

MATERIAL SAFETY DATA SHEET
SECTION I – MATERIAL IDENTIFICATION AND USE

MATERIAL NAME: Q 1000

MANUFACTURERS NAME:

CP INDUSTRIES LTD.
225 BLACK STREET
FERGUS, ONTARIO N1M 1A5

EMERGENCY TELEPHONE NUMBER: (613) 996-6666

Non-Office Hours, Weekends, or Holidays – (CANUTEC) Call Collect

SUPPLIERS NAME:

QUALITY CHEMICALS MFG.
215 DOLOMITE DRIVE
DOWNSVIEW, ONTARIO M3J 2N1

EMERGENCY TELEPHONE NUMBER: (613) 996-6666

Non-Office Hours, Weekends, or Holidays – (CANUTEC) Call Collect

CHEMICAL NAME

Sodium Hypochlorite Solution

MOLECULAR WEIGHT

Not Applicable

CHEMICAL FAMILY

Chlorinated Alkali

TRADE NAME AND SYNONYMS

Various

CHEMICAL FORMULA

Not Applicable

MATERIAL USE

Sanitizing/Bleaching

WHMIS CLASS

E D2B

SECTION II – HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS INGREDIENTS	APPROXIMATE CONCENTRATION %	C.A.S.N.A.	“EXPOSURE LIMITS”	LD50/LC50 SPECIFY SPECIES & ROUTE
Sodium Hypochlorite 12 % Solution	60 – 100	7681-52-9	STEL (ACGIH) 1 ppm for chlorine	LD50 4445 mg/kg (oral/rat)

SECTION III – PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE

GAS LIQUID X SOLID

VAPOUR PRESSURE (mm)

17.5 mm Hg at 20°C

FREEZING POINT (°C)

-25°C

ODOUR AND APPEARANCE

Yellow liquid with characteristic odour

VAPOUR DENSITY (Air=1)

Not Available

SOLUBILITY IN WATER

Complete

ODOUR THRESHOLD

Not Available

EVAPORATION RATE

Not Available

% VOLATILE (by volume)

85%

SPECIFIC GRAVITY

1.18

BOILING POINT (°C)

105°C

pH

12.0

COEFFICIENT OF WATER/OIL DISTRIBUTION: Not Available

SECTION IV – FIRE AND EXPLOSION DATA

FLAMMABILITY

YES NO X

IF YES, UNDER WHAT CONDITIONS

MEANS OF EXTINCTION: Water, dry chemical, carbon dioxide, foam

SPECIAL PROCEDURES: Fire fighters should wear self-contained breathing apparatus and full protective clothing.

FLASHPOINT (°C) AND METHOD: Not Applicable **AUTO IGNITION TEMPERATURE (°C):** Not Applicable

UPPER EXPLOSION LIMIT (% BY VOLUME): Not Applicable

LOWER EXPLOSION LIMIT (% BY VOLUME): Not Applicable

HAZARDOUS COMBUSTION PRODUCTS: Chlorine gas

EXPLOSION DATA SENSITIVITY TO MECHANICAL IMPACT: Not Applicable

RATE OF BURNING

Not Applicable

EXPLOSIVE POWER

Not Applicable

SENSITIVITY TO STATIC DISCHARGE

Not Applicable

SECTION V – REACTIVITY DATA

CHEMICAL STABILITY

YES NO X

IF NO, UNDER WHAT CONDITIONS?

Decomposes slowly. Do not expose to temperatures above 40°C (104°F), sunlight or metals.

INCOMPATIBILITY TO OTHER SUBSTANCES

YES X NO

IF SO, WHICH ONES?

Urea, ammonia, acids, reducing agents, oxidizable materials, organic matter, heavy metals.

REACTIVITY AND UNDER WHAT CONDITIONS:

High temperatures will cause faster decomposition and liberation of chlorine gas. Metallic contamination will also cause liberation of oxygen gas. Contamination with ammonia and urea will liberate nitrogen gas and chloramines. Contact with oxidizable materials produces heat which may generate chlorine gas.

HAZARDOUS DECOMPOSITION PRODUCTS:

See above.

MATERIAL NAME: Q 1000

SECTION VI – TOXICOLOGICAL PROPERTIES OF PRODUCT

ROUTE OF ENTRY

SKIN CONTACT:	X	SKIN ABSORPTION:		EYE CONTACT:	X
INHALATION ACUTE:	X	INHALATION CHRONIC:	X	INGESTION:	X

EFFECTS OF ACUTE EXPOSURE TO PRODUCT

EYE: CORROSIVE. May cause permanent damage if not treated promptly.
SKIN: CORROSIVE. May cause irritation. May cause permanent damage if not treated promptly.
INHALATION: Breathing mist, spray or vapour may cause severe irritation of the respiratory tract.
INGESTION: CORROSIVE. May cause severe irritation to digestive tract. May lead to convulsion, coma or death.

EFFECTS OF CHRONIC EXPOSURE TO PRODUCT: None Known

LD50 OF PRODUCT (SPECIFY SPECIES & ROUTE)	IRRITANCY OF PRODUCT	EXPOSURE LIMITS OF PRODUCT
Not Available	Moderate	Not Available
LC50 OF PRODUCT (SPECIFY SPECIES)	SENSITIZATION TO PRODUCT	SYNERGISTIC MATERIALS
Not Available	Not Available	Not Applicable
CARCINOGENICITY	REPRODUCTIVE EFFECTS	TERATOGENICITY
Not Established	Not Available	Not Available
		MUTAGENICITY
		Not Available

SECTION VII – PREVENTATIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT

GLOVES	RESPIRATORY (SPECIFY)	EYE (SPECIFY)
Rubber	As required	Chemical Goggles

FOOTWEAR (SPECIFY)	CLOTHING (SPECIFY)	OTHER (SPECIFY)
Rubber	Cover Skin	Impermeable Apron

ENGINEERING CONTROLS (E.G. VENTILATION, ENCLOSED PROCESS, (SPECIFY): Local mechanical exhaust.

LEAK AND SPILL PROCEDURE: Contain the spill. Do not allow spilled product to go to drain. Neutralize with sodium sulphite, sodium bisulphite or dilute hydrogen peroxide. Mop up or soak up with absorbent clay for disposal. Flush spill area with large volumes of water.

WASTE DISPOSAL: Dispose of according to local, provincial, and federal regulations.

HANDLING PROCEDURES & EQUIPMENT: Avoid contact with skin, eyes, and clothing. Avoid contact with combustibles and metals.

STORAGE REQUIREMENTS: Store in a cool, dry, well-ventilated place in a closed container.

SPECIAL SHIPPING INFORMATION: Not Applicable.

SECTION VIII – FIRST AID PROCEDURES

SKIN: Wash with soap and water. If irritation persists, seek medical attention.
EYE: Immediately flush eyes with water for at least 15 minutes. Seek medical attention immediately.
INHALATION: Remove patient to fresh air. If breathing difficulty appears, seek medical attention.
INGESTION: DO NOT induce vomiting. Give lots of water or milk. Do not give anything by mouth to an unconscious patient. Seek medical attention immediately.
GENERAL ADVICE: Safety shower and eye wash should be readily available.

SECTION IX – PREPARATION DATE OF MSDS

ADDITIONAL INFORMATION/COMMENTS: None

SOURCES USED: Supplier MSDS

PREPARED BY: CP INDUSTRIES LTD. **PHONE NUMBER:** (519) 843-6300 **DATE:** March 24, 2004