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The Procter & Gamble Company
P&G Household Care
Fabric & Home Care Innovation Center
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Cincinnati, OH 45217-1087

# MATERIAL SAFETY DATA SHEET

MSDS #: **FH/A/2006/KMKL-6SYPYY** Issue Date: 9/12/06 Supersedes: **FH/A/2006/YWYR-6R2SPA** Issue Date: 7/25/06

**SECTION I - CHEMICAL PRODUCT** 

Identity: Automatic Dishwashing Detergent Finished Product

Brands: CASCADE 2 IN 1 ACTIONPACS

P&G Telephone Number: 1-800-844-2544

or call Local Poison Control Center or your physician

## **SECTION II - COMPOSITION AND INGREDIENTS**

Complex sodium phosphates and sodium carbonate, oxygen bleaching system, enzymes, nonionic wetting agents, sodium silicate, binding agents, dyes, perfume., water soluble film.

Hazardous Ingredients as defined by OSHA, 29 CFR 1910.1200.

Chemical Name	Common Name	CAS No.	Composition	<u>LD50</u>
			<u>Range</u>	
Carbonic Acid,	Sodium Carbonate	497-19-8	15-40%	1.9 g/kg (rats, oral)
Disodium Salt	(Soda ash)			
Carbonic Acid	Sodium Percarbonate	15630-89-4	10-30%	~1 g/kg (rats, oral)
Disodium Salt,				
Compound w/				
Hydrogen Peroxide				
Silicic acid, sodium salt	Sodium Silicate	1344-09-8	3-7%	~1.8 g/kg (rats, oral)

## **SECTION III - HAZARDS IDENTIFICATION**

Potential Health Hazards (Acute and Chronic): (See Section 11 for more information)

Ingestion: Harmful if swallowed.

Eye Contact: If a pouch breaks, contact with its content may cause moderate irritation. Skin Contact: If a pouch breaks, contact with its content may cause mild irritation. Inhalation: If pouches are broken, inhaled powder can cause mild respiratory irritation

Signs and Symptoms of Exposure:

Ingestion: Ingestion may result in lodging causing moderate to severe upper gastrointestinal irritation, burning, discomfort which may impede a person's ability to speak or swallow.

Eye Contact: If a pouch breaks, contact with its content may cause moderate irritation.

Skin Contact: If a pouch breaks, contact with its content may cause mild irritation.

Inhalation: None expected. If pouches broken, inhaled powder may cause mild respiratory irritation-

Medical Conditions Generally Known to be Aggravated by Exposure: None

**Potential Environmental Effects:** (See Section 12 for more information)

#### SECTION IV - FIRST AID INFORMATION

#### **First Aid Procedures**:

Ingestion: If swallowed, do NOT induce vomiting. Give a glassful of milk or water and call a poison control centre or physician immediately.

Eye Contact: Flush eyes with water for 15 minutes.

Skin Contact: Rinse exposed area with water.

Inhalation: Leave dusty area.

Note to Physician: (if applicable)

Other: Consumer product package has the following precautionary statement: CAUTION: IRRITANT. HARMFUL IF SWALLOWED OR PUT IN MOUTH. MAY IRRITATE EYES OR SKIN, KEEP OUT OF REACH OF CHILDREN. CAUTION: Do not get in eyes. Do not get on skin or clothing. KEEP OUT OF REACH OF CHILDREN. Do not let children touch product in dishwasher. After placing pouch in dispenser cup, close immediately. Do not puncture pouch. FIRST AID TREATMENT: Contains sodium carbonate, sodium silicate and enzymes. If swallowed, give a glassful of water or milk and call a Poison Control Center or doctor immediately. Do not induce vomiting. If in eyes, rinse with water for 15 minutes. If on skin, rinse well with water.

# **SECTION V - FIRE FIGHTING INFORMATION**

Flammable Properties: Liquid part not flammable or combustible.

## **Extinguishing Media:**

Suitable: CO2, water or dry chemical may be used.

Unsuitable: N/K

## **Protection of Firefighters:**

Specific Hazards Arising from the Material: Not known.

Protective Equipment and Precautions for Firefighters: Normal fire-fighting gear.

#### SECTION VI - ACCIDENTAL RELEASE MEASURES

**Personal Precautions: :** If pouches are broken and powder is released (e.g., package damage incident), recommendation is to wear gloves and goggles for chemical handling/cleanup, and dust masks if considerable dust is airborne.

**Environmental Precautions:** DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH ALL FEDERAL, STATE/PROVINCIAL AND LOCAL REGULATIONS. Household solutions may be disposed of in sewer. Dry product may be landfilled if acceptable to local landfill.

