>EVAPORATION RATE</b> N/A
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**SECTION IV – FIRE AND EXPLOSION HAZARDS**

<b>FLASH POINT (METHOD USED)</b> NONE	<b>FLAMMABLE LIMITS</b> N/A
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**EXTINGUISHING MEDIA** – WATER ONLY! SMOTHERING IS INEFFECTIVE, PRODUCT SUPPLIES OWN OXYGEN

**SPECIAL FIRE FIGHTING PROCEDURES** – FIRE FIGHTERS MUST WEAR NIOSH/MSHA APPROVED PRESSURE DEMAND SELF CONTAINED BREATHING APPARATUS WITH FULL FACE PIECE FOR POSSIBLE EXPOSURE TO HAZARDOUS GASES.

**UNUSUAL FIRE AND EXPLOSION HAZARDS** – DECOMPOSES AT 180°C RELEASING OXYGEN GAS: CONTAINER MAY RUPTURE.

**SECTION V – HEALTH HAZARD DATA**

<b>THRESHOLD LIMIT VALUE</b> – NOT DETERMINED
<b>TOXICITY</b> – LC50 INHALATION-(RAT) NO MORTALITY @ 3.5MG/L (1HR) LD50 DERMAL (RABBIT) >1000MG/KG FISH, LC50 (LETHAL CONCENTRATION) TLM 96HR: 10-1 PPM. IT IS NOT LISTED BY NTP,IARC, OR OSHA AS A CARCINOGEN

**ROUTES OF ENTRY** – INHALATION, EYE CONTACT, SKIN CONTACT, INGESTION

**EFFECTS OF OVER-EXPOSURE** – **INHALATION:** INHALATION OF DUST AND DEPOSITION OF PARTICLES IN RESPIRATORY TRACT CAN LEAD TO IRRITATION – EFFECTS DEPENDENT UPON CONCENTRATION – UPPER RESPIRATORY TRACT IRRITATION, NASAL CONGESTION, COUGHING, SORE THROAT, LARYNGITIS AND SHORTNESS OF BREATH. IN HIGH CONCENTRATIONS OF RESPIRABLE PARTICULATE, FLUID IN THE LUNGS MAY BE PRODUCED. **EYES/SKIN:** CORROSIVE TO EYES, EVEN MINUTE AMOUNTS CAN CAUSE SEVERE IRRITATION, EVEN BLINDNESS. CONTACT WITH SKIN MAY CAUSE SEVERE IRRITATION, BURNS OR TISSUE DESTRUCTION. **INGESTION:** IF SWALLOWED, CAUSES SEVERE BURNS TO THE DIGESTIVE TRACT AND CAN BE FATAL.

**EMERGENCY AND FIRST AID PROCEDURES – INHALATION:** MOVE PERSON TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION, PREFERABLY MOUTH TO MOUTH. IF BREATHING IS DIFFICULT, GIVE OXYGEN AND CALL A PHYSICIAN. **EYE/SKIN CONTACT:** IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES AND SKIN WITH PLENTY OF WATER (SOAP AND WATER FOR SKIN) FOR AT LEAST 15 MINUTES, WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. FOR EYE CONTACT, GET IMMEDIATE MEDICAL ATTENTION. IF SKIN IRRITATION OCCURS, GET MEDICAL ATTENTION. **INGESTION:** IF SWALLOWED, GIVE AT LEAST 3-4 GLASSES OF WATER, BUT DO NOT INDUCE VOMITING. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON. GET MEDICAL ATTENTION. NOTES TO PHYSICIAN – TREAT SYMPTOMATICALLY.

#### SECTION VI – REACTIVITY DATA

##### STABILITY

UNSTABLE ABOVE 170°C (338 Deg. F)

##### CONDITIONS TO AVOID

CONTAMINATION OR EXCESSIVE HEAT ABOVE 170°C (338 Deg. F)

##### INCOMPATIBILITY

AVOID CONTACT WITH ACIDS, FLAMMABLE OR COMBUSTIBLE MATERIALS, ORGANICS, NITROGEN CONTAINING COMPOUNDS AND REDUCING AGENTS.

**HAZARDOUS DECOMPOSITION PRODUCTS** – ACIDS OR AMMONIA CONTAMINATION WILL RELEASE TOXIC GASES. EXCESSIVE HEAT WILL CAUSE DECOMPOSITION AND THE RELEASE OF OXYGEN AND CHLORINE GAS.

