HALLIBURTON

MATERIAL SAFETY DATA SHEET

Product Trade Name: CHARGE, 2 3/4", PYX/BRX DP.

Revision Date: 04-Jan-2011

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name: CHARGE, 2 3/4", PYX/BRX DP.

Synonyms: None **Chemical Family:** Explosive

Application: Explosive Charge

Manufacturer/Supplier Halliburton Energy Services

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Duncan, Oklahoma 73536-0431

Emergency Telephone: (281) 575-5000

Prepared By Chemical Compliance

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Substances	CAS Number	PERCENT	ACGIH TLV-TWA	OSHA PEL-TWA
1,3,5-Trinitro-2,4,6- tripicrylbenzene (BRX)	Mixture	NF	Not applicable	Not applicable
2,6-Bis(picrylamino)-3,5-dinitro- pyridine (PYX)	38082-89-2	0-10	Not applicable	Not applicable
Tin	7440-31-5	NF	2 mg/m ³	2 mg/m ³
Antimony	7440-36-0	NF	0.5 mg/m ³	0.5 mg/m ³
Lead	7439-92-1	NF	0.05 mg/m ³	0.05 mg/m ³
Desensitizing wax	Mixture	NF	Not applicable	Not applicable
Corrosion resistant steel	Mixture	NF	Not applicable	Not applicable
Aluminum	7429-90-5	NF	10 mg/m ³	15 mg/m ³
Copper	7440-50-8	NF	1 mg/m ³	1 mg/m ³
Iron oxide	1309-37-1	NF	5 mg/m ³	10 mg/m ³

3. HAZARDS IDENTIFICATION

Hazard Overview Explosive. May cause eye, skin, and respiratory irritation. May cause headache,

dizziness, and other central nervous system effects. May be harmful if swallowed.

4. FIRST AID MEASURES

Inhalation If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably

mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.

Skin Wash with soap and water. Get medical attention if irritation persists.

Eyes In case of contact, or suspected contact, immediately flush eyes with plenty of water

for at least 15 minutes and get medical attention immediately after flushing.

Ingestion Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek

medical attention. Never give anything by mouth to an unconscious person.

Notes to Physician Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flash Point/Range (F):

Flash Point/Range (C):

Not Determined

Flammability Limits in Air - Lower (%):

Not Determined

Not Determined

Not Determined

Not Determined

Not Determined

Fire Extinguishing Media None. Do NOT fight fire. Isolate area and evacuate personnel to a safe area. Guard

against intruders. Allow fire to burn itself out.

Special Exposure Hazards May detonate with impact or on heating. May explode and throw fragments 1 mile or

more in fire. Evacuate all persons, including emergency responders.

Special Protective Equipment for Not applicable.

Fire-Fighters

NFPA Ratings:

HMIS Ratings:

Health 1, Flammability 3, Reactivity 4 Health 1, Flammability 3, Reactivity 4

ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures Use appropriate protective equipment. Use only competent persons for cleanup.

Environmental Precautionary

Measures

Prevent from entering sewers, waterways, or low areas.

Procedure for Cleaning /

Absorption

Isolate area and remove sources of friction, impact, heat, low level electrical current,

and RF energy. Remove ignition sources and work with non-sparking tools.

7. HANDLING AND STORAGE

Handling Precautions Do NOT consume food, drink, or tobacco in contaminated areas. Avoid contact with

eyes, skin, or clothing. Wash hands after use. Launder contaminated clothing before

reuse.

Storage Information Store only in ATF approved magazines. Keep away from friction, impact, and heat.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls Use in a well ventilated area.

Respiratory Protection Dust/mist respirator. (95%)

Hand Protection Cloth gloves.

Skin Protection Cotton coveralls, undergarments, and socks. Conductive soled shoes.

Eye Protection Wear safety glasses or goggles to protect against exposure.

Other Precautions None known.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:SolidColor:MetallicOdor:Odorless

Not Determined Specific Gravity @ 20 C (Water=1): Not Determined Density @ 20 C (lbs./gallon): Not Determined Bulk Density @ 20 C (lbs/ft3): Not Determined **Boiling Point/Range (F):** Not Determined **Boiling Point/Range (C):** Not Determined Freezing Point/Range (F): Not Determined Freezing Point/Range (C): Not Determined Vapor Pressure @ 20 C (mmHg): Not Determined Vapor Density (Air=1): Not Determined **Percent Volatiles:** Not Determined **Evaporation Rate (Butyl Acetate=1):** Not Determined Solubility in Water (g/100ml): Insoluble

Solubility in Solvents (g/100ml):

VOCs (lbs./gallon):

Viscosity, Dynamic @ 20 C (centipoise):

Viscosity, Kinematic @ 20 C (centistrokes):

Partition Coefficient/n-Octanol/Water:

Molecular Weight (g/mole):

Not Determined

Not Determined

10. STABILITY AND REACTIVITY

Stability Data: Stable

Hazardous Polymerization: Will Not Occur

Conditions to Avoid May detonate with friction, impact, heat, and low level electrical current.

