

**MATERIAL SAFETY
DATA SHEET**

HIGHSIDE CHEMICALS, INC.
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HL COIL BRITE

THIS MSDS COMPLIES WITH 29 CFR 1900.1200

SECTION 1 - IDENTITY/EMERGENCY INFORMATION

PRODUCT NAME: HL COIL BRITE PRODUCT CODE: 57014
CHEMICAL NAME: MIXTURE
CHEMICAL FORMULA: MIXTURE

IN CASE OF AN EMERGENCY CALL 1-800-255-3924

SECTION 2 – INGREDIENTS

COMPONENTS	CAS NO.	PEL/TVL – SOURCE
AMMONIUM BIFLUORIDE	1341 - 49 - 7	2.5 mg/m ³ TWA OSHA & ACGIH
AMMONIUM FLUORIDE	12125 - 01 - 8	

ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE U.S. TSCA INVENTORY

SECTION 3 - PHYSICAL DATA

BOILING POINT: NOT APPLICABLE

MELTING POINT: 258°F

VAPOR PRESSURE (mmHg): NOT APPLICABLE

VAPOR DENSITY(AIR > 1): NOT APPLICABLE

BULK DENSITY, LOOSE: 43.7 lb/ft³
SOLUBILITY IN WATER: SOLUBLE @ 630 g/l

APPEARANCE: PINK POWDER / CRYSTALS

ODOR: SLIGHTLY PUNGENT

EVAPORATION RATE (n-Butyl Acetate = 1): NOT APPLICABLE

% VOLATILE (BY WEIGHT): 0

PH: APPROX. 3 - 3.5 (13.6 oz. IN 1 GAL. WATER)

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): NONE

AUTOIGNITION TEMPERATURE: NOT APPLICABLE

EXPLOSIVE LIMITS: LOWER: NOT APPLICABLE UPPER: NOT APPLICABLE

EXTINGUISHING MEDIA: WATER FOG, FOAM, CARBON DIOXIDE OR DRY CHEMICAL.

SPECIAL FIRE FIGHTING PROCEDURES: WEAR SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACE PIECE AND IMPERVIOUS PROTECTIVE CLOTHING. PREVENT HUMAN EXPOSURE TO FIRE, FUMES, SMOKE, AND COMBUSTION PRODUCTS.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: UNDER FIRE CONDITIONS: HYDROGEN FLUORIDE, AMMONIA, CARBON DIOXIDE, CARBON MONOXIDE, AND OTHER DECOMPOSITION PRODUCTS.

UNUSUAL FIRE AND EXPLOSION HAZARDS: DECOMPOSES ON HEATING, FUMES CORROSIVE AND TOXIC.

HAZARD RATING: HEALTH - 3 FLAMMABILITY - 0 REACTIVITY - 1

SECTION 5 - REACTIVITY DATA

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

INCOMPATIBILITIES: GLASS AND SILICATE CONTAINING MATERIALS ARE ATTACKED. CONTACT WITH STRONG ACIDS LIBERATES HYDROGEN FLUORIDE.

STABILITY: STABLE UNDER NORMAL CONDITIONS

SECTION 6 - HEALTH HAZARD DATA

CARCINOGENICITY: NO CONSTITUENT OF THIS PRODUCT IS LISTED BY OSHA, NTP, OR IARC.

PRIMARY ROUTE(S) OF ENTRY: INHALATION, INGESTION, SKIN CONTACT, EYE

POTENTIAL EFFECTS OF EXPOSURE:

BURN SYMPTONS MAY NOT APPEAR IMMEDIATELY. CHRONIC BONE CHANGES OR LUNG SCARRING CAN OCCUR.

EYES: CORROSIVE - MAY CAUSE BURNS OR IRRITATION, PAIN, TEARS, EYE DAMAGE, BLINDNESS.

INGESTION: CORROSIVE - MAY CAUSE BURNS OR IRRITATION, PAIN, SEVERE BURNS, VOMITING, DIARRHEA, TISSUE PERFORATION.

SKIN: CORROSIVE - MAY CAUSE SEVERE BURNS OR IRRITATION, PAIN, SKIN DAMAGE.

INHALATION: CORROSIVE - MAY CAUSE BURNS OR IRRITATION, COUGHING, CHOKING, HEADACHE, DIZZINESS, WEAKNESS, BREATHING DIFFICULTY, FLUID RETENTION, TISSUE DISCOLORATION, EFFECTS MAY BE DELAYED.

