



U.S. Department  
of Transportation

East Building, PHH – 32  
1200 New Jersey Avenue, Southeast  
Washington, D.C. 20590

**Pipeline and Hazardous  
Materials Safety Administration**

**The US Department of Transportation  
Competent Authority for the United States**

**CLASSIFICATION OF EXPLOSIVES**  
**FIRST REVISION**

Based upon a request by Diamondback Industries, 3824 Williamson Road, P.O. Box 281, Crowley, TX 76036, United States the following items are classed in accordance with Section 173.56, Title 49, Code of Federal Regulations (49 CFR). A copy of your application, all supporting documentation and a copy of this approval must be retained and made available to DOT upon request.

**U.N. PROPER SHIPPING NAME AND NUMBER:**

Cartridges, power device, UN0276

**U.N. CLASSIFICATION CODE:** 1.4C

**REFERENCE NUMBER**

EX2006010093

**PRODUCT DESIGNATION/PART NUMBER**

BPC-1500-020 (#20 Slow-Burn Charge f/#20  
Setting Tools)

**NOTES:** The following packaging method is assigned: Inner Packaging – Bags, heat-sealed foil-plastic, each containing one power device cartridge. Outer Packaging – UN 4G fiberboard box, each containing not more than ten (10) inner packagings with top and bottom fiberboard pads and sufficient cushioning material to prevent movement during transport.

**DATED:** 12/23/2010

For Dr. Magdy El-Sibaie  
Associate Administrator for Hazardous Materials Safety



**MATERIAL SAFETY DATA SHEET  
CARTRIDGES, POWER DEVICE 1.4C  
CARTRIDGES, OILWELL 1.4C**

<b>PRODUCT IDENTIFICATION</b>	
<b>PRODUCT NAME</b>	<b>POWER CHARGES</b>
<b>TRADE NAMES AND SYNONYMS</b>	<b>SETTING TOOL POWER CHARGES, CARTRIDGES, POWER DEVICE, CARTRIDGES OIL WELL</b>
<b>MANUFACTURER</b>	<b>DIAMONDBACK INDUSTRIES, INC.</b>
<b>TRANSPORTATION EMERGENCY</b>	<b>1-800-255-3924 (24 HOURS – CHEM-TEL)</b>

**PREVENTION OF ACCIDENTS IN THE USE OF EXPLOSIVES**

THE PREVENTION OF ACCIDENTS IN THE USE OF EXPLOSIVES IS A RESULT OF CAREFUL PLANNING AND OBSERVANCE OF THE BEST KNOWN PRACTICES. THE EXPLOSIVES USER MUST REMEMBER THAT HE IS DEALING WITH A POWERFUL FORCE AND THAT VARIOUS DEVICES AND METHODS HAVE BEEN DEVELOPED TO ASSIST HIM IN DIRECTING THIS FORCE. HE SHOULD REALIZE THAT THIS FORCE, IF MISDIRECTED, MAY EITHER KILL OR INJURE BOTH HIM AND HIS FELLOW WORKERS.

**WARNING**

**ALL EXPLOSIVES ARE DANGEROUS** AND MUST BE CAREFULLY HANDLED AND USED FOLLOWING APPROVED SAFETY PROCEDURES EITHER BY OR UNDER THE DIRECTION OF COMPETENT, EXPERIENCED PERSONS IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, REGULATIONS, OR ORDINANCES. IF YOU HAVE ANY QUESTIONS OR DOUBTS AS HOW TO USE ANY EXPLOSIVE PRODUCT, **DO NOT USE IT** BEFORE CONSULTING WITH YOUR SUPERVISOR, OR THE MANUFACTURER, IF YOU DO NOT HAVE A SUPERVISOR. IF YOUR SUPERVISOR HAS ANY QUESTIONS OR DOUBTS, HE SHOULD CONSULT WITH THE MANUFACTURER BEFORE USING THE EXPLOSIVE RELATED PRODUCT.

**HAZARDOUS COMPONENTS**

<b>MATERIAL OR COMPONENT</b>	<b>CAS No.</b>	<b>TLV</b>	<b>PEL</b>
<b>SODIUM NITRATE</b>	<b>07631-99-4</b>	<b>NE</b>	<b>NE</b>
<b>EPOXY (RESIN)</b>	<b>N/A</b>	<b>NE</b>	<b>NE</b>
<b>EPOXY (HARDNER)</b>	<b>N/A</b>	<b>NE</b>	<b>NE</b>
<b>FLOUR</b>	<b>N/A</b>	<b>NE</b>	<b>NE</b>
<b>PYRODEX (P AND RS GRADE)</b>	<b>N/A</b>	<b>NE</b>	<b>NE</b>

N/A = NOT ASSIGNED    NE = NOT ESTABLISHED

**PHYSICAL DATA**

**METAL OR FIBERBOARD TUBES CONTAINING EPOXY HARDENED POWER CHARGE MIXTURE. STRONG EPOXY ODOR.**

<b>HAZARDOUS REACTIVITY</b>	
<b>INSTABILITY</b>	DETONATES WITH FRICTION, IMPACT, HEAT, LOW LEVEL ELECTRICAL CURRENT, ELECTROSTATIC OR RF ENERGY
<b>INCOMPATIBILITY</b>	ACIDS AND ALKALIS
<b>HAZARDOUS DECOMPOSITION</b>	DETONATION PRODUCES HAZARDOUS FRAGMENTS. GASES PRODUCED MAY CONTAIN CARBON MONOXIDE AND NITROGEN OXIDE.
<b>POLYMERIZATION</b>	POLYMERIZATION WILL NOT OCCUR.

