

MATERIAL SAFETY DATA SHEET**SECTION I - PRODUCT IDENTIFICATION AND USE**

Product Name JAVEX LIQUID BLEACH -REGULAR **Product Use** Bleach **WhmIs Classification:** NCP
Supplier's Name Colgate Palmolive-Canada Inc. **Address:** 99 Vanderhoof Avenue, Toronto, Ontario M4G 2H6
Telephone No.: (416) 421-6000 **After Hours Emergency Contacts:** Check your local Poison Control Centre in your telephone white pages.

SECTION II - PREPARATION OF MSDS

PREPARED BY: Technical Services **PHONE:** (416) 421-6000 **DATE:** February 1, 2004

N/A = Not Applicable; N/E = Not Established/Available

SECTION III - HAZARDOUS INGREDIENTS

Hazardous Ingredient	Concentration Range %	C.A.S. or U.N. Number	Exposure Limits	LD ₅₀ /LC ₅₀ Specify Species and Route
Sodium Hypochlorite	5 to 10	7681-52-9	N/E	N/E

SECTION IV - PHYSICAL DATA

Physical State Liquid	Odour and Appearance Lime yellow liquid; various scents with a faint chlorine bleach odour	Odour Threshold 1000 ppm	Specific Gravity 1.084 (20°/20° C)	Vapour Pressure 25 mm Hg at 20° C
Vapour Density N/E	Evaporation Rate N/E	Boiling Point 102° C	Freezing Point -3° C to -8° C	pH 12.5 Min.
			Coefficient of Water/Oil Distribution N/E	

SECTION V - FIRE OR EXPLOSION HAZARD

Flammable: Yes () No (X) **If yes, under which conditions:**

Means of Extinction: If involved in fire, use water, dry alcohol type or all purpose foam, dry chemical, carbon dioxide or other Class B extinguishing agents.

Special Procedures Avoid fumes from spilled or exposed liquid, dilute copiously and ventilate. Acid contamination will produce very irritating fumes similar to chlorine gas. Bleach decomposes when heated; decomposition products may cause containers to rupture or explode. Vigorous reaction possible with organic materials or oxidizing agents; may result in a fire. Full protective equipment, including pressure demand self-contained breathing apparatus and turnout equipment should be worn by firefighters and others exposed to combustion by-products.

Flashpoint and Method N/A	Upper Flammable Limit N/E	Lower Flammable Limit N/E	Auto-ignition Temperature N/E
-------------------------------------	-------------------------------------	-------------------------------------	---

Hazardous Combustion Products: N/E

Explosion Data Sensitivity To Mechanical Impact N/E **Explosion Data Sensitivity To Static Charge** N/E

SECTION VI - REACTIVITY DATA

Chemical Instability: Yes (X) No () **If yes, under which conditions?** The product will lose about 10% of total activity per month at room temperature and pressure. Higher temperatures will accelerate decomposition. Oxygen gas is released.

Incompatibility To Other Substances: Yes (X) No () **If yes, which ones?** Heavy metals, reducing agents, acids, ammonia, glycols, alcohols and most other solvents or materials.

Reactivity: Yes (X) No () **If yes, under which conditions?** Higher temperatures cause faster decomposition and liberation of oxygen gas. Metallic contamination will also cause decomposition and liberation of oxygen. Contamination with organics will result in foul odours and decomposition. Contamination with ammonia will liberate dangerous fumes.

Hazardous Decomposition Products: None under normal storage and use. However chlorine gas shall be released if product is acidified with acids or acidic materials.

MATERIAL SAFETY DATA SHEET

Product Name JAVEX LIQUID BLEACH - REGULAR, FRESH SCENT AND LEMON

SECTION VII - TOXICOLOGICAL PROPERTIES OF PRODUCT

Routes of Entry: Skin Contact X Skin Absorption Eye Contact X Inhalation X Ingestion X

Effects of Acute Exposure To Product:

Skin Contact:	Moderate irritant	Skin Absorption:	N/E
Ingestion:	Slightly toxic. Inflammation of mouth, pharynx, esophagus and stomach, erosion of mucous membranes, hemorrhage and possibly coma may occur.	Inhalation:	Inhalation can be irritating to mucous membranes. Inhalation of free chlorine products produces irritation of nose and throat and coughing, corrosive to tissue, may cause pulmonary edema or shock.
Eye Contact:	Extremely corrosive		

Effects of Chronic Exposure To Product: N/E

LD₅₀ of Product (Specify Species and Route) 14.9 g/Kg (oral, rat) **LC₅₀ of Product (Specify Species)** N/A

Exposure Limits	Irritancy of Product	Sensitization of Product	Carcinogenicity
N/E	N/E	N/E	N/E

Reproductive Toxicity	Teratogenicity	Mutagenicity	Synergistic Materials
N/E	N/E	N/E	N/E

SECTION VIII - PREVENTATIVE MEASURES

Personal Protective Equipment: Rubber or Plastic Gloves, Goggles or Shield, Plastic apron preferred, rubber boots when handling spills

Engineering Controls: It is preferred but not mandatory to ventilate storage tanks to outside. Safety Showers and Eyewash Fountains should be available.

Leak and Spill Procedures: Leaking product must be transferred to another suitable container. Dilute spilled product with water and add sodium bisulphite or sulphite. Flush to sewer. Do NOT use combustible material; e.g., sawdust.

Waste Disposal: Dispose in accordance with Federal, Provincial and Local regulations.

Handling Procedures and Equipment: Avoid contact when handling.

Storage Requirements: Use polyethylene, polypropylene, PVC, or FRP containers. Store at -10° C to 30° C and away from sunlight.

Special Shipping Instruction: Ensure transportation system is sound. Make sure connection hoses are not worn. Do not drop small containers.

SECTION IX - TRANSPORTATION OF DANGEROUS GOODS

TDG Regulated Product: Yes () No (X) **Product TDG or CFR 49 Shipping Name** N/A
(If CFR so indicate)

PIN Number: N/A **Packaging Group** N/A

SECTION X - FIRST AID MEASURES

Skin: Flush skin with water for 15 minutes. If irritation persists, call a physician.

Eye: Flush the contaminated eye(s) for at least 15 minutes with lukewarm water, holding the eyelid open. Take care not to rinse contaminated water into the non-affected eye. Always seek medical attention for eye injuries.

Inhalation: Remove to fresh air. Call a physician.

Ingestion: If swallowed drink 3 - 4 glasses of water. DO NOT USE BAKING SODA OR ACIDIC ANTIDOTES. Call a physician.
These products are labeled in accordance with the requirements of the Hazardous Products Act and/or the Pest Control Products Act in that the use pattern and exposure in the workplace is generally consistent with that experienced by consumers. In certain respects, the requirements of the Workplace Hazardous Materials Information System applicable to the drafting of this Material Safety Data Sheet may differ from the requirements of those acts and regulations and as a result, this MSDS may contain additional information to that found on the labels.

Because we cannot anticipate or control the many different conditions under which this information and our products may be used, we do not guarantee the applicability of this information or the suitability of our products in any given situation. Users of our products should make their own tests to determine the safety and suitability of each such product for their particular purposes.