



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 Baker Hughes, 6192 AR 203 HWY, Hampton, AR 71744, 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

EX2010121109


PRODUCT DESIGNATION/PART NUMBER

Slow Set Power Charges: P/N's H437660020,
H437660010, H437660700, H437665225 and
H437660550

NOTES: None

DATED: 07/07/2011


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

| | | | |
|--|--|--------------|--|
| |  BAKER OIL TOOLS | #05 SLOW-SET | |
| | BAKER #05 SLOW-SET POWER CHARGE | | |

SHIPPING INFORMATION

| | |
|---|--|
| MODEL NO. MATERIAL NO. EXPLOSIVE TYPE OVERALL LENGTH | #05 SLOW-SET POWER CHARGE H437660550 B.H.T. STANDARD COMPOUND B.H.T. SLOW-SET COMPOUND 20.0 (REFERENCE ONLY) |
|---|--|



| | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|-----|-----------------------|--|-----------------|--------------------|--------------|----------|----------|-------------------------------------|--------------------|---------------------|---|-----|--|--|----------------------------|--|---|--|---|--|-----------|--|
| MATERIAL: BMS | | POLYMER/WELDING SPEC: | | HEAT TREAT: BHS | | COATING: BCS | | REF DWG: | | CATEGORY: 3F2-1 | | TOLERANCES FOR MACHINED SURFACES UNLESS OTHERWISE SPECIFIED .X - ± .06 CONCENTRICITY .015 TIR .XX - ± .03 INSIDE CORNERS .03-.06 R .XXX - ± .015 REMOVE ALL BURRS XX ± 2° BREAK ALL EDGES TO .015-.030 (RAD. OR 45°) SURFACE FINISH √250 MAX. THREADS √175 MAX ALL ANGLES TO BE 25°-50° ALL DIMENSIONS ARE IN INCHES CHECK HARDNESS AT STAMPED PRODUCT NUMBER LOCATION TITLE #05 SLOW-SET POWER CHARGE (SHIPPING INFORMATION) MATERIAL: (REF.) SEE ABOVE | | | | SUPERSEDES | | DATE 01-17-01 | | DRAWING NO. 760 | | PAGE 1 | |
| | | | | | | | | | | | | | | | | MATERIAL NO. H437660550 | | PRODUCT FAMILY H43766 | | 344-00 | | OF 3 | |
| | | | | | | | | | | | | DRAWN BY: C MURRAY | | CHECKED NMD | | APPROVED JHK | | | | | | | |
| | | | | | | | | | | | | | | | | | |  Baker Oil Tools | | | | | |
| | | | | | | | | | | | | | | | | | | | | © 2012 BAKER OIL TOOLS DIVISION OF BAKER HUGHES INCORPORATED THIS DOCUMENT TOGETHER WITH THE INFORMATION THEREON IS THE PROPERTY OF BAKER HUGHES INCORPORATED. (BAKER) IS CONFIDENTIAL AND IS AN UNPUBLISHED WORK. WITH ALL RIGHTS RESERVED TO BAKER. THIS DOCUMENT IS SUBJECT TO RETURN ON DEMAND. IT MAY NOT BE COPIED OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN CONSENT OF BAKER. IT MAY NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO BAKER'S INTEREST. | | | |
| DATE | REV | REVISION DESCRIPTION | | BY | CHK | APP | DATE | REV | REVISION DESCRIPTION | | BY | CHK | APP | | | | | | | | | | |
| | | | | | | | 08-06-12 | B 5 | REMOVED WEIGHT PER ECN N132-12 | | SR | DT | DG | | | | | | | | | | |
| | | | | | | | 09-06-02 | A 4 | REMOVED PROTOTYPE STAMP | | JJR | MWW | JHK | | | | | | | | | | |
| | | | | | | | 01-17-01 | A 3 | REDRAWN ON MICROSTATION FOR CLARITY | | CJM | NMD | JHK | | | | | | | | | | |
| SIZE/DIMENSIONS: | | GROSS WEIGHT: | | | UNIT OF WEIGHT: LB | | | VOLUME: | | | UNIT OF VOLUME: FT3 | | | GENERATED ON THE MicroStation CAD SYSTEM | | | | | | | | | |

