



SECTION 1: PRODUCT AND COMPANY INFORMATION

PRODUCT NAMES: Drill-Tec™ Batten Bar, Drill-Tec™ Twin Loc Tubes Batten Bar, Drill-Tec™ #12 Fastener, Drill-Tec™ #12 Fastener Hex Head, Drill-Tec™ #12 Stainless, Drill-Tec™ #14 Fastener, Drill-Tec™ CD-10, Drill-Tec™ LD Fastener, Drill-Tec™ Polymer Gyptec Fastener, Drill-Tec™ Purlin Fastener, Drill-Tec™ SXHD, Drill-Tec™ Twin Loc Tube, Drill-Tec™ XHD Fastener, Drill-Tec™ 2 3/4 in. Barbed SXHD Plate, Drill-Tec™ 2 3/8 in. Barbed XHD Plate, Drill-Tec™ 2 in. Barbed Plate, Drill-Tec™ 2 in. Double Barbed XHD Plate, Drill-Tec™ 2" Gyptec Plate, Drill-Tec™ 2-3/4" Eyehook Seam Plate, Drill-Tec™ 3 in. Ribbed Galvalume Plate (Flat), Drill-Tec™ 3" Gyptec Plate, Drill-Tec™ 3" Plastic Locking Plate, Drill-Tec™ 3" Standard Steel Plate, Drill-Tec™ 3" Steel Plate, Drill-Tec™ AccuTrac® Flat Plate, Drill-Tec™ AccuTrac® Recessed Plate, Drill-Tec™ Eyehook AccuSeam Plate, Drill-Tec™ LD Plate, Drill-Tec™ Plastic Plate, Drill-Tec™ RhinoBond® PVC XHD Plate, Drill-Tec™ RhinoBond® PVC XHD Tread Safe Plate, Drill-Tec™ RhinoBond® TPO SXHD Plate, Drill-Tec™ RhinoBond® TPO XHD Plate, Drill-Tec™ RhinoBond® TPO XHD Tread Safe Plate, Drill-Tec™ ASAP 3P, Drill-Tec™ ASAP 3S, Drill-Tec™ Base Sheet Fastener (1.2 in.), Drill-Tec™ Base Sheet Fastener (1.7 in.), Drill-Tec™ Base Sheet Fastener E (1.2 in.), Drill-Tec™ Base Sheet Fastener E (1.7 in.), Drill-Tec™ DL 1.7" Base Sheet Fastener, Drill-Tec™ Extra Heavy Duty ASAP Assembled Screw and 2-3/8 in. Steel Plate, Drill-Tec™ Extra Heavy Duty ASAP Roofing Fastener – Insulation, Drill-Tec™ Heavy Duty ASAP 2S Assembled Screw and 2 in. Steel Plate, Drill-Tec™ Heavy Duty ASAP Roofing Fastener Assembled with a 3" Metal Plate, Drill-Tec™ Heavy Duty ASAP Roofing Fastener Assembled with a 3" Plastic Plate, Drill-Tec™ Locking Impact Nail.

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

SECTION 2: HAZARDS IDENTIFICATION

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.

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

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

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

OCCUPATIONAL EXPOSURE LIMITS

CHEMICAL NAME	CAS #	% (BY WT)	OSHA	ACGIH	OTHER
Tungsten Carbide	12070-12-1	37.6 - 97	NE	NE	REL: 0.05 mg/m ³ (10-hr)
Cobalt	7440-48-4	3 - 25	0.1 mg/m ³ for metal dust and fumes as Co	0.02 mg/m ³	REL: 0.05 mg/m ³ 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 ³	0.5 mg/m ³	REL: 0.5 mg/m ³

NE = Not Established

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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

SECTION 4: FIRST AID MEASURES

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, 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

SECTION 5: FIRE FIGHTING PROCEDURES

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.

SECTION 6: ACCIDENTAL RELEASE MEASURES

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.

SECTION 7: HANDLING AND STORAGE

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

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS / VENTILATION: 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.

RESPIRATORY PROTECTION: 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.

EYE PROTECTION: Safety glasses with side shields may be necessary when handling, cutting or applying this product.

SKIN PROTECTION: None required.

OTHER PROTECTIVE EQUIPMENT: 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.

WORK HYGIENIC PRACTICES: Wash exposed skin prior to eating, drinking or smoking and at the end of each work shift. Wash contaminated clothing prior to reuse.

EXPOSURE GUIDELINES: N/A

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE & ODOR:	Solid		
FLASH POINT:	No Data	LOWER EXPLOSIVE LIMIT:	No Data
METHOD USED:	No Data	UPPER EXPLOSIVE LIMIT:	No Data
EVAPORATION RATE:	No Data	BOILING POINT:	No Data

pH (undiluted product):	No Data	MELTING POINT:	No Data
SOLUBILITY IN WATER:	No Data	SPECIFIC GRAVITY:	11.85-15.35 (water=1)
VAPOR DENSITY:	No Data	PERCENT VOLATILE:	0.0%
VAPOR PRESSURE:	No Data	MOLECULAR WEIGHT:	No Data
VOC WITH WATER (LBS/GAL):	No Data	WITHOUT WATER (LBS/GAL):	No Data

SECTION 10: STABILITY AND REACTIVITY

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.

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: No information available.

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: No information available.

SECTION 13: DISPOSAL CONSIDERATIONS

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

SECTION 14: TRANSPORTATION INFORMATION

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

SECTION 15: REGULATORY INFORMATION

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

SECTION 16: OTHER INFORMATION

ADDITIONAL COMMENTS: N/A

DATE OF PREVIOUS SDS: December 2014

CHANGES SINCE PREVIOUS SDS: Headquarters Address Change

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.