

Material Safety Data Sheet					
IDENTITY TWICE AS FRESH® DRY CHLORINE BLEACH					
Section I					
Manufacturer's Name Scientific Packaging Corp			Emergency Telephone Number (973) 676-3107		
Address 2-8 Central Avenue P.O. Box 1016 East Orange, NJ 07018-1016			Telephone Number for Information (973) 676-3107		
			Date Prepared January 21, 2003		
Section II – Hazardous Ingredients/Identity Information					
CAS #	Hazardous Components	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
497-19-8	Sodium Carbonate	Not Established	10 mg/m ³	Not Available	-
6834-92-0	Sodium Metasilicate	Not Established	Not Established	Not Available	-
51580-86-0	Sodium Dichloro-s-Triazinetrionedi-hydrate	Not Established	Not Established	Not Available	-
Section III – Physical/Chemical Characteristics					
Boiling Point	Not applicable	Specific Gravity (H ₂ O = 1)		Not applicable	
Vapor Pressure (mm Hg)	Not available	Melting Point		Not applicable	
Vapor Density (Air = 1)	Not available	Evaporation Rate (Butyl Acetate = 1)		Not applicable	
Density (lb/cu.ft)	50-60	pH (1% solution)		11-12	
Solubility in Water complete at recommended dosage					
Appearance and Odor white granular powder, lemon fragrance					
Section VI – Fire and Explosion Data					
Boiling Point (Method Used) Not applicable		Flammable Limits Not applicable		LEL Not applicable	UEL Not applicable
Extinguishing Media Use water spray, dry chemical, foam or carbon dioxide, as suitable for surrounding fire.					
Special Fire Fighting Procedures Wear self-contained breathing apparatus and protective clothing appropriate for fighting a typical chemical fire.					
Unusual Fire and Explosion Hazards Wet material may be corrosive and may release chlorine gas.					
Section V – Reactivity Data					
Stability Unstable Stable X		Conditions to Avoid Keep product away from heat and moisture. Moistened or wet material may release chlorine gas.			
Incompatibility (Materials to Avoid)		Strong acids and alkalis, organics			
Hazardous Decomposition or Byproducts		Wet material may be corrosive, and may release chlorine gas			
Hazardous Polymerization May Occur Will Not Occur X		Conditions to Avoid Not Applicable			
Section VI – Health Hazard Data					
Route(s) of Entry	Inhalation	Yes	Skin/Eye	Yes	Ingestion Yes

Health Hazard (<i>Acute and Chronic</i>)			
Acute – Inhalation may cause irritation to nose, throat and nasal passages. Ingestion may cause severe irritation to mouth, throat and stomach, and nausea. Contact with skin may cause reddening and irritation. Contact with eyes may cause severe irritation and irreversible damage.			
Chronic – Prolonged skin or eye contact may cause severe irritation and irreversible damage.			
Carcinogenicity	NTP Not Listed	IRAC Monographs Not Listed	OSHA Regulated Not Listed
Signs and Symptoms of Exposure			
Irritation to respiratory tract and system. Irritation to skin and eyes. Nausea.			
Medical Conditions Generally Aggravated by Exposure None known			
Emergency and First Aid Procedures			
Inhalation: Remove source of contamination or move victim to fresh air. Obtain medical attention if irritation continued.			
Skin contact: Remove contaminated clothing and footwear for cleaning. Wash contaminated skin gently and thoroughly with water for 20 minutes or until chemical is removed. Obtain medical advice if irritation persisted.			
Eye contact: Immediately flush contaminated eye(s) with lukewarm gently flowing water while holding eyelid open, for 20 minutes or until chemical is removed. Obtain medical attention quickly.			
Ingestion: Give victim sips of water or milk. Never give anything by mouth if victim is rapidly losing consciousness, unconscious or convulsing. Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Obtain medical attention immediately.			
Section VII – Precautions for Safe Handling and Use			
Steps to Be Taken in Case Material is Released or Spilled			
Stop spill at source and contain material. Do not wet spilled material. Collect dry material in plastic bag for disposal in accordance with local, state and federal regulations. For wetted material, see Waste Disposal Method.			
Waste Disposal Method			
Small amounts of material may be dissolved in water and flushed to appropriate (e.g. sanitary) sewer. Dispose of large amounts of properly contained contaminated material in accordance with local, state and federal regulations.			
Precaution to Be Taken in Handling and Storing			
Keep product in cool and dry conditions. Keep product away from eyes and skin contact, and clothing.			
Other Precautions			
Keep product away from heat, and contact with moisture, organics, strong acids and alkalis.			
Section VIII – Control Measures			
Respiratory Protection		None required under normal use conditions.	
Ventilation	Local Exhaust – None required with normal consumer use.		
	Mechanical (<i>General</i>) – Where necessary – e.g. industrial setting, use appropriate ventilation equipment/system to protect against dust during handling.		
	Special – None	Other – None	
Protective Gloves		Eye Protection	
None required with normal consumer use. Avoid product contact with skin.		None required with normal consumer use. Avoid dust generation with product when handling. Avoid product contact with eyes.	
Other Protective Clothing or Equipment			
None required with normal consumer use. Personal protective equipment may be required under heavy industrial dust conditions – see Work/Hygiene Practices.			
Work/Hygiene Practices – Observe general industrial hygiene practices –e.g. hand/skin washing and clothing change. Avoid generating and breathing dust when handling product. Avoid skin and eye contact with product. For protection in dust generating and/or skin and eye contact conditions, wear goggles, NIOSH approved respirator with organic vapor acid gas cartridge and dust/fume/mist filter, rubber/latex gloves and/or disposable suits.			