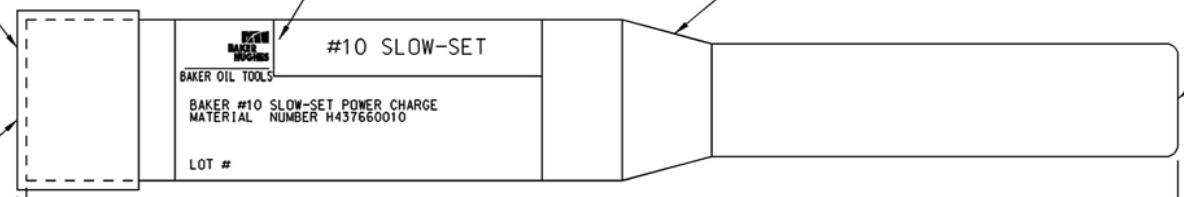
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TUBE CAP
10088872

APPLY LABEL AS SHOWN
FOR LABEL FORM SEE
DRAWING 357-510-00.3

CASE
H075629100

SEALED END



REMOVE CAP BEFORE
USE STICKER

.1 REF.


12.25 REF.

SECONDARY IGNITER
H437431000

POWER CHARGE COMPOUND

FLUSH $\pm .000$
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1 INK STAMP LOT NUMBER ON PRE-PRINTED LABEL

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|------------------|-----|-----------------------|---------------|-----------------|-----|--------------------|-----|------------------------|---------|--------------------|-----|---|-----|--------------------------|--|---|-----|--------------------|-----|----------------------|----|-----|-----|
| MATERIAL: BMS | | POLYMER/WELDING SPEC: | | HEAT TREAT: BHS | | COATING: BCS | | REF DWG: 758-759-00 | | CATEGORY: 3F2-1 | | TOLERANCES FOR MACHINED SURFACES UNLESS OTHERWISE SPECIFIED .X - $\pm .06$.XX - $\pm .03$.XXX - $\pm .015$ R - $\pm .02$ ALL ANGLES TO BE 25°-50° ALL DIMENSIONS ARE IN INCHES CHECK HARDNESS AT STAMPED PRODUCT NUMBER LOCATION | | SUPERSEDES | | DATE 06-05-01 | | DRAWING NO. 357 | | PAGE 1 | | | |
| | | | | | | | | | | | | MATERIAL NO. H437660010 | | PRODUCT FAMILY H43766 | | 451-00 | | OF 3 | | | | | |
| | | | | | | | | | | | | DRAWN BY: T. WIELAND | | CHECKED NMD | | APPROVED JHK | | | | | | | |
| | | | | | | | | | | | | TITLE #10 SLOW-SET POWER CHARGE | | | | © 2001 BAKER HUGHES INCORPORATED THIS DOCUMENT (TOGETHER WITH THE INFORMATION THEREON) IS THE PROPERTY OF BAKER HUGHES INCORPORATED. (BAKER) IS CONFIDENTIAL AND IS AN UNPUBLISHED COPYRIGHT WORK. WITH ALL RIGHTS RESERVED TO BAKER. THIS DOCUMENT IS SUBJECT TO RETURN ON DEMAND. IT MAY NOT BE COPIED OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN CONSENT OF BAKER. IT MAY NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO BAKER'S INTEREST. | | | | | | | |
| | | | | | | | | | | | | MATERIAL: LISTED (REF.) | | | |  Baker Oil Tools | | | | | | | |
| DATE | REV | REVISION DESCRIPTION | BY | CHK | APP | DATE | REV | REVISION DESCRIPTION | BY | CHK | APP | DATE | REV | REVISION DESCRIPTION | BY | CHK | APP | DATE | REV | REVISION DESCRIPTION | BY | CHK | APP |
| | | | | | | 12-12-01 | A 1 | ADDED MATERIAL NUMBER | MWW | NMD | JHK | | | | | | | | | | | | |
| SIZE/DIMENSIONS: | | | GROSS WEIGHT: | | | UNIT OF WEIGHT: LB | | | VOLUME: | | | UNIT OF VOLUME: FT3 | | | GENERATED BY THE MicroStation CAD SYSTEM | | | ASM | | | | | |