Methods for Containment: N/K

Methods for Cleanup: Minimize dust levels while collecting product (see "inhalation" health effects). Dispose of

according to local regulations.

Other Information: (if applicable)

## SECTION VII - HANDLING AND STORAGE

Precautions To Be Taken in Handling: Keep product dry.

**Precautions To B e Taken in Storage:** Store in a cool, dry ventilated area. Keep product dry.

# SECTION VIII - EXPOSURE CONTROLS, PERSONAL PROTECTION

**Exposure Guidelines:** N/A **Engineering Controls:** N/A

**Personal Protective Equipment (PPE):** 

Eye/Face Protection: If pouches are broken and powder is released to the air, use chemical goggles.

Skin Protection: Protective gloves (rubber, neoprene) should be used for prolonged direct contact.

Respiratory Protection: If pouches are broken and powder is released (e.g., package damage incident),

recommendation is to wear a dust mask for handling/cleanup.

# SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

**Appearance (color, physical form, shape):** Clear **Flash Point (Method Used)**: > 300°F./149°C. (liquid pouch with a color liquid top and granular bottom with part)

speckles.

Odor: Product is perfumed. Explosive Limits: LEL:N/A UEL: N/A

Odor Threshold: N/A

Physical State: Solid at 20°C/68°F.

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Decomposition Temperature: N/A

Physical State: N/A

Evaporation Rate (nBuOAc=1): N/A

Vapor Density (Air=1):N/ASpecific Gravity/Density:0.91Boiling Point:N/AMelting/Freezing Point:N/A

Partition Coefficient (n-octanol/water): N/A pH (1 % solution): 10.8

**Solubility in Water**: Nearly 100% at 20°C/68°F. **Reserve Alkalinity:** 13.5 at pH 9.5

## **SECTION X - STABILITY AND REACTIVITY**

**Chemical Stability:** N/K

**Conditions to Avoid:** N/K

**Incompatible Materials:** N/K

Hazardous Decomposition Products: None known

Possibility of Hazardous Reactions: None known

## **SECTION XI - TOXICOLOGICAL INFORMATION**

Information on individual components indicates that if the pouch breaks, airborne dust from the dry material may cause slight respiratory irritation if inhaled, and, direct contact with contents, may cause moderate eye and mild skin irritation.

# **SECTION XII - ECOLOGICAL INFORMATION**

This product is safe for septic tank system and would not pose an ecological threat unless high amounts were released in to the environment.

## **SECTION XIII - DISPOSAL CONSIDERATIONS**

**Waste Disposal Method**: DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH FEDERAL, STATE/PROVINCIAL AND LOCAL REGULATIONS.

#### SECTION XIV - TRANSPORT INFORMATION

Ground Transport (DOT): The finished, packaged product is not regulated under DOT.

Air Transport (IATA): The finished, packaged product is not regulated under IATA.

Marine/Water Transport (IMDG): The finished, packaged product is not regulated under IMDG.

# SECTION XV - ADDITIONAL REGULATORY INFORMATION

All intentionally-added components of this product are listed on the US TSCA Inventory.

This product is not subject to warning labeling under California Proposition 65.

Product is in compliance with state laws. The following chemical is listed on state right-to-know lists:

Sodium Tripolyphosphate (CAS# 7758-29-4) CA, CT, IL, LA, MA, NJ, NY, PA

Termamyl (CAS# 9000-90-2) NJ

FN3 (CAS# 9014-01-1) CA, NC

Sodium Percarbonate (CAS# 15630-89-4) NJ

**Zinc Carbonate AC** (CAS# 3486-35-9 and 1314-13-2) is a component of the PAAN Co Flake. Zinc is listed on the following state right to know lists: CA, CT, IL, IN, KY, LA, MA, MI, NJ, NY, NC, PA, RI

Dipropylene Glycol (CAS# 25265-71-8) CA, PA

Glycerine (CAS#56-81-5) CA, IL, IN, KY, MA, MN, NC, PA, RI

Procter & Gamble's importation of this product into Canada is in compliance with all CEPA NSN Regulations. This product has been classified with Hazard Criteria of the Canadian Control Products Regulation (CPR) and this MSDS contains all information required by the Controlled Products Regulation.

	SECTION XVI	OTHER INFORMATION	
DOCH ID ( O( )			A EXTENDED AT
P&G Hazard Rating: 2 (eye)	Health:	2 (eye)	4=EXTREME
	Flammability:	1	3=HIGH
	Reactivity:	0	2=MODERATE
			1=SLIGHT
			0=NOT SIGNIFICANT
*N/A Not Applicable	ψ <b>λ</b> Ι/ΙΖ	Not Known	

\*N/A. - Not Applicable \*N/K. - Not Known

Data supplied is for use only in connection with occupational safety and health.

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