



MATERIAL SAFETY DATA SHEET

This Material Safety Data Sheet complies with the Canadian Controlled Products Act

****NOTE: THE FOLLOWING INFORMATION PROVIDED IS FOR THE PRODUCT CONCENTRATE ONLY, NOT FOR USE-DILUTIONS****

SECTION 1 – PRODUCT IDENTIFICATION					
PRODUCT IDENTIFIER:		Industrial Bleach		DIN #02265729	
PRODUCT USE:		Water Treatment, Bleaching Agent, Disinfectant			
SUPPLIER:		Velocity Chemicals Ltd. Unit #1, 9515- 190 th St., Surrey, B.C. V4N-3S1 Emergency Telephone: (604) 881-4700 Facsimile: (604) 881-4701		In case of transportation emergency or product spill, contact: In Canada- CANUTEC @ 613-996-6666 (24 hrs.)	
SECTION 2 – HAZARDOUS INGREDIENTS					
HAZARDOUS INGREDIENTS	% (W/W)	CAS NUMBER	LD50	LC50	EXPOSURE LIMITS
Sodium Hypochlorite	10-13	7681-52-9	8910 mg/kg (oral,rat) 10000 mg/kg skin,rabbit)	>10000 mg/m3 (inhal.,1 hr., rat)	ACGIH (TLV)=1ppm (STEL) as chlorine, 0.5ppm (TWA) as chlorine
SECTION 3 – PHYSICAL DATA					
Physical state: liquid Solubility: soluble Odour and Appearance: clear, green-yellow and strong chlorine odor pH (100%) @ 20°C: 11.5-13.0 Specific Gravity @ 20°C: 1.165 Odour Threshold (ppm): not established			Vapour Density: not determined Vapour Pressure: 17.5 mmHg Evaporation Rate: not determined Boiling Point (°C): Decomposes @ 40°C Freezing Point (°C): -25°C/-12°F Coefficient of water/oil distribution: Greater than 1		
SECTION 4 – FIRE AND EXPLOSION DATA					

Flammability: No, product is non-flammable. If yes, under what condition: Not applicable. Means of Extinction: Dry chemical, alcohol foam, CO ₂ , water spray. The product is not flammable. Use extinguishing media suitable for surrounding fires. Special Fire Fighting Procedures: Wear NIOSH/OSHA approved, self contained breathing apparatus for fire fighting situations. Use water spray to cool all nearby fire exposed surfaces. Explosion Data- Sensitivity to impact: None Sensitivity to static discharge: None	Flash Point (°C) and method: not applicable Upper Flammable limit (% volume): not applicable Lower Flammable limit (% volume): not applicable Autoignition temperature (°C): not applicable Hazardous combustion products: will liberate toxic, corrosive chlorine gas
---	---

Industrial Bleach

SECTION 5 – REACTIVITY DATA

Chemical Stability: yes, stable under normal storage conditions
If no, under what conditions:
Incompatibility with other substances: yes
If so, under what conditions: strong acids, strong oxidizers and reducing agents, ammonia, nitrogen compounds(i.e. urea & amines), oxidizable materials and metals. Some metals such copper, nickel, manganese, iron and its alloys will accelerate product decomposition.
Reactivity, and under what conditions: none known
Hazardous Decomposition Products: liberates toxic, corrosive fumes of chlorine upon thermal decomposition.

SECTION 6 – TOXICOLOGICAL PROPERTIES

Primary route of entry: skin and eye contact, inhalation
Effects of Acute Exposure to Product: Product exposure can cause severe irritation or burns to skin and eyes. Inhaling mist or vapors can cause immediate irritation or burns to respiratory system.
Effects of Chronic Exposure to Product: Prolonged exposure may cause skin dermatitis and respiratory disorder.

Exposure Limits: see Section 2 under Hazardous Ingredients
Irritancy of Product: corrosive to skin, eyes and respiratory system.
Sensitization: none known
Reproductive Toxicity: none known

Mutagenicity: none known
Carcinogenicity: none known
Teratogenicity: none known
Synergistic Products: none known

SECTION 7 – PREVENTATIVE MEASURES

Respiratory Protection: Use a NIOSH/OSHA approved for alkaline mist/dust and chlorine cartridge respirator if mists or vapors are present.
Gloves: butyl or natural rubber
Eye Protection: splash proof chemical goggles or face shield

Footwear: rubber shoes
Clothing: long sleeve coveralls
Other: rubber apron

Engineering Controls: General ventilation for normal operating conditions or local exhaust for confined areas.

Leak and Spill Procedures: Wear protective equipment. Contain spill. Prevent runoff to drains or sewers. Recover material by pumping into a suitable waste container. Reuse material if possible, or otherwise dispose in accordance with local regulations.

Waste Disposal: Dispose of in accordance with local environmental regulations.

Handling Procedures and Equipment: Use good hygiene practices. Avoid contact with eyes, on skin and clothing. Avoid inhaling mists/vapors. Safety shower and eye wash station should be available in the immediate work area.

Storage Requirements: Store in a cool, dry place away from incompatibles. Do not mix with any other chemicals. Keep container closed when not in use. Keep from freezing and temperatures below 30°C.

Industrial Bleach

SECTION 7 – PREVENTATIVE MEASURES (Cont.)

Special Shipping Information:

WHMIS Classification: E

TDG Classification: Hypochlorite Solution, Class 8, UN1791, P.G. III

SECTION 8 – FIRST AID MEASURES

Inhalation: Remove victim to fresh air, apply artificial respiration if necessary. Seek medical help.
Ingestion: Give large amounts of water if conscious. Do not induce vomiting. Get medical help immediately.
Skin Contact: Wash thoroughly with water for 15 minutes. If irritation persist, seek medical attention.
Eye Contact: Flush immediately with water for 15-20 minutes. Seek medical help.

SECTION 9 - OTHER INFORMATION

REVISIONS: October 15, 2010

SUPERCEDES: December 14, 2007

PREPARED BY: Technical Department (Customer Service phone number: 604-881-4700)

DISCLAIMER: The information in the Material Safety Data Sheet is offered for your consideration and guidance when exposed to this product. Velocity Chemicals Ltd. expressly disclaims all expressed or implied warranties and assumes no responsibilities for the accuracy or completeness of the data contained herein. The data in this MSDS does not apply to use with any other product or in any other process.