

SAFETY DATA SHEET

| | |
|------------------|-------------------------------------------|
| SECTION 1 | PRODUCT AND COMPANY IDENTIFICATION |
|------------------|-------------------------------------------|

PRODUCT

Product Name: IMPLO® (formerly Xeconex™) implosive connector

Product Description: Plastic-covered detonating cord (odorless) surrounding an outer Aluminum sleeve or an outer steel sleeve. Inside the aluminum sleeve, based on the application, there might be an aluminum filler tube and a smaller steel sleeve.

Intended Use: Implosive Compression connector used to splice or dead end overhead conductors used in high voltage transmission lines.

COMPANY IDENTIFICATION

Supplier: **BURNDY LLC**
47 East Industrial
Park Drive
Manchester, NH 03109 USA

24 Hour Emergency (INFOTRAC) (800) 535-5053 (*US and Canada*)
(352) 323-3500 (*International*)

Burndy Informational Number (nonemergency assistance) (603) 647-5000



Additional Note: In case of emergency (within Canada) call (877) 378-7745 or (647) 329-1040 to activate ERAP # ERP2-1837

| | |
|------------------|-------------------------------|
| SECTION 2 | HAZARDS IDENTIFICATION |
|------------------|-------------------------------|

CLASSIFICATION:

| Health | Environmental | Physical |
|-------------------------|-------------------------|-------------------------------|
| No classifiable hazards | No classifiable hazards | Flammable solids – Category 1 |

LABELLING:

| | |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |
| Explosive | Flammable solid |

Signal word: Explosive, Danger

Product Name: **IMPLO® (formerly Xeconex™) implosive connector**

Revision Date: 5 January 2017 (rev E)

Page 2 of 5

| Hazard Statements | Precautionary Statements |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>H201: Explosive; mass explosion hazard.</p> <p>Risk Phrase:</p> <p>R2: Risk of explosion by shock, friction, fire or other sources of ignition.</p> | <p>P201: Obtain special instructions before use.</p> <p>P202: Do not handle until all safety precautions have been read and understood.</p> <p>P210: Keep away from heat, sparks, open flame, hot surfaces - No smoking.</p> |

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

| Name | Common synonym | CAS# | Percentage | Impurities |
|----------------------------------------|-------------------------------------|---------|------------|------------|
| Detonating Cord | Pentaerythritol Tetranitrate (PETN) | 78-11-5 | - | - |
| Aluminum Sleeve | - | - | - | - |
| Galvanized low carbon steel sleeve | - | - | - | - |
| Polyvinyl chloride (protective sleeve) | - | - | - | - |

SECTION 4 FIRST AID MEASURES

EFFECTS OF OVEREXPOSURE: Ingestion of PETN may cause headache and nausea. PETN is a vasodilator and produces dilation of blood vessels.

IF EXPOSED TO FUMES: Remove to fresh air.

IF INGESTED: Obtain medical attention immediately.

SECTION 5 FIRE FIGHTING MEASURES

FIRE FIGHTING PROCEDURES: Do not fight fires. Evacuate area promptly. Allow fire to burn itself out.

OTHER FIRE OR EXPLOSION HAZARDS: May explode when subjected to fire or shock. Avoid toxic fumes from fire.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Steps to be taken in the event of a spill or leak: Spillage or release very unlikely for finished articles. Stop and contain spill. Do not permit smoking or open flames near spill site. Mix any spilled material with sawdust, using non-sparking tools, for disposal by burning.

SECTION 7 HANDLING AND STORAGE

Precautions: These products are explosives and should be used under the supervision of an experienced blaster. Meet all legal requirements for shipping, storage and handling.

Handling procedures and equipment: Keep clear during detonation. Avoid inhaling fumes.

Storage temperature: Ambient Temperatures. The maximum recommended temperature for detonating cord is 160deg F (71deg. C).

Storage requirements: Store only under specific license from regulatory body in an approved magazine only.

