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## MATERIAL SAFETY DATA SHEET

**PRODUCT NAME:** LAUNDRY DETERGENT with SAFE BLEACH & ENZYMES  
**PRODUCT CODE:** PRO•534C PRO•541C

### 1. PRODUCT INFORMATION

SUPPLIER: As above  
PRODUCT USE: Laundry Detergent with Safe Bleach & Enzymes  
CHEMICAL IDENTITY: Mixture  
CAS No. and NAME: Not applicable  
FORMULA and M.Wt.: Not applicable  
EMERGENCY PHONE NO.: 613-996-6666 CANUTEC (COLLECT)

### 2. HAZARDOUS INGREDIENTS

<u>CHEMICAL IDENTITY</u>	<u>CAS#</u>	<u>CONC.(W/W)</u>	<u>TOXICITY</u>
Sodium Alkyl Benzene Sulphonate	68081-92-0	10 - 30%	LD <sub>50</sub> oral rat = 1260 mg/kg
Sodium Metasilicate	6834-92-0	1 - 5%	LD <sub>50</sub> oral rat = 1280 mg/kg
Sodium Carbonate	497-19-8	15 - 40%	LD <sub>50</sub> oral rat = 2800 mg/kg
Sodium Carbonate Peroxhydrate	15630-89-4	10 - 30%	LD <sub>50</sub> oral rat = 2000 mg/kg

### 3. PHYSICAL DATA

PHYSICAL STATE: Powder  
APPEARANCE AND ODOUR: White powder, lemon scent, packaged in water soluble pouches  
ODOUR THRESHOLD: Not available  
SPECIFIC GRAVITY: Not applicable  
VAPOUR PRESSURE: Not applicable  
VAPOUR DENSITY: Not applicable  
EVAPORATION RATE: Not applicable

BOILING POINT: Not applicable  
FREEZING POINT: Not applicable  
pH: 1% Solution: 9.0  
DENSITY (g/ml): 0.79  
WATER SOLUBILITY: Complete

### 4. FIRE OR EXPLOSION HAZARDS

CONDITIONS OF FLAMMABILITY: Oxygen evolution as a result of decomposition may burst containers and accelerate the burning rate of other combustible materials.  
MEANS OF EXTINCTION: Water, alcohol foam, dry chemical.  
FLASHPOINT AND METHOD OF DETERMINATION: Not applicable  
UPPER FLAMMABLE LIMIT: Not applicable  
LOWER FLAMMABLE LIMIT: Not applicable  
AUTO-IGNITION TEMPERATURE: Not applicable  
HAZARDOUS COMBUSTION PRODUCTS: Oxides of carbon, sulphur dioxide, oxides of nitrogen, decomposition releases oxygen.  
EXPLOSION DATA - SENSITIVITY TO MECHANICAL IMPACT: No Data  
EXPLOSION DATA - SENSITIVITY TO STATIC DISCHARGE: No Data

### 5. REACTIVITY DATA

CHEMICAL STABILITY: Stable  
INCOMPATIBLE SUBSTANCES: Strong acids, strong oxidizing agents.  
CONDITIONS OF REACTIVITY: Prolonged contact with aluminum, copper, tin, lead or zinc may liberate flammable hydrogen gas.  
HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon, sulphur dioxide, oxides of nitrogen, decomposition releases oxygen.

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**6. TOXICOLOGICAL PROPERTIES:**

EFFECTS OF ACUTE EXPOSURE: Product is sold in water soluble pouches. Direct contact with powder is unlikely under normal use conditions. However, under unusual or upset conditions:

- EYE CONTACT: Irritant, prolonged contact may cause permanent eye injury.
- SKIN CONTACT: May cause drying of the skin, irritation.
- INHALATION: Dust may cause irritation – unlikely to occur due to packaging. Some sensitive individuals may develop allergic type reactions to enzymes.
- INGESTION: May cause nausea, vomiting, diarrhea and abdominal pain.

EFFECTS OF CHRONIC EXPOSURE: No data but expected similar to acute.

EXPOSURE LIMITS: Not established.

IRRITANCY OF PRODUCT: Eye and skin irritant.

SENSITIZATION TO MATERIAL: Information not available

CARCINOGENICITY: Not listed as a carcinogen by IARC, ACGIH or NTP.

REPRODUCTIVE TOXICITY: No information is available and no adverse effects are expected.

TERATOGENICITY: No information is available and no adverse effects are expected.

MUTAGENICITY: No information is available and no adverse effects are expected.

TOXICOLOGICALLY SYNERGISTIC PRODUCTS: Not known to have synergistic effects.

**7. PREVENTIVE MEASURES**

PERSONAL PROTECTIVE EQUIPMENT: Protective eye wear if contact likely to occur.

ENGINEERING CONTROLS: Normal ventilation adequate.

HANDLING PROCEDURE and EQUIPMENT: Do not store near incompatible substances.

STORAGE REQUIREMENTS: Store in a cool, dry area.

SPECIAL SHIPPING INFORMATION: Not regulated by TDG.

PROCEDURES FOR HANDLING LEAKS OR SPILLS: Stop leak at source, sweep up and remove.

WASTE DISPOSAL: Dispose of waste at an approved waste disposal facility (incineration is suitable) in accordance with applicable local, provincial or federal regulations.

**8. FIRST AID MEASURES:**

Direct contact with powder is unlikely under normal use conditions. However, under unusual or upset conditions:

EYES: Wash with large amounts of water.

SKIN: Immediately flush with large amounts of running water, lifting eyelids. Seek medical attention.

INGESTION: Do not induce vomiting. Give large amounts of water to dilute. Seek medical attention.

Date: December 2014

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