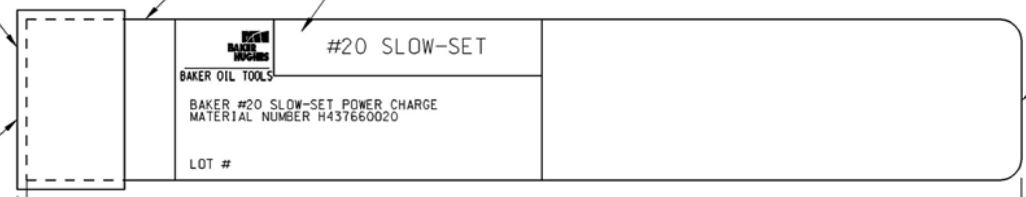
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TUBE CAP
10088872

CASE
H075834500

APPLY LABEL AS SHOWN
FOR LABEL FORM SEE
DRAWING 357-450-00.3

SEALED END



REMOVE CAP BEFORE
USE STICKER

.1 REF.

11.50 REF.

SECONDARY IGNITER
H437431000

SLOW-SET COMPOUND

FLUSH ±.000
±.090

1 INK STAMP LOT NUMBER ON PRE-PRINTED LABEL

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|---------------|-----|-----------------------|----|-----------------|-----|--------------|-----|------------------------|-----|--------------------|-----|--|
| MATERIAL: BMS | | POLYMER/WELDING SPEC: | | HEAT TREAT: BHS | | COATING: BCS | | REF DWG: 758-664-00 | | CATEGORY: 3F2-1 | | |
| DATE | REV | REVISION DESCRIPTION | BY | CHK | APP | DATE | REV | REVISION DESCRIPTION | BY | CHK | APP | |
| | | | | | | 12-12-01 | A 1 | ADDED MATERIAL NUMBER | MWW | NMD | JHK | |

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| TOLERANCES FOR MACHINED SURFACES UNLESS OTHERWISE SPECIFIED .X - ± .06 .XX - ± .03 .XXX - ± .015 XX ± 2° ALL ANGLES TO BE 25°-50° ALL DIMENSIONS ARE IN INCHES CHECK HARDNESS AT STAMPED PRODUCT NUMBER LOCATION | | SUPERSEDES | | DATE 06-12-01 | | DRAWING NO. 357 | | PAGE 1 | |
| CONCENTRICITY .015 TIR INSIDE CORNERS .03-.06 R REMOVE ALL BURRS BREAK ALL EDGES TO .015-.030 (RAD. OR 45°) SURFACE FINISH √250 MAX. THREADS √175 MAX | | MATERIAL NO. H437660020 | | PRODUCT FAMILY H43766 | | 450-00 | | OF 3 | |
| TITLE #20 SLOW-SET POWER CHARGE | | DRAWN BY: T. WIELAND | | CHECKED NMD | | APPROVED JHK | | | |
| MATERIAL: LISTED (REF.) | | © 2001 BAKER HUGHES INCORPORATED THIS DOCUMENT (TOGETHER WITH THE INFORMATION THEREON) IS THE PROPERTY OF BAKER HUGHES INCORPORATED. (BAKER) IS CONFIDENTIAL AND IS AN UNPUBLISHED COPYRIGHT WORK. WITH ALL RIGHTS RESERVED TO BAKER. THIS DOCUMENT IS SUBJECT TO RETURN ON DEMAND. IT MAY NOT BE COPIED OR REPRODUCED IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN CONSENT OF BAKER. IT MAY NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO BAKER'S INTEREST. | | | | | | | |



Baker Oil Tools

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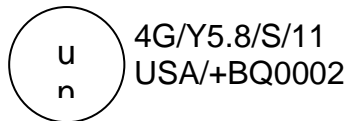
Test Report: N00102634-1
Date of Report: 24 February 2011
Date of Testing: 16 February 2011
Purchase Order Number: 4592


**DEPARTMENT OF TRANSPORTATION
PERFORMANCE ORIENTED PACKAGE TESTING
CERTIFICATION**

Performed by:
National Technical Systems
Highland Industrial Park
Building K-5
Camden, AR 71701
870-574-0031

Testing Performed for:
BHT Products
Route 1 Box 196
Hampton, AR 71744
(870)798-2486

Periodic Retesting of a Single Walled
UN 4G Fiberboard Box



Approved by:  _____ Date: February 2011
Eric Loucks, Manager Quality Assurance/Safety