##### HAZARDOUS POLYMERIZATION

WILL NOT OCCUR

#### SECTION VII – PRECAUTIONS FOR SAFE HANDLING

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED** – NOTE: USE EXTREME CAUTION IN HANDLING. DANGER: ALL SPILLS OF THIS PRODUCT SHOULD BE TREATED AS CONTAMINATED. CONTAMINATED PRODUCT MAY INITIATE A CHEMICAL REACTION, WHICH MAY SPONTANEOUSLY IGNITE ANY COMBUSTIBLE MATERIAL PRESENT, RESULTING IN A FIRE OF GREAT INTENSITY. IN CASE OF A SPILL, SEPARATE ALL SPILLED PRODUCT FROM PACKAGING, DEBRIS AND OTHER MATERIAL. USING A CLEAN BROOM OR SHOVEL, PLACE ALL SPILLED PRODUCT INTO PLASTIC BAGS, AND PLACE THOSE BAGS INTO A CLEAN, DRY DISPOSAL CONTAINER, PROPERLY MARKED AND LABELLED. DISPOSAL CONTAINERS MADE OF PLASTIC OR METAL ARE RECOMMENDED. DO NOT SEAL DISPOSAL CONTAINERS TIGHTLY. IMMEDIATELY REMOVE ALL PRODUCT IN DISPOSAL CONTAINERS TO AN ISOLATED AREA OUTDOORS. PLACE ALL DAMAGED PACKAGING MATERIAL IN A DISPOSAL CONTAINER OF WATER TO ASSURE DECONTAMINATION (I.E. REMOVAL OF ALL PRODUCT) BEFORE DISPOSAL. PLACE ALL UNDAMAGED PACKAGING IN A CLEAN, DRY CONTAINER PROPERLY MARKED AND LABELLED.

**WASTE DISPOSAL METHOD** – DISPOSE OF IN ACCORDANCE WITH THE CLEAN AIR ACT, CLEAN WATER ACT, THE RESOURCE CONSERVATION AND RECOVERY ACT, AS WELL AS ANY STATE, LOCAL, OR FEDERAL REGULATIONS FOR A HAZARDOUS WASTE.

#### SECTION VIII – CONTROL MEASURES

**RESPIRATORY PROTECTION** – IF DUST CONDITIONS ARE ENCOUNTERED, USE NIOSHA/MSHA APPROVED RESPIRATORS WITH ACID GAS CARTRIDGE AND DUST PREFILTER. THE RESPIRATOR USE LIMITATIONS MUST BE OBSERVED. RESPIRATORY PROTECTION PROGRAMS MUST BE IN ACCORDANCE WITH 29 CFR 1910.134.

##### PROTECTIVE GLOVES

WEAR NATURAL OR SYNTHETIC RUBBER GLOVES.

##### EYE PROTECTION

CHEMICAL SAFETY GOGGLES

**OTHER PROTECTIVE EQUIPMENT** – BOOTS, APRONS, OR CHEMICAL SUITS SHOULD BE USED TO PREVENT SKIN CONTACT. PERSONAL PROTECTIVE CLOTHING AND USE OF EQUIPMENT MUST BE IN ACCORDANCE WITH 29 CFR 1910.132 & 29 CFR 1910.133.

#### SECTION IX – SPECIAL PRECAUTIONS

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING** – DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING. KEEP IN ORIGINAL CONTAINER IN A COOL DRY PLACE. KEEP CONTAINER CLOSED WHEN NOT IN USE. KEEP AWAY FROM HEAT SOURCES, SPARKS, OPEN FLAMES AND LIGHTED TOBACCO PRODUCTS. USE ONLY A CLEAN DRY SCOOP MADE OF METAL OR PLASTIC EACH TIME THIS PRODUCT IS TAKEN FROM CONTAINER. DO NOT ADD THIS PRODUCT TO ANY DISPENSING DEVICE CONTAINING REMNANTS OF ANY OTHER PRODUCT, THIS MAY CAUSE VIOLENT REACTIONS OF FIRE OR EXPLOSION. ADD THIS PRODUCT ONLY TO WATER. IT MAY CAUSE FIRE OR EXPLOSION IF MIXED WITH MATERIALS SUCH AS OIL, KEROSENE, GASOLINE, PAINT PRODUCTS AND MOST OTHER ORGANIC MATERIALS. WASH HANDS AFTER HANDLING. STORE OUT OF REACH OF CHILDREN.

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