



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:		TALON			
PRODUCT USE:		FERROUS METAL HOT TANK POWDER CLEANER FOR HARD WATER			
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 Hydroxide	40-70	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	15-40	6834-92-0	1153 mg/kg (oral, rat)	Not available	Manufacturer recommendation= 2mg/m3(ceiling)
Trisodium Phosphate	5-10	7601-54-9	4150 mg/kg (oral,rat) > 7.9g/kg(skin,rabbit) Eye irritation- corrosive, 4hrs exposure	Not available	Nuisance dust- ACGIH(TLV, TWA)= 10mg/m3(inhalable), 3mg/m3(respirable) OSHA(PEL, TWA)= 15mg/m3(total dust), 5mg/m3(respirable)
SECTION 3 – PHYSICAL DATA					

<p>Physical state: solid</p> <p>Solubility: soluble</p> <p>Odour and Appearance: off white, odorless powder</p> <p>pH (1%) @ 20°C: 12-13</p> <p>Specific Gravity @ 20°C: 1.0</p> <p>Odour Threshold (ppm): not established</p>	<p>Vapour Density: not determined</p> <p>Vapour Pressure: not determined</p> <p>Evaporation Rate: not determined</p> <p>Boiling Point (°C): not determined</p> <p>Freezing Point (°C): not determined</p> <p>Coefficient of water/oil distribution: Greater than 1</p>
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TALON

SECTION 4 – FIRE AND EXPLOSION DATA

<p>Flammability: No, product is non-flammable.</p> <p>If yes, under what condition: Not applicable.</p> <p>Means of Extinction: Dry chemical, alcohol foam, CO₂, water spray. The product is not flammable. Use extinguishing media suitable for surrounding fires.</p> <p>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.</p> <p>Explosion Data-</p> <p>Sensitivity to impact: None</p> <p>Sensitivity to static discharge: None</p>	<p>Flash Point (°C) and method: not applicable</p> <p>Upper Flammable limit (% volume): not applicable</p> <p>Lower Flammable limit (% volume): not applicable</p> <p>Autoignition temperature (°C): not applicable</p> <p>Usual Fire Hazards: Prolonged contact with sensitive metals like aluminum may form flammable hydrogen gas.</p> <p>Hazardous combustion products: carbon/phosphorous oxides and toxic organic vapors.</p>
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SECTION 5 – REACTIVITY DATA

<p>Chemical Stability: yes, stable under normal storage conditions</p> <p>If no, under what conditions:</p> <p>Incompatibility with other substances: yes</p> <p>If so, under what conditions: strong acids and oxidizers, moisture, chlorinated hydrocarbons, and reacts with sensitive metals such as zinc or aluminum to form flammable hydrogen gas.</p> <p>Reactivity, and under what conditions: none known</p> <p>Hazardous Decomposition Products: may liberate carbon and phosphorous oxides upon thermal decomposition.</p>

SECTION 6 – TOXICOLOGICAL PROPERTIES

<p>Primary route of entry: skin and eye contact, inhalation</p> <p>Effects of Acute Exposure to Product: Product exposure can cause severe irritation or burns to skin and eye. Inhaling dust can cause immediate irritation, burns, discomfort to respiratory system.</p> <p>Effects of Chronic Exposure to Product: Prolonged exposure may cause skin dermatitis and respiratory disorder.</p>

<p>Exposure Limits: see Section 2 under Hazardous Ingredients</p> <p>Irritancy of Product: corrosive to skin, eyes and respiratory system.</p> <p>Sensitization: none known</p> <p>Reproductive Toxicity: none known</p>	<p>Mutagenicity: none known</p> <p>Carcinogenicity: none known</p> <p>Teratogenicity: none known</p> <p>Synergistic Products: none known</p>
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SECTION 7 – PREVENTATIVE MEASURES

<p>Respiratory Protection: Normally not required. However, use a NIOSH/OSHA approved dust mask for dusty conditions.</p> <p>Gloves: butyl or natural rubber</p> <p>Eye Protection: splash proof chemical goggles or glasses</p>	<p>Footwear: rubber shoes</p> <p>Clothing: long sleeve coveralls</p> <p>Other: rubber apron</p>
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TALON

SECTION 7 – PREVENTATIVE MEASURES (Cont.)

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

Leak and Spill Procedures: Wear protective equipment. Contain spill. Sweep, shovel or scoop into a suitable clean waste container. Keep away from drains or sewers. 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, skin and clothing. Avoid inhaling dust. Use in well ventilated area. Slowly add product to water. 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 storage temperature between 4°C to 30°C.

Special Shipping Information:

WHMIS Classification: E

TDG Classification:

Corrosive Solid, N.O.S. (Sodium Hydroxide & Disodium Trioxosilicate Mixture), Class 8, UN 1759, P.G. II

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 persists, 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)

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