<b>FIRE AND EXPLOSION DATA</b>	
<b>FLASHPOINT</b>	NOT APPLICABLE
<b>EXTINGUISHING MEDIA</b>	NONE. CONTAINS BOTH OXIDIZER AND FUEL AND CANNOT BE READILY EXTINGUISHED. FIRE FIGHTING SHOULD BE LIMITED TO PREVENTING SPREAD OF OTHER FIRES.
<b>SPECIAL FIRE FIGHTING PROCEDURES</b>	DO NOT FIGHT EXPLOSIVE FIRES. TRY TO KEEP FIRE FROM REACHING EXPLOSIVES. ISOLATE AREA. GUARD AREA.  DIVISION 1.4C EXPLOSIVES: EVACUATE AREA FOR 1500 FEET  DIVISION 1.4S EXPLOSIVES: EVACUATE AREA FOR 1500 FEET
<b>UNUSUAL FIRE AND EXPLOSION HAZARDS</b>	MAY DETONATE WITH IMPACT OR HEATING.

<b>HEALTH HAZARDS</b>	
<b>GENERAL</b>	POWER CHARGES DO NOT PRESENT HEALTH HAZARDS IN NORMAL HANDLING AND USE, HOWEVER, THE PRODUCTS ARE DIVISION 1.4C AND 1.4S EXPLOSIVES, AND DETONATION MAY CAUSE SEVERE PHYSICAL INJURY, INCLUDING DEATH. ALL EXPLOSIVES ARE DANGEROUS AND MUST BE HANDLED CAREFULLY AND USED FOLLOWING APPROVED SAFETY PROCEDURES UNDER THE DIRECTION OF COMPETENT, EXPERIENCED PERSONS IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, REGULATIONS, AND ORDINANCES.
<b>CARCINOGENICITY</b>	NONE OF THE COMPONENTS OF POWER CHARGES ARE LISTED AS A CARCINOGEN BY NTP, IARC, OR OSHA.

<b>FIRST AID</b>	
<b>INHALATION</b>	NOT A LIKELY ROUTE OF EXPOSURE. IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. SEEK PROMPT MEDICAL ATTENTION.
<b>EYE AND SKIN CONTACT</b>	NOT A LIKELY ROUTE OF EXPOSURE
<b>INGESTION</b>	NOT A LIKELY ROUTE OF EXPOSURE
<b>INJURY FROM DETONATION</b>	SEEK PROMPT MEDICAL ATTENTION

<b>SPILL OR LEAK PROCEDURES</b>	
<b>SPILL/LEAK RESPONSE</b>	USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT. ISOLATE AREA AND REMOVE SOURCES OF FRICTION, IMPACT, HEAT, LOW LEVEL ELECTRICAL CURRENT, ELECTROSTATIC OR RF ENERGY. SWEEP UP WITH NON-SPARKING TOOLS AND REMOVE FROM THE AREA.
<b>WASTE DISPOSAL</b>	DISPOSE OF IN COMPLIANCE WITH FEDERAL REGULATIONS UNDER THE AUTHORITY OF THE RESOURCE CONSERVATION AND RECOVERY ACT.

<b>SPECIAL PRECAUTIONS</b>	
KEEP AWAY FROM FRICTION, IMPACT, AND HEAT. DO NOT CONSUME FOOD, DRINK, OR TOBACCO IN AREAS WHERE THEY MAY BECOME CONTAMINATED WITH THESE MATERIALS.	

## SPECIAL PROTECTION INFORMATION

<b>VENTILATION</b>	USE ONLY WITH ADEQUATE VENTILATION
<b>RESPIRATORY</b>	NIOSH APPROVED PARTICLE MASKS FOR DUST AND MIST
<b>EYE</b>	SAFETY GLASSES OR GOGGLES
<b>GLOVES</b>	NORMAL WORK GLOVES
<b>OTHER</b>	NONE

## STORAGE CONDITIONS

STORE IN ACCORDANCE WITH THE REQUIREMENTS OF SUBPART K, ATF: EXPLOSIVES LAW AND REGULATIONS

## SHIPPING INFORMATION

<b>PROPER SHIPPING NAME</b>	CARTRIDGES, POWER DEVICE OR CARTRIDGES, OIL WELL
<b>HAZARD CLASS</b>	1.4C
<b>UN NUMBER</b>	1.4C UN0278 1.4C UN0276
<b>DOT LABEL &amp; PLACARD</b>	DOT LABEL EXPLOSIVE 1.4C DOT PLACARD EXPLOSIVE 1.4 DOT LABEL EXPLOSIVE 1.4C DOT PLACARD EXPLOSIVE 1.4

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### FOR FURTHER INFORMATION CONTACT:

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### MSDS PREPARED BY:

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Revision Date: 09-June-11