OVER EXPOSURE MAY AGGRAVATE DISORDERS OF THE RESPIRATORY SYSTEM OR SKIN.

CAN CAUSE BRITTLE BONES.

FIRST AID PROCEDURES:

EYE CONTACT: IMMEDIATELY RINSE WITH RUNNING WATER FOR 15 MINUTES WHILE HOLDING EYELIDS APART. CALL PHYSICIAN. CONTINUE RINSING WITH CALCIUM GLUCONATE SOLUTION.

SKIN CONTACT: IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND SHOES. CALL PHYSICIAN. USE LOCAL APPLICATION OF CALCIUM GLUCONATE GEL.

INGESTION: DO NOT INDUCE VOMITING, RINSE MOUTH WITH WATER. DILUTE STOMACH CONTENTS BY DRINKING WATER OR MILK. IF VOMITING OCCURS, KEEP HEAD BELOW HIPS. CALL PHYSICIAN IMMEDIATELY.

INHALATION: REMOVE INDIVIDUAL TO FRESH AIR, IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN. IF BREATHING HAS STOPPED GIVE ARTIFICIAL RESPIRATION. CALL PHYSICIAN.

SECTION 7 - SPECIAL PROTECTION

RESPIRATORY PROTECTION: USE A NIOSH/MSHA RESPIRATOR APPROVED FOR CONDITIONS OF EXPOSURE OR IF EXPOSURE LIMITS ARE EXCEEDED.

EYE PROTECTION: CHEMICAL GOGGLES, FACE SHIELD.

VENTILATION: PROVIDE SUFFICIENT MECHANICAL (GENERAL AND/OR LOCAL EXHAUST) VENTILATION TO MINIMIZE EXPOSURE.

SKIN PROTECTION: ACID PROOF GLOVES, IMPERVIOUS CLOTHING, RUBBER BOOTS.

OTHER PROTECTION: WASHING FACILITIES AND SAFETY SHOWERS SHOULD BE READILY AVAILABLE.

SECTION 8 - ENVIRONMENTAL INFORMATION

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

WEAR PROTECTIVE EQUIPMENT. RECOVER FREE PRODUCT. SPILL SHOULD BE PLACED IN SUITABLE CONTAINERS FOR DISPOSAL. RESIDUAL ACIDITY MAY BE NEUTRALIZED WITH HYDRATED LIME, SODA ASH, SODIUM BICARBONATE.

WASTE DISPOSAL METHOD:

SMALL AND LARGE SPILL: DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS. DO NOT ALLOW TO ENTER SEWERS & WATERWAYS.

THE FOLLOWING INFORMATION MAY BE USEFUL IN COMPLYING WITH VARIOUS STATE AND FEDERAL LAWS AND REGULATIONS UNDER VARIOUS ENVIRONMENTAL STATUTES:

EPA REGULATION 302 (CERCLA SECTION 102): REPORTABLE QUANTITY (RQ) FOR AMMONIUM BIFLUORIDE IS 100 LBS.

EPA REGULATION CFR 355 (SARA SECTION 301-302): NO THRESHOLD PLANNING QUANTITY FOR PRODUCT OR ANY CONSTITUENT GREATER THAN 1% OR 0.1% (CARCINOGEN).

EPA REGULATION 40 CFR 370 - 372 (SARA SECTIONS 311-312): NONE

SECTION 9 - TRANSPORTATION INFORMATION

D.O.T. (49 CFR172):

11 LBS. CONTAINER AND UNDER: CONSUMER COMMODITY, ORM-D
OVER 11 LBS. CONTAINER: AMMONIUM HYDROGEN DIFLUORIDE, SOLID, 8, UN1727, II

POISON CONSTITUENT: NONE

BILL OF LADING DESCRIPTION:

CLEANING COMPOUND, IT 48581, CLASS 55

INTERNATIONAL (UN/NA CODE):

1KG. CONTAINER AND UNDER: AMMONIUM HYDROGEN DIFLUORIDE, SOLID, 8, UN1727, II, LTD. QUANTITY

OVER 1KG. CONTAINER: AMMONIUM HYDROGEN DIFLUORIDE, SOLID, 8, UN1727, II

IMCO: EmS No. 8-06 CLASS 8

DATE PREPARED: 10 - 13 - 99

DATE UPDATED: **04/03/03**

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