The information on this Material Safety Data Sheet is limited to the material identified and is believed by Scientific Packaging Corp., to be correct based on its knowledge and information as of the date of preparation. Scientific Packaging Corp. makes no representation, guarantee or warranty, expressed or implied, as to the accuracy, reliability or completeness of the information and assumes no responsibility for injury, damage or loss resulting from the use of the material.

MATERIAL SAFETY DATA SHEET

SECTION 1 – PRODUCT/MANUFACTURER'S IDENTITY

Product Name: Powdered Detergent/Disinfectant (Water Flakes®) Formula ID Number: SP30
 Synonyms: ST-794, ST-803 MSDS File Name: WF POWDERED DET DISINF
 Company: Stearns Packaging Corporation 4200 Sycamore Ave. (53714) PO Box 3216 Madison, WI 53704-0216
 Phone: 800-655-5008 DOT Hazard Class: None
 Fax: 608-246-5149 DOT Shipping Name: Disinfectant, NOI, powder.
 Website: www.stearnspkg.com NSF Certified: None
 Item 57100, Sub 3, Class 85

Concentrate		In Dilution	HAZARD RATING
1	Flammability	0	
2	Health	1	3 = High
0	Reactivity	0	2 = Moderate
None	Special Hazard	None	1 = Slight
			0 = Insignificant

Emergency Contact: CHEM-TEL, 800-255-3924

Abbreviation Key: N.A. = Not Applicable, N.D. = Not Determined

SECTION 2 – HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

CHEMICAL IDENTIFICATION	CAS NO.	HAZARD	OSHA PEL(ppm)	TLV(ppm)	%(Optional)
Sodium sulfate	7757-82-6				
Urea	57-13-6	Irritant	10 mg/m3 TWA		
Alkyl dimethyl benzyl ammonium chloride (C12-18)	68391-01-5	Corrosive			7.95%
Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride	85409-23-0	Corrosive			7.95%
Linear primary alcohol ethoxylate	68131-39-5	Irritant			
Sodium carbonate	497-19-8	Irritant			
Silicon dioxide	7631-86-9		6 mg/m3 TWA		

SARA Section 313 Title III Notification Required: No

SECTION 3 – PHYSICAL DATA

Appearance and Odor: Solubility in water: Complete Vapor Pressure (mm Hg): N.D. pH (Concentrate): N.A.
 White powder, Boiling Point: N.A. Vapor Density (Air=1): Estimated heavier than air pH (1% Solution): 9.0-10.0
 lemon scent Melting Point: N.A. Evaporation Rate: Estimated slower than ethyl ether Specific Gravity: N.A.

SECTION 4 – FIRE AND EXPLOSION HAZARD DATA

Flash Point and Method: > 200° F (> 93.9° C) Special Fire Fighting Procedures: Firefighters should wear full fire-fighting turn-out gear (full Bunker gear) including NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.
 Flammable Limits LEL: N.A. UEL: N.A. Unusual Fire & Explosion Hazards: None
 Extinguishing Media: Dry chemical, foam, carbon dioxide, water-fog

SECTION 5 – REACTIVITY DATA

Chemical Stability: Stable: Unstable: _____ Hazardous Polymerization: May Occur _____ Will Not Occur
 Conditions to Avoid: Freezing and extreme heat. Hazardous Decomposition or By-Products: Upon decomposition, this product may yield oxides of nitrogen and ammonia, carbon dioxide, carbon monoxide and other low molecular weight hydrocarbons.
 Incompatibility (Materials to Avoid): May react with oxidizing agents.