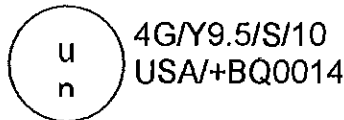
Test Report: N004043-1
Date of Report: 21 June 2010
Date of Testing: 19 June 2010
Purchase Order Number: 4250

**DEPARTMENT OF TRANSPORTATION
PERFORMANCE ORIENTED PACKAGE TESTING
CERTIFICATION**

Performed by:
National Technical Systems
Highland Industrial Park
Building K-5
Camden, AR 71701
870-574-1335

Testing Performed for:
BHT PRODUCTS
Rt 1 Box 196
Hampton, AR 71744
(870) 798-2486

Design Verification of a Single Walled
UN 4G Fiberboard Box



Approved by:  Date: 21 June 2010
Eric Loucks, Manager Quality Assurance/Safety

Approved by:  Date: 21 June 2010
Keith Dixon, Program Engineer



Explosives Notified Body, Health & Safety Laboratory, Harpur Hill, Buxton, Derbyshire, SK17 9JN, United Kingdom
Tel.: +44 (0)1298 28150 Fax.: +44 (0)1298 28180

EC TYPE EXAMINATION CERTIFICATE

NOTIFIED BODY NO: 0519

CERTIFICATE NO: ENB/P/081/04 Issue 1

- 1. Product Type:** Propellant.
- 2. Product Name:** IGNITERS AND POWER CHARGES as listed in Annex 1 to this certificate.
- 3. Manufacturer's Name and Address:** Baker Oil Tools, BHT Products, Rt. 1 Box 196, Hampton, Arkansas 71744, USA.
- 4. Applicant's Name and Address:** Baker Oil Tools, BHT Products, Rt. 1 Box 196, Hampton, Arkansas 71744, USA.
- 5. Attachments to this Certificate:** Annex 1: products covered by this certificate; Annex 2: list of technical documents examined.

Being a notified body in accordance with the GB Statutory Instrument No 2714 (1993) and Directive 93/15/EEC of 5 April 1993 on the harmonization of the provisions relating to the placing on the market and supervision of explosives for civil uses, the Explosives Notified Body certifies that the above type of product has been examined using Module B of the system for attesting conformity and has been found to conform with the manufacturer's specifications for the type and with the relevant requirements of the Statutory Instrument and the Directive.

A handwritten signature in black ink, reading "R. K. Wharton", with a long horizontal flourish underneath.

Dr R K Wharton
Head, GB Explosives Notified Body

9 February 2004

ANNEX 1 TO EC TYPE EXAMINATION CERTIFICATE ENB/P/081/04 Issue 1

Igniters

H437442200, BP-3S Primary Igniter
H437444200, BP-4S Primary Igniter
H437431000, Secondary Igniter
H437461000, E-12 Igniter

Power Charges

H437665225, #05 Low Temp Slow Set Power Charge
H437660700, #07 Slow Set Power Charge
H437660010, #10 Slow Set Power Charge
H437660020, #20 Slow Set Power Charge
H437660550, #05 Slow Set Power Charge

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufactured by: BHT PRODUCTS To the specifications of: BAKER OIL TOOLS
6192 AR Hwy 203 HOUSTON, TEXAS
HAMPTON, ARKANSAS 71744
870-798-2486

Emergency Phone Number: Chemtrec: 800-424-9300

| |
|--|
| Material Name: #05, #10 & #20 Slow Set Power Charge |
| Material Numbers: H437665225, H437660010, H437660550, H437661000, H437660020, H437662300 |
| Synonyms: None |
| Formula: Trade Secret |
| Shelf Life: 5 Years from the date of manufacture. Manufacture date is the first 6 digits of the lot number. (example: 010211XXXX 01-Month, 02-Date, 11- Year) |

2. COMPOSITION/INFORMATION ON INGREDIENTS

| Component | CAS No. | Concentration (%) |
|--------------------------|----------------|-------------------|
| Barium Chromate | 10294-40-3 | Min .8 Max 3.2 |
| Trade Secret Ingredients | Not Applicable | Min 96.8 Max 99.2 |

