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**SECTION 1: PRODUCT AND COMPANY INFORMATION**

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**PRODUCT NAME:** DrillTec™ Tap-Grip® Concrete Fasteners; LiteDeck Fasteners (LD); Coated Drill Point Fasteners; Heavy Duty #14 Fasteners (HD), Extra Heavy Duty #15 Roofing Fastener, Super Extra Duty #21 Roofing Fastener, ASAP 3P, ASAP 3S, CD-10 Fastener, CR 1.2 Base Sheet Fastener, CR-Base Sheet Fastener, Fluted Nail Concrete Fastener, Masonry Anchor, NTB – 1HWO, NTB – 1HWW, Steel Plates, Metal Plates, Standard #12 Roofing Fastener, Locking Impact Nail, Extra Heavy Duty ASAP, Heavy Duty ASAP 25

**TRADE NAME:** N/A

**CHEMICAL NAME / SYNONYM:** Refractory Metal Carbide

**CHEMICAL FAMILY:** Metal

**MANUFACTURER:** GAF

**ADDRESS:** 1 Campus Drive, Parsippany, NJ 07054

**24-HOUR EMERGENCY PHONE (CHEMTREC):** 800 – 424 – 9300

**INFORMATION ONLY:** 800 – 766 – 3411

**PREPARED BY:** Corporate EHS

**APPROVED BY:** Corporate EHS

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**SECTION 2: HAZARDS IDENTIFICATION**

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As defined in the OSHA Hazard Communication Standard, 29 CFR 1910.1200, the products listed below are considered articles and do not require an SDS. In addition, articles are not included in the scope of the Globally Harmonization System (GHS). As such, the GHS labeling elements are not included on this SDS. All components listed for this product are bound within the product. When handled as intended and under normal conditions of use, there is no evidence that any of the ingredients are released in amounts that pose a significant health risk. Although these products are not subject to the OSHA Standard or GHS labeling elements, GAF would like to disclose as much health and safety information as possible to ensure that this product is handled and used properly. This SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and be made available for employees and other users of this product. In addition, the recommendations for handling and use of these products should be included in worker training programs.

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**PRIMARY ROUTE OF EXPOSURE:** Grinding cemented carbide product will produce dust of potentially hazardous ingredients, which can be inhaled, swallowed or come in

contact with the skin or eyes.

### SIGNS & SYMPTOMS OF EXPOSURE

<b>EYES:</b>	Can cause irritation.
<b>SKIN:</b>	Can cause an irritation or skin rash due to cobalt sensitization. Certain skin conditions, such as dry skin, may be aggravated by exposure.
<b>INGESTION:</b>	Reports outside the industry suggest that ingestion of significant amounts of cobalt has the potential for causing blood, heart and other organ problems.
<b>INHALATION:</b>	Dust from grinding can cause irritation of the nose and throat. It also has the potential for causing transient or permanent respiratory disease, including occupational asthma and interstitial fibrosis, in a small percentage of exposed individuals. It is reported that cobalt dust is the most probable cause of such respiratory diseases. Symptoms include productive cough, wheezing, shortness of breath chest tightness and weight loss. Interstitial fibrosis (lung scarring) can lead to permanent disability or death. Certain pulmonary conditions may be aggravated by exposure.
<b>ACUTE HEALTH HAZARDS:</b>	N/A
<b>CHRONIC HEALTH HAZARDS:</b>	N/A
<b>CARCINOGENICITY:</b>	N/A

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS #	% (BY WT)	OCCUPATIONAL EXPOSURE LIMITS		
			OSHA	ACGIH	OTHER
Tungsten Carbide	12070-12-1	37.6 - 97	NE	NE	REL: 0.05 mg/m <sup>3</sup> (10-hr)
Cobalt	7440-48-4	3 - 25	0.1 mg/m <sup>3</sup> for metal dust and fumes as Co	0.02 mg/m <sup>3</sup>	REL: 0.05 mg/m <sup>3</sup> for metal dust and fumes as Co
Tantalum Carbide	12070-06-3	0.0 - 56.4	NE	NE	NE
Chromium Carbide	12012-35-0	0.0 - 2.5	NE	NE	NE
Chromium (+3)	7440-47-3	0.0 - 2.5	1 mg/m <sup>3</sup>	0.5 mg/m <sup>3</sup>	REL: 0.5 mg/m <sup>3</sup>

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NE = Not Established

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**EYES:** Can cause irritation.