SECTION 6 – HEALTH HAZARD DATA/FIRST AID PROCEDURES

Health Hazards (Acute and Chronic): May be corrosive to the skin and eyes. May be harmful if swallowed. **Emergency and First Aid Procedures:**
 Signs and Symptoms of Exposure: Eyes: May be corrosive to eyes. Skin: May be corrosive to skin. Inhalation: Dusts of this product may cause irritation of the nose, throat, and respiratory tract. Ingestion: May be harmful if swallowed. May cause nausea, vomiting, and diarrhea. Eyes: Immediately flush eyes with water for at least 15 minutes while holding eyelids open. Get medical attention or advice.
 Medical Conditions Aggravated by Exposure: N.D. Skin: Immediately take off all contaminated clothing. For skin contact, flush with large amounts of water. If irritation persists, get medical attention. Wash contaminated clothing before reuse.
 Carcinogenicity: IARC Monographs? Yes _____ No Inhalation: If symptoms are experienced, remove source of contamination or move victim to fresh air. If symptoms persist, get medical attention. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Seek medical attention.
 NTP? Yes _____ No OSHA Regulated? Yes _____ No Ingestion: If swallowed, get immediate medical attention or advice. Do not induce vomiting.
 NOTE TO PHYSICIAN: If the product is ingested, probable mucosal damage may contraindicate the use of gastric lavage. Treat the affected person appropriately.

SECTION 7 – PREVENTATIVE AND CONTROL MEASURES

Engineering Controls: Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits. Steps to be Taken if Material is Spilled or Released: Wear appropriate personal protective equipment during cleanup. Cover powder spill with plastic sheet or tarp to minimize spreading. Use clean non-sparking tools to collect absorbed material. With clean shovel place material into clean, dry container; move containers from spill area. DO NOT GET WATER INSIDE CONTAINERS. Do not touch or walk through spilled material.
 Skin Protection: Work clothing sufficient to prevent all skin contact should be worn, such as coveralls and long sleeves. Use impervious gloves. Waste Disposal: Comply with all local, state and federal regulations. Consult your state DNR or the EPA for specific questions. Wastewater should never enter a fresh water body without treatment. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law.
 Eye/Face Protection: Wear chemical goggles and face shield. Handling and Storage: Avoid contact with skin and eyes. Avoid breathing dusts from this material. Wash thoroughly after handling. As with all chemicals, good industrial hygiene practices should be followed when handling this material. Keep the container tightly closed and in a cool, well-ventilated place. DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE OR DISPOSAL.
 Respiratory Protection: If exposure limits are exceeded or if irritation is experienced, NIOSH approved respiratory protection should be worn.
 Other Precautions: Eye wash fountain and emergency showers are recommended. Keep out of the reach of children.
 Disposal Instructions: Container disposal-Do not reuse empty container. Triple rinse empty container with water. Plastic containers may be disposed of in a sanitary landfill, incinerated, or if allowed by local authorities, by burning. If burned, stay out of smoke. Offer for recycling if available.

SECTION 8 – OTHER REGULATORY INFORMATION

Toxicological Information: Sodium sulfate 7757-28-6 Oral LD50: Mouse 5989 mg/kg
 Urea 57-13-6: Oral LD50: Rat 8471 mg/kg, Mouse 11 g/kg
 Sodium carbonate 497-19-8: Inhalation LC50: Rat 2300 mg/m3/2H, Mouse 1200 mg/m3/2H;
 Oral LD50: Rat 4090 mg/kg, Mouse 6600 mg/kg

Ecotoxicity: Toxic to fish

There is no calculable reportable quantity (RQ) for this product.

This product is considered a pesticide and is therefore excluded from the United States TSCA Regulations.

This MSDS data relates only to the material designated and does not relate to its use with any other material or process. The data is believed to be accurate. However, since use conditions vary and are outside our control, Stearns Packaging Corporation makes no warranties, expressed or implied, and assumes no liability for failure to follow directions and safety precautions.

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