3. HAZARDS IDENTIFICATION

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| Emergency Overview : Danger! Contains Barium Chromate. Human Carcinogen. |
| Potential Health Effects: Can cause cancer. Signs of exposure include vomiting, violent diarrhea, abdominal pain, difficulty in breathing, slow pulse and irregular heart beat. Possible liver damage. Chronic overexposure may cause weakness, general depression, headache and mental impairment. |
| Eye: Irritant, may cause burns. |
| Skin: Irritant, may cause burns. |
| Ingestion: Poisonous, ingestion may affect the blood, central nervous system, liver and kidneys. |
| Inhalation: Component is an irritant to mucous membranes and may cause bleeding and ulceration of nasal septum, sore throat, and coughing. |
| Medical Conditions Aggravated by Exposure: Large doses may cause cardiac and respiratory failure and hemorrhages in the gastrointestinal tract and kidneys. Skin rash may also become aggravated upon exposure. |

4. FIRST AID MEASURES

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| First Aid Procedures: Remove victim from exposure area. Remove contaminated clothing and shoes. Wash affected area with soap and water. Obtain medical attention. |
| Eye: Flush eyes with running water for 15 minutes. Contact physician. |
| Skin: Flush affected area with water, wash thoroughly with soap and water. |
| Ingestion: Induce vomiting. Contact physician. |
| Inhalation: Remove to fresh air. Have victim blow nose to remove substance, but discourage sniffing. Administer oxygen if breathing is difficult. Contact physician. |
| Note to physicians: Remove chromates by gastric lavage. |

MATERIAL SAFETY DATA SHEET

5. FIRE FIGHTING MEASURES

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| Flash Point: Not applicable. | Method: Flood with water. |
| Autoignition Temperature: > 400°F | |

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| Flammability Limits in Air: Contains oxidizer and fuel, does not require air for combustion. | |
| Lower Explosive Limit (LEL): Not applicable, will not detonate. | Upper Explosive Limit (UEL): Not applicable, will not detonate. |

| | |
|----------------------------|-----------------------------------|
| NFPA Classification | |
| Health: Not Rated | Reactivity: Not Rated |
| Fire: Not Rated | Specific Hazard: Not Rated |

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| Extinguishing Media: Flood with water to cool fire and hinder propagation. | |
| Flammable Properties: Contains oxidizer and fuel. Does not require air for combustion. | Firefighting Instructions: Use unmanned water hose and withdraw from area until fire is out. If manned entrance is required, wear full protective clothing and NIOSH approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. |
| Hazardous Combustion: Combustion will produce toxic fumes (fumes may be carcinogenic). | Unusual Fire and Explosion Hazards: Combustion produces large volumes of gas. Combustion within a sealed container may result in violent rupture. |

6. ACCIDENTAL RELEASE MEASURES

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| Spill Information: Evacuate spill area until dust settles or appropriate PPE can be obtained. Do not touch or walk through spilled material. Keep ignition sources and flammable materials away from spilled material. Do not smoke. Keep material dry. If wet, absorb liquid with sand or other non-combustible material. Sweep or scoop up material into a clean, dry container and cover loosely. Move container to hazardous waste storage area and label properly. Do not use water to clean up spills or porous or wood surfaces (surface may become impregnated with material). |
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7. HANDLING AND STORAGE

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| Handling: Keep away from heat, ignition sources and flammable materials. No smoking, open sparks or open flame in area. |
| Storage: Store in dry area away from heat, ignition sources and flammable materials. Keep in closed, original shipping containers or approved magazine. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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| Engineering Controls: If handled in a confined area, insure adequate ventilation to prevent inhalation of dust. |
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MATERIAL SAFETY DATA SHEET

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| Personal Protective Equipment: PPE not required for normal use. Use when containers are damaged or excessive dust is present. |
| Respiratory: Proper respiratory protection should be determined by adequately trained personnel, based on the contaminants, degree of potential exposure and published respiratory protection factors. The equipment should be available for nonroutine and emergency use. OSHA protocol for respirator use and fit-testing should be followed. |
| Skin: Wear general purpose protective clothing and gloves to prevent contact. |
| Eye: Dust resistant safety goggles or glasses. Have eye-wash station available within immediate work area for emergency use. |

| EXPOSURE GUIDELINES | |
|--|----------------------------|
| COMPOUND | RECOMMENDED EXPOSURE LIMIT |
| | TWA |
| Soluble Barium compounds | 0.5 mg/m ³ |
| mg/m ³ = milligrams per cubic meter | |

