

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME: HL COIL BRITE #57014**

GENERAL USE: Coil Cleaner

PRODUCT DESCRIPTION: Pink granular corrosive powder/crystals, odorless

MANUFACTURER'S NAME

Highside Chemicals, Inc.

DATE PREPARED: April 16, 2010

SUPERSEDES: March 01, 2007

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ADDRESS (NUMBER, STREET, P.O. BOX)

11114 Reichhold Road

(CITY, STATE AND ZIP CODE)

Gulfport, MS 39503

COUNTRY

USA

TELEPHONE NUMBER FOR INFORMATION

(228) 896-9220

EMERGENCY TELEPHONE NUMBER

ChemTel Inc. 1- (800) 255-3924 Intl. + 01 (813) 248-0585

## SECTION 2 - HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

**DANGER!** Causes eye and skin burns. Corrosive. Hygroscopic. Harmful if swallowed. May cause severe respiratory tract irritation and possible burns. May cause severe digestive tract irritation with possible burns. May cause skeletal abnormalities.

TARGET ORGANS: Kidneys, respiratory system, skeletal structures.

Hazard symbols for this product -T;C Risk Phrases - R 25-34

### POTENTIAL HEALTH EFFECTS

**INHALATION:** Causes chemical burns to the respiratory tract. Inhalation may be fatal as a result of spasm, inflammation, edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema. Aspiration may lead to pulmonary edema. Depletes calcium levels in the body which can lead to hypocalcemia and death. May cause systemic effects.

**SKIN:** Contact with liquid is corrosive and causes severe burns and ulceration. May penetrate the skin and cause severe tissue and bone destruction. May cause skin rash (in milder cases), and cold and clammy skin with cyanosis and pale color.

**EYES:** Causes eye burns. May cause chemical conjunctivitis and corneal damage.

**INGESTION:** Harmful if swallowed. May cause severe and permanent damage to the digestive tract. May cause kidney damage. May cause perforation of the digestive tract. Causes severe digestive tract burns with abdominal pain. Fluorides can reduce calcium levels leading to fatal hypocalcemia. May cause systemic effects.

CARCINOGENICITY

NTP?

No

IARC MONOGRAPHS?

No

OSHA REGULATED?

No

## SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS	CAS #	EINECS #	% (by weight)	OSHA PEL		ACGIH TWA		RQ LBS
				PPM	MG/M3	PPM	MG/M3	
Ammonium bifluoride	1341-49-7	215-676-4	>93		2.5		2.5	

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**SECTION 4 - FIRST AID MEASURES**

**INHALATION:** Get medical aid immediately. Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag or mask.

**SKIN:** Get medical aid immediately. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Destroy contaminated shoes.

**EYES:** Get medical aid immediately. Do NOT allow victim to rub or keep eyes closed. Extensive irrigation with water is required (at least 30 minutes).

**INGESTION:** Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

**SECTION 5 - FIRE FIGHTING MEASURES****FLASH POINT (METHOD USED)**

Non-flammable

**FLAMMABLE LIMITS**

LEL: Not applicable

UEL: Not applicable

**AUTOIGNITION TEMPERATURE:**

Not determined

**NFPA CLASS:** None

**GENERAL HAZARDS:** Product is corrosive. Products of combustion include compounds of carbon, hydrogen and oxygen, including carbon monoxide.

**EXTINGUISHING MEDIA**

Carbon dioxide, water, water fog, dry chemical, chemical foam

**FIRE FIGHTING PROCEDURES**

CAUTION-Material is corrosive.

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

None

**HAZARDOUS COMBUSTION PRODUCTS**

Smoke, fumes, oxides of carbon

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** CAUTION -CORROSIVE- Small spills-wash to sanitary sewer with plenty of water. Large spills-Recover and segregate product for reuse; shovel product into approved container for disposal. For spills in excess of allowable limits (RQ) notify the National Response Center (800)424-8802; refer to CERCLA 40 CFR 302 for detailed instructions concerning reporting requirements.

**SECTION 7 - HANDLING AND STORAGE**

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Keep container closed when not in use; protect containers from abuse; protect from moisture. CAUTION - CORROSIVE. DO NOT add to warm or hot water; a violent eruption or hazards explosive reaction can result. When making solutions or diluting, only add sodium hydroxide slowly to surface of cold water while stirring. Keep this and other chemicals out of reach of children.

**SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION****ENGINEERING CONTROLS**

The use of local exhaust ventilation and airborne particle collection is recommended. Use corrosion-resistant ventilation equipment.

**PERSONAL PROTECTION:**

**RESPIRATORY PROTECTION (SPECIFY TYPE):** None required while threshold limits (Section 2) are kept below maximum allowable concentrations; if TWA exceeds limits, NIOSH approved respirator must be worn. Refer to 29 CFR 1910.134 or European Standard EN 149 for complete regulations.

**PROTECTIVE GLOVES:** Neoprene or rubber gloves with cuffs.

**EYE PROTECTION:** Protective eyeglasses or chemical safety goggles. Refer to 29 CFR 1910.133, ANSI Z87.1, or European Standard EN166.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Coveralls, apron, or other equipment should be worn to minimize skin contact.

**WORK / HYGIENIC PRACTICES:** Practice safe workplace habits. Minimize body contact with this, as well as all chemicals in general.

