

## SECTION I - PRODUCT IDENTIFICATION AND PREPARATION INFORMATION

PRODUCT NAME: CoilDScale Heavy Duty Acid  
1<sup>st</sup>, 2009

EFFECTIVE DATE: January

WHMIS CLASS: Acid Descaler  
Class E: Corrosive Material  
Class D - Division 2B

CODE NO.: 7281

T.D.G. CLASSIFICATION: Hydrochloric Acid Solution  
Class 8 UN 1789 PG: II

MANUFACTURER NAME AND ADDRESS: BRODI SPECIALTY PRODUCTS LTD.  
250 COCHRANE DRIVE, UNIT 9  
MARKHAM, ONTARIO L3R 8E5  
(905) 475-6084

MSDS PREPARED BY: MSDS CO-ORDINATOR, (877) 744-0751 EXT 205, BRODI SPECIALTY PRODUCTS LTD

EMERGENCY PHONE: CANUTEC (613) 996 6666

## SECTION II - HAZARDOUS INGREDIENTS

| INGREDIENTS:      | CAS#      | WT%   | ACGIH-TLV | LC50                      | LD50                    |
|-------------------|-----------|-------|-----------|---------------------------|-------------------------|
| Hydrogen chloride | 7647-01-0 | 10-30 | 5 ppm C   | 747 ppm/4Hr (Mouse)       | 700 mg/kg (Oral Rabbit) |
| Formic acid       | 64-18-6   | 1-5   | 5 ppm TWA | 6200 mg/m/15M(Oral Mouse) | 1100 mg/kg (Oral Rat)   |

## SECTION III- PHYSICAL DATA

|                          |                                 |                             |               |
|--------------------------|---------------------------------|-----------------------------|---------------|
| BOILING POINT (DEG C):   | 105°C (221°F)                   | SPECIFIC GRAVITY (H2O=1):   | 1.1           |
| VAPOUR PRESSURE (mm Hg): | Not available                   | PERCENT VOLATILE (WT%):     | 99            |
| VAPOUR DENSITY (AIR=1):  | Similar                         | EVAPORATION RATE (Water=1): | Similar       |
| SOLUBILITY IN WATER:     | Soluble                         | PH (AS SUPPLIED):           | <1.0          |
| PHYSICAL STATE:          | Liquid                          | VISCOSITY:                  | Not available |
| APPEARANCE AND ODOUR:    | Clear blue with a pungent odour |                             |               |

## SECTION IV- FIRE AND EXPLOSION DATA

|                                |                                   |
|--------------------------------|-----------------------------------|
| FLAMMABILITY:                  | Not flammable                     |
| FLASH POINT:                   | Not applicable                    |
| LEL:                           | Not available                     |
| UEL:                           | Not available                     |
| HAZARDOUS COMBUSTION PRODUCTS: | Chlorine gas                      |
| MEANS OF EXTINCTION:           | Treat for surrounding material.   |
| SPECIAL FIRE HAZARDS:          | Dangerous gases produced in fire. |

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**SECTION V- REACTIVITY DATA**

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CONDITIONS FOR CHEMICAL INSTABILITY: Stable  
INCOMPATIBILITY: Metals and Halogen compounds.  
HAZARDOUS DECOMPOSITION: Hydrogen, chlorine and fluoride gases.

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**SECTION VI- TOXICOLOGICAL PROPERTIES**

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ROUTE OF ENTRY: Skin contact, inhalation, ingestion

**EFFECTS OF ACUTE EXPOSURE:**

Very dangerous in case of skin contact (irritant, permeator), of eye contact (irritant), of inhalation. Corrosive to skin and eyes on contact. Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking or shortness of breath. This product may irritate eyes and skin upon contact. Inflammation of the eye is characterized by redness, watering and itching. Skin inflammation is characterized by itching, scaling, reddening or occasionally, blistering.

**EFFECTS OF CHRONIC EXPOSURE:**

SKIN: Prolonged or repeated exposure can cause drying, defatting and dermatitis.  
IRRITANCY: Hazardous by WHMIS criteria.  
RESPIRATORY TRACT SENSITIZATION: No data available  
CARCINOGENIC EFFECTS: Insufficient data available  
TERATOGENIC EFFECTS: Insufficient data available  
MUTAGENIC EFFECTS: Insufficient data available  
SYNERGISTIC MATERIALS: Not available

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**SECTION VII-PREVENTATIVE MEASURES**

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GLOVES: Gloves (impervious).  
EYE PROTECTION: Splash goggles.  
RESPIRATORY PROTECTION: If the TLV (50 ppm) of the product or any component is exceeded a NIOSH/MSHA jointly approved air supplied respirator is advised in the absence of proper environmental controls.  
OTHER PROTECTIVE EQUIPMENT: As required by employer codes.  
ENGINEERING CONTROLS: General ventilation is normally adequate. Use local exhaust for elevated temperature controls.  
LEAK AND SPILL PROCEDURE: Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with no- reactive absorbent and placed in suitable, covered labeled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice.  
WASTE DISPOSAL: Review federal, provincial and local government requirements prior to disposal.  
STORAGE REQUIREMENTS: Store in closed containers. Store away from incompatible materials. Ensure storage area has adequate ventilation.

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**SECTION VIII- FIRST AID**

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EYE: Immediately flush with water for 15 minutes. Call a doctor immediately.  
SKIN: Flush with soap and water. Call a doctor if irritation develops and persists. Completely decontaminate clothing, shoes and leather goods before reuse or discard.  
INHALATION: Remove to fresh air. If symptoms persist, call a doctor.  
INGESTION: Do not induce vomiting. Rinse mouth with water, then drink one or more glasses of water. Contact a doctor immediately. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious, is rapidly losing consciousness or is convulsing.

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