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|--|
| Molecular Weight: No applicable information available. | pH: No applicable information available. |
| Boiling Point: No applicable information available | Specific Gravity: Not applicable |
| Melting Point: No applicable information available. | Vapor Pressure: Negligible |
| Vapor Density (air = 1): No applicable information available. | Percent Volatile: No applicable information available. |
| Solubility in Water: Insoluble | Physical State: Rubber solid with gray to dark green layer of pressed powder. |
| Appearance and Odor: Gray to green layer over gray material. Slight solvent odor. All enclosed in a black phenolic case. | Density: Not applicable |

10. STABILITY AND REACTIVITY

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| Stability: Product contains oxidizing and reducing agents and is potentially unstable. | Hazardous Polymerization: Will not occur. |
| Incompatibility: Ethanol | Hazardous Reactions/Decomposition: Ignites at high temperatures. |
| Conditions to Avoid: Extreme heat, generation of dust. | |

11. TOXICOLOGICAL INFORMATION

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|--|--|----------|-----------|
| Target Organs: Lungs, CNS, liver, kidneys and blood | Primary Routes of Entry: Inhalation or ingestion. | | |
| Product listed as a Carcinogen or Potential Carcinogen by: | | | |
| NTP: No | IARC: Yes | OSHA: No | Other: No |

MATERIAL SAFETY DATA SHEET

Component Toxicity

Considered a poison and a human carcinogen. Moderately toxic by ingestion and intraperitoneal routes. When heated to decomposition it emits toxic Nitrogen Oxide fumes.

12. ECOLOGICAL INFORMATION

No applicable information available.

13. DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with applicable regulations. Contact local environmental or health authorities for approved disposal of this material. Observe federal, state and local laws. Contaminated residue, combustion by-products and sweepings are considered hazardous waste.,

RCRA Hazard Class: No applicable information available.

14. TRANSPORT INFORMATION

DOT (Department of Transportation)

Proper Shipping Name: Cartridges, Power Device

Hazard Class: 1.4C Explosive

Identification Number: UN0276

Packing Group: II

ECCN: 1C992

15. REGULATORY INFORMATION

TSCA Components of this product are listed on the TSCA Inventory.

CERCLA No applicable information available.

SARA TITLE III

Reportable Quantity: (The reportable quantity for mixtures is based on the component with the lowest reportable quantity and its percentage in the product.)

100,000 lbs.

Section 302/304 Extremely Hazardous Substances: None

Section 313 Toxic Chemicals: Barium Compounds Min .8 % Max 3.2%

16. OTHER INFORMATION

This product is designed for use exclusively in Baker Oil Tools equipment. It must be handled only in strict compliance with published Baker Oil Tools procedures. Use of this product in other equipment or in any manner inconsistent with Baker Oil Tools published procedures may result in damage to property or personal injury. BAKER OIL TOOLS EXPRESSLY LIMITS ITS WARRANTY AND ALL OTHER RESPONSIBILITY FOR ITS PRODUCT TO USES AND FOR HANDLING CONSISTENT WITH BAKER OIL TOOLS PUBLISHED PROCEDURES.

MATERIAL SAFETY DATA SHEET

DISCLAIMER

The information, recommendations and suggestions herein were compiled from reference material and other sources believed to be reliable. However, the MSDS's accuracy or completeness is not guaranteed by BHT Products, or its affiliates, nor is any responsibility assumed or implied for any loss or damage resulting from inaccuracies or omissions. Since conditions of use are beyond our control, no warranties of merchantability or fitness for a particular purpose are expressed or implied. This MSDS is not intended as a license to operate under, or recommendation to infringe on, any patents. Appropriate warning and safe handling procedures should be provided to handlers and users.

Prepared By: BHT Products, 6192 AR Hwy 203, Hampton, AR 71744 from information furnished by Eagle Environmental Health, Inc., 4151 Southwest Freeway, Suite 410, Houston, Texas 77027

November 13, 2001

March 6, 2003 – updated

June 2006 – Reviewed

Dec 2008 – Reviewed

Dec 2009- Updated

Aug 2010 – Updated (Removed 07 slow set wording)

January 11, 2011