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**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE AND ODOR Pink granular powder/crystals, odorless	VAPOR DENSITY (AIR = 1) Not applicable
SPECIFIC GRAVITY (WATER = 1) >1.00	EVAPORATION RATE (n-Butyl Acetate = 1) Not applicable
SOLUBILITY IN WATER Complete	% VOLATILE (BY WEIGHT) 0%
pH 3-3.5 (13.6 oz IN 1 Gallon Water)	VAPOR PRESSURE 1hPa @ 20 deg C
MELTING POINT 258 deg F	FREEZING POINT Not applicable
VISCOSITY Solid	VOLATILE ORGANIC COMPOUNDS (VOC's) None

**SECTION 10 - STABILITY AND REACTIVITY**

STABILITY UNSTABLE: STABLE: XXX	CONDITIONS TO AVOID: Avoid generating airborne dust, avoid moisture.
INCOMPATIBILITY (MATERIALS TO AVOID): Glass and silicate containing materials are attacked. Contact with strong acids liberates hydrogen fluoride.	
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Decomposition will not occur if handled and stored properly. In case of a fire, hydrogen fluoride, ammonia, carbon dioxide, carbon monoxide, and other decomposition products.	
HAZARDOUS POLYMERIZATION MAY OCCUR: WILL NOT OCCUR: X	CONDITIONS TO AVOID: None

**SECTION 11 - TOXICOLOGICAL INFORMATION**

Hazardous Ingredients	CAS #	EINECS #	LD50 of Ingredient Species and Route	LC50 of Ingredient Species
Ammonium bifluoride	1341-49-7	215-676-4	Not established	Not established
			Not established	Not established

**SECTION 12 - ECOLOGICAL INFORMATION**

No data are available on the adverse effects of this material on the environment. Neither COD nor BOD data are available. Based on the chemical composition of this product it is assumed that the mixture can be treated in an acclimatized biological waste treatment plant system in limited quantities. However, such treatment should be evaluated and approved for each specific biological system. None of the ingredients in this mixture are classified as a Marine Pollutant.

**SECTION 13 - DISPOSAL CONSIDERATIONS**

WASTE DISPOSAL METHOD: Dispose of in accordance with Local, State, and Federal Regulations. Refer to "40 CFR Protection of Environment Parts 260 - 299" for complete waste disposal regulations. Consult your local, state, or Federal Environmental Protection Agency before disposing of any chemicals. Do not flush to sanitary sewer or waterway. According to the European Waste Catalogue, waste codes are application specific and should be assigned by the user based on the application for which the product is used.

**SECTION 14 - TRANSPORT INFORMATION**

PROPER SHIPPING NAME: Ammonium hydrogen difluoride, solid

DOT HAZARD CLASS / Pack Group: 8 / II	IATA HAZARD CLASS / Pack Group: 8 / II
REFERENCE: 49 CFR 173.154, .212, .240	IMDG HAZARD CLASS: 8 / II
UN / NA IDENTIFICATION NUMBER: UN 1727	RID/ADR Dangerous Goods Code: 8(16B)
LABEL: CORROSIVE	UN TDG Class / Pack Group: 8 / II
HAZARD SYMBOLS: C	

Note: Transportation information provided is for reference only. Customer is urged to consult 49 CFR 100 - 177, IMDG, IATA, EC, United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

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**SECTION 15 - REGULATORY INFORMATION**

**TSCA (Toxic Substance Control Act)**

All components of this product are listed on the U.S. Toxic Substances Control Act Chemical Inventory (TSCA Inventory) .

**SARA TITLE III (Superfund Amendments and Reauthorization Act)**

311/312 Hazard Categories  
 Acute, chronic

313 Reportable Ingredients:  
 None

**CERCLA (Comprehensive Response Compensation and Liability Act)**

(a) The Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) has notification requirements for releases or spills to the environment of the Reportable Quantity (RQ for this mixture=100 lbs) or greater amounts, according to 40 CFR 302.

**CPR (Canadian Controlled Products Regulations)**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

**IDL (Canadian Ingredient Disclosure List)**

Components of this product identified by CAS number and listed on the Canadian Ingredient Disclosure List are shown in Section 3.

**DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List)**

Components of this product identified by CAS number are listed on the DSL or NDSL, and may or may not be listed in Section 2 of this document. Only ingredients classified as "hazardous" are listed in Section 2 unless otherwise indicated.

**EINECS (European Inventory of Existing Commercial Chemical Substances)**

Components of this product identified by CAS numbers are on the European Inventory of Existing Commercial Chemical Substances.

**Risk Phrases**

R25 Toxic if swallowed  
 R34 Causes burns

**SYMBOL(S) REQUIRED FOR LABEL**

**Safety Phrases**

S22 Do not breathe dust  
 S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 S37 Wear suitable gloves.  
  
 S 45 In case of accident or if you feel unwell, seek medical advice immediately.

**SECTION 16 - OTHER INFORMATION**

No specific notes.

**HMIS HAZARD RATINGS**

HEALTH	3	* = Chronic Health Hazard	2 = MODERATE
FLAMMABILITY	0	0 = INSIGNIFICANT	3 = HIGH
PHYSICAL HAZARD	1	1 = SLIGHT	4 = EXTREME

PERSONAL PROTECTIVE EQUIPMENT C Safety Glasses, Gloves, Apron

**REVISION SUMMARY:**

This MSDS has been revised in the following sections:  
 Format update; Section 14, DOT classification

**MSDS Prepared by:**

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The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.