**SKIN:** Can cause an irritation or skin rash due to cobalt sensitization. Certain skin conditions, such as dry skin, may be aggravated by exposure.

**INGESTION:** Reports outside the industry suggest that ingestion of significant amounts of cobalt has the potential for causing blood, heart and other organ problems.

**INHALATION:** Dust from grinding can cause irritation of the nose and throat. It also has the potential for causing transient or permanent respiratory disease, including occupational asthma and interstitial fibrosis, in a small percentage of exposed individuals. It is reported that cobalt dust is the most probable cause of such respiratory diseases. Symptoms include productive cough, wheezing, shortness of breath chest tightness and weight loss. Interstitial fibrosis (lung scarring) can lead to permanent disability or death. Certain pulmonary conditions may be aggravated by exposure.

**ACUTE HEALTH HAZARDS:** N/A

**CHRONIC HEALTH HAZARDS:** N/A

**CARCINOGENICITY:** N/A

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**SECTION 4: FIRST AID MEASURES**

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**FIRST AID PROCEDURES**

**EYES:** If irritation occurs flush with copious amount of water. If irritation persists, seek medical attention.

**SKIN:** If irritation or rash occurs, thoroughly wash affected area with soap and water and isolate from exposure. If irritation persists, seek medical attention.

**INHALATION:** If symptoms of pulmonary involvement develop (coughing, wheezing,

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shortness of breath, etc.), remove from exposure and seek medical attention.

**INGESTION:**

If substantial quantities are swallowed, dilute with large amount of water, induce vomiting and seek medical attention.

**NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:**

N/A

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**SECTION 5: FIRE FIGHTING PROCEDURES**

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**SUITABLE EXTINGUISHING MEDIA:**

For powder fires, smother with dry sand, dry dolomite, ABC type fire extinguisher, or flood with water.

**HAZARDOUS COMBUSTION PRODUCTS:**

Hard Cemented Carbide Product is not a fire hazard. Dusts generated in grinding operations may ignite if allowed to accumulate and subjected to an ignition source.

**RECOMMENDED FIRE FIGHTING PROCEDURES:**

For a powder fire confined to a small area, use a respirator approved for toxic dusts and fumes. For large fire involving this material, fire fighters should use self-contained breathing apparatus.

**UNUSUAL FIRE & EXPLOSION HAZARDS:**

Dusts may present a fire or explosion hazard under rare favoring conditions of particle size, dispersion and strong ignition source. However, this is not expected to be a problem under normal handling conditions.

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

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**ACCIDENTAL RELEASE MEASURES:**

Ventilate area of spill. Clean up using methods, which avoid dust generation, such as vacuum (with appropriate filter to prevent airborne dust levels which exceed the PEL or TLV), wet dust mop or wet clean up. If airborne dust is generated, use an appropriate NIOSH approved respirator.

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**SECTION 7: HANDLING AND STORAGE**

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**HANDLING AND STORAGE:**

Maintain good housekeeping procedures to prevent dust accumulation during grinding. Avoid dust inhalation and direct skin contact with dust.

**OTHER PRECAUTIONS:**

N/A

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

<b>ENGINEERING CONTROLS / VENTILATION:</b>	Use local exhaust ventilation, which is adequate to limit personal exposure to airborne dust to levels, which do not exceed the PEL or TLV. If such equipment is not available, use respirators as specified above.
<b>RESPIRATORY PROTECTION:</b>	Use an appropriate NIOSH approved respirator if airborne dust concentrations exceed the appropriate PEL or TLV. All appropriate requirements set forth in 29 CFR 1910.134 should be met.
<b>EYE PROTECTION:</b>	Safety glasses with side shields may be necessary when handling, cutting or applying this product.
<b>SKIN PROTECTION:</b>	None required.
<b>OTHER PROTECTIVE EQUIPMENT:</b>	Protective Gloves or Barrier cream are recommended when contact with dust or mist is likely. Prior to applying the Barrier cream use of protective gloves, wash thoroughly.
<b>WORK HYGIENIC PRACTICES:</b>	Wash exposed skin prior to eating, drinking or smoking and at the end of each work shift. Wash contaminated clothing prior to reuse.
<b>EXPOSURE GUIDELINES:</b>	N/A

