

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

	SI	ECTION 1	– PRODUCT IDEN	TIFICATION	
PRODUCT IDENTIFIER: C	TIFIER: CHISEL				
PRODUCT USE: M	edium to Heav	y Duty Caust	tic Cleaner		
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 transporation emergency or product spill, contact: In Canada- CANUTEC @ 613-996-6666 (24 hrs.)		
	SE	ECTION 2 -	- HAZARDOUS IN	GREDIENTS	
HAZARDOUS INGREDIENTS	% (W/W)	CAS NUMBER	LD50	LC50	EXPOSURE LIMITS
Sodium Hydroxide	5-10	1310-73-2	140-340 mg/kg (oral, rat) LDLo=500mg/kg (skin,rabbit)	Not available	OSHA(PEL) & ACGIH (TLV)= 2mg/m3(ceiling)
Disodium Trioxosilicate	1-5	6834-92-0	1153 mg/kg (oral, rat)	Not available	Manufacturer recommendation= 2mg/m3(ceiling)
Ethylenediaminetetraacetic acid, tetrasodium salt	1-5	64-02-8	3030 mg/kg(oral,rat) > 5g/kg (skin, rabbit)	Not available	Not established
Ethylene Glycol Monobutyl Ether	1-5	111-76-2	470mg/kg (oral,rat) 220mg/kg (skin,rabbit)	450ppm (inhal.,4hrs, rat)	OSHA(PEL)= 50ppm,skin ACGIH(TWA)= 20ppm,skin IDHL= 700ppm
	I	SECTI	⊥ ON 3 – PHYSICAL	DATA	1

Physical state: liquid	Vapour Density: not determined		
Solubility: soluble	Vapour Pressure: not determined		
Odour and Appearance: clear, colorless or green liquid, sweet odor pH (100%) @ 20°C: 13.0-14.0	Evaporation Rate: not determined Boiling Point (°C): not determined		
Specific Gravity @ 20°C: 1.132	Freezing Point (°C): not determined Coefficient of water/oil distribution: Greater than		
Odour Threshold (ppm): not established	1		

CHISEL

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SECTION 4 – FIRE AND EXPLOSION DATA				
Flammability: No, product is non-flammable.	Flash Point (°C) and method: not applicable			
If yes, under what condition: Not applicable.	Upper Flammable limit (% volume): not applicable			
Means of Extinction: Dry chemical, alcohol foam, CO ₂ ,	Lower Flammable limit (% volume): not applicable			
water spray. The product is not flammable. Use extinguishing media suitable for surrounding fires.	Autoignition temperature (°C): not applicable			
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	Usual Fire Hazards: Prolonged contact with sensitive metals like aluminum may form flammable hygrogen gas.			
surfaces.	Hazardous combustion products: may liberate			
Explosion Data-	carbon/nitrogen oxides, and other toxic organic vapours.			
Sensitivity to impact: None				
Sensitivity to static discharge: None				

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 and oxidizers, and reacts with sensitive metals such as zinc or aluminum to form flammable hydrogen gas.

Reactivity, and under what conditions: none known

Hazardous Decomposition Products: may form carbon/nitrogen oxides upon thermal decomposition.

SECTION 6 – TOXICOLOGICAL PROPERTIES

Primary route of entry: skin and eye contact, skin absorption, inhalation

Effects of Acute Exposure to Product: Product exposure can cause severe irritation or severe burns to skin and eyes. Inhaling mist or vapors can cause immediate irritation, burns or discomfort to respiratory system, headaches, nausea, etc.. Also, may be harmful if absorbed through skin.

Effects of Chronic Exposure to Product: Prolonged exposure may cause skin dermatitis and respiratory disorder. May also cause blood, kidney and liver disorders through repeated exposure of Ethylene glycol Monobutyl ether (based on animal test data).

Exposure Limits: see Section 2 under Hazardous	Mutagenicity: none known		
Ingredients Irritancy of Product: corrosive to skin, eyes and	Carcinogenicity: glycol ether monobutyl ether is classified as Group 3 (Unclassifiable as to carcinogenicity in humans) under IARC and A3 (confirmed animal carcinogen		
respiratory system.			
Sensitization: none known	with unknown revelence to humans) under ACGIH.		
Reproductive Toxicity: none known	Teratogenicity: none known		
	Synergistic Products: none known		

	CHISEL				
SECTION 7 – PREVENTATIVE MEASURES					
Respiratory Protection: Use a NIOSH/OSHA approved for alkaline mist/dust and organic vapor respirator if mists or vapors are present.Footwear: rubber shoes Clothing: long sleeve coveralls Other: rubber apronGloves: butyl or natural rubberEye Protection: splash proof chemical goggles or face shield.Footwear: rubber apron	for alkaline mist/dust and organic vapor respirator if mists or vapors are present. Gloves: butyl or natural rubber Eye Protection: splash proof chemical goggles or face	Clothing: long sleeve coveralls			

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 vacuum or pump into a suitable waste container. Reuse material if possible, or otherwise neutralize with acid before disposal. 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, 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.

Special Shipping Information:

WHMIS Classification: D2B, E

TDG Classification:

Corrosive Liquid, N.O.S. (Sodium Hydroxide and Disodium Trioxosilicate Mixture), Class 8, UN 1760, P.G. III

SECTION 8 – FIRST AID MEASURES

Inhalation: Ingestion: Skin Contact: Eye Contact:

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

SECTION 9 - OTHER INFORMATION					
REVISIONS:	February 11, 2009	SUPERCEDES:	April 16, 2008		
PREPARED BY:	Technical Department (Customer Service phone number: 604-881-4700)				
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