Incompatibility (Materials to

Avoid)

Strong acids. Strong alkalis.

Hazardous Decomposition

Products

Shrapnel. Oxides of nitrogen. Metal oxides. Carbon monoxide and carbon dioxide.

Additional Guidelines Not Applicable

11. TOXICOLOGICAL INFORMATION

Principle Route of Exposure Eye or skin contact, inhalation. Product does not present exposures health hazards

during normal handling and use. However, this product is an explosive material and uncontrolled detonation may cause severe physical injury including death. All explosives are dangerous and must be handles carefully and used following

approved safety procedures under the direction of competent, experience persons in

accordance with all applicable regulations and ordinances.

Inhalation May cause effects to the blood and blood system. May cause central nervous system

depression including headache, dizziness, drowsiness, incoordination, slowed

reaction time, slurred speech, giddiness and unconsciousness.

May cause damage to the nervous, urinary, and reproductive systems. Nitrogen

oxides generated during use are irritating to the respiratory system.

Skin ContactMay be absorbed through the skin and contribute to the symptoms listed under

ingestion. Nitrogen oxides generated during use are skin irritants.

Eye Contact May cause eye irritation.

Ingestion May cause abdominal pain, vomiting, nausea, and diarrhea.

Aggravated Medical Conditions None known.

Chronic Effects/Carcinogenicity Prolonged or repeated exposure may cause blood forming system, nervous, urinary

tract and reproductive system damage. Prolonged or repeated exposure may cause

embryo and fetus toxicity.

Other Information None known.

Toxicity Tests

Oral Toxicity: Not determined

Dermal Toxicity: Not determined

Inhalation Toxicity: Not determined

Primary Irritation Effect: Not determined

Carcinogenicity Not determined

Genotoxicity: Not determined

Reproductive / Developmental Toxicity:

Not determined

12. ECOLOGICAL INFORMATION

Mobility (Water/Soil/Air) Not determined

Persistence/Degradability Not applicable

Bio-accumulation Not determined

Ecotoxicological Information

Acute Fish Toxicity: Not determined Acute Crustaceans Toxicity: Not determined Acute Algae Toxicity: Not determined

Chemical Fate Information Not determined

Other Information Not applicable

13. DISPOSAL CONSIDERATIONS

Disposal MethodDisposal should be made in accordance with federal, state, and local regulations.

Contaminated Packaging Do NOT reuse container. Store only in ATF approved magazines.

14. TRANSPORT INFORMATION

Land Transportation

DOT

UN0441, Charges, Shaped, 1.4S, II EX-8907036

Canadian TDG

Charges, Shaped, 1.4S, UN0441, II EX-8907036

ADR

UN0441, Charges, Shaped, 1.4S, II EX-8907036

Air Transportation

ICAO/IATA

UN0441, Charges, Shaped, 1.4S, II EX-8907036

Sea Transportation

IMDG

UN0441, Charges, Shaped, 1.4S, II EX-8907036 EmS F-B, S-X

Other Shipping Information

Labels: Explosive 1.4S

15. REGULATORY INFORMATION

US Regulations

US TSCA Inventory All components listed on inventory or are exempt.

EPA SARA Title III Extremely Hazardous Substances

Not applicable

EPA SARA (311,312) Hazard

Class

Acute Health Hazard

Fire Hazard

Sudden Release of Pressure Hazard

EPA SARA (313) ChemicalsThis product contains toxic chemical(s) listed below which is(are) subject to the

reporting requirements of Section 313 of Title III of SARA and 40 CFR Part 372:

Lead//7439-92-1 Copper//7440-50-8

EPA CERCLA/Superfund Reportable Spill Quantity

EPA Reportable Spill Quantity is 400 Pounds based on Lead (CAS: 7439-92-1).

EPA RCRA Hazardous Waste Classification

If product becomes a waste, it does meet the criteria of a hazardous waste as defined by the US EPA, because of:

Reactivity D003

California Proposition 65 The California Proposition 65 regulations apply to this product.

MA Right-to-Know Law
One or more components listed.

NJ Right-to-Know Law
One or more components listed.

PA Right-to-Know Law
One or more components listed.

Canadian Regulations

Canadian DSL Inventory All components listed on inventory.

WHMIS Hazard Class F Dangerously Reactive Material

16. OTHER INFORMATION

The following sections have been revised since the last issue of this MSDS Not applicable

Additional Information

For additional information on the use of this product, contact your local Halliburton

representative.

For questions about the Material Safety Data Sheet for this or other Halliburton

products, contact Chemical Compliance at 1-580-251-4335.

Disclaimer Statement

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END OF MSDS