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>APPEARANCE &amp; ODOR:</b>	Solid		
<b>FLASH POINT:</b>	No Data	<b>LOWER EXPLOSIVE LIMIT:</b>	No Data
<b>METHOD USED:</b>	No Data	<b>UPPER EXPLOSIVE LIMIT:</b>	No Data
<b>EVAPORATION RATE:</b>	No Data	<b>BOILING POINT:</b>	No Data
<b>pH (undiluted product):</b>	No Data	<b>MELTING POINT:</b>	No Data
<b>SOLUBILITY IN WATER:</b>	No Data	<b>SPECIFIC GRAVITY:</b>	11.85-15.35 (water=1)
<b>VAPOR DENSITY:</b>	No Data	<b>PERCENT VOLATILE:</b>	0.0%
<b>VAPOR PRESSURE:</b>	No Data	<b>MOLECULAR WEIGHT:</b>	No Data
<b>VOC WITH WATER (LBS/GAL):</b>	No Data	<b>WITHOUT WATER (LBS/GAL):</b>	No Data

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**SECTION 10: STABILITY AND REACTIVITY**

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THERMAL STABILITY: STABLE  UNSTABLE 

CONDITIONS TO AVOID (STABILITY): N/A

INCOMPATIBILITY (MATERIAL TO AVOID): Contact of dust with strong oxidizers may cause fire or explosions. Also to avoid strong acids.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: N/A

HAZARDOUS POLYMERIZATION: Will not occur.

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**SECTION 11: TOXICOLOGICAL INFORMATION**

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TOXICOLOGICAL INFORMATION: No information available.

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**SECTION 12: ECOLOGICAL INFORMATION**

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ECOLOGICAL INFORMATION: No information available.

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**SECTION 13: DISPOSAL CONSIDERATIONS**

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WASTE DISPOSAL METHOD: This product, as supplied, is not regulated as a hazardous waste by the U.S. Environmental Protection Agency (EPA) under Resource Conservation and Recovery Act (RCRA) regulations. Comply with state and local regulations for disposal.

RCRA HAZARD CLASS: None

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**SECTION 14: TRANSPORTATION INFORMATION**

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**U.S. DOT TRANSPORTATION**

PROPER SHIPPING NAME: N/A

HAZARD CLASS: N/A

ID NUMBER: N/A

**PACKING GROUP:** N/A  
**LABEL STATEMENT:** N/A  
**OTHER:** N/A

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**SECTION 15: REGULATORY INFORMATION**


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**U.S. FEDERAL REGULATIONS**

**TSCA:** All components are listed on the TSCA inventory.

**CERCLA:** N/A

**SARA** N/A

**311/312 HAZARD CATEGORIES:** Fire Hazard, Health Hazard

**313 REPORTABLE INGREDIENTS:** Cobalt - 7440-48-4  
Chromium -7440-47-3

**CALIFORNIA PROPOSITION 65:** This product contains a chemical known to the state of California to cause cancer and birth defects or other reproductive harm. Cancer: Cobalt, Chromium.

Other state regulations may apply. Check individual state requirements. The following components appear on one or more of the following state hazardous substances lists:

Chemical Name	CAS #	CA	MA	MN	NJ	PA	RI
Tungsten Carbide	12070-12-1	No	No	N/A	Yes	No	No
Cobalt	7440-48-4	Yes	Yes	N/A	Yes	Yes	Yes
Tantalum Carbide	12070-06-3	No	No	N/A	No	No	No
Chromium Carbide	12012-35-0	No	No	N/A	No	No	No
Chromium	7440-47-3	Yes	Yes	N/A	Yes	Yes	Yes

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**SECTION 16: OTHER INFORMATION**


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**ADDITIONAL COMMENTS:** N/A

**DATE OF PREVIOUS SDS:** September 2013

**CHANGES SINCE PREVIOUS SDS:** Headquarters Address Change

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**This information relates to the specific material designated and may not be valid for such material used on combination with any other materials or in any process. Such information is to the best of our knowledge and belief accurate and reliable as of the date compiled. However, no representation, warranty or guarantee, expressed or implied, is made as to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his particular use. We do not accept liability for any loss or damage that may occur from the use of this information. Nothing herein shall be construed as a recommendation for uses which infringe valid patents or as extending a license of valid patents.**