Product Name: **IMPLO® (formerly Xeconex™) implosive connector**

Revision Date: 5 January 2017 (rev E)

Page 3 of 5

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMIT VALUES

Exposure limits/standards (Note: Exposure limits are not additive)

| Component Name | CAS # | TWA/STEL | OSHA PEL(ppm) | ACGIH TLV(ppm) | Note |
|------------------|------------|----------|---------------|----------------|------|
| Nitrogen Dioxide | 10102-44-0 | - | 5 ppm ceiling | 0.2 ppm | - |
| Nitric Oxide | 10102-43-9 | - | 25 ppm | 25 ppm | - |
| Carbon Monoxide | 630-08-0 | - | 50 ppm | 25 ppm | - |

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Typical physical and chemical properties are given below. Consult the Supplier in Section 1 for additional data.

GENERAL INFORMATION

Physical State: Solid

IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION

Flash Point [Method]: Not Applicable

Auto ignition Temperature: PETN ignition at 205-225°C

Flammability Limits in Air (%): Not Applicable

SECTION 10 STABILITY AND REACTIVITY

Under Normal Conditions: Stable

Under Fire Conditions: Burns

Hazardous Polymerization: Will not occur

Conditions to Avoid: Excessive conditions of shock, impact or fire.

Materials to Avoid: Avoid contact with strong acids or alkalis.

Hazardous Decomposition products: NO, NO₂, CO (PETN detonation products)

SECTION 11 TOXICOLOGICAL INFORMATION

Toxicological Data: This is a manufactured article and may release hazardous products during detonation. Detonation products include NO, NO₂ and CO.

SECTION 12 ECOLOGICAL INFORMATION

Environmental Effects: These materials are extremely insoluble in water. Furthermore, they are chemically stable.

SECTION 13 DISPOSAL CONSIDERATIONS

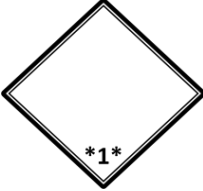
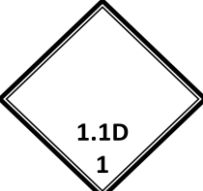
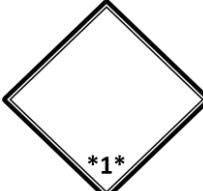
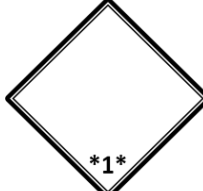
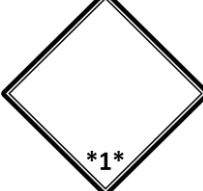
Waste Disposal Methods: Burn under supervision of an expert at approved explosives burning ground in accordance with local, provincial, state and federal regulations. Call upon the services of Burndy Representative.

Product Name: **IMPLO® (formerly Xeconex™) implosive connector**

Revision Date: 5 January 2017 (rev E)

Page 4 of 5

SECTION 14 TRANSPORTATION

| Regulatory Information | UN Number | Proper Shipping Name | Hazard Class | Packing Group | Label(s) | RQ | Additional Information |
|------------------------|-----------|--------------------------------------------------|--------------|---------------|---------------------------------------------------------------------------------------|----|--------------------------------------------------------------------------------------------------------------------------|
| US DOT | UN0442 | Charges, Explosive, Commercial without detonator | 1.1D | II |  | - | Reference Number: EX1994030148 |
| TDG | UN0442 | Charges, Explosive, Commercial without detonator | 1.1D | II |  | - | Packing method: CGSB-43.151 UN 137 Areas of coverage: British Columbia, Alberta, Saskatchewan, Manitoba, Ontario, Quebec |
| ADR | UN0442 | Charges, Explosive, Commercial without detonator | 1.1D | II |  | - | |
| IATA | UN0442 | Charges, Explosive, Commercial without detonator | 1.1D | II |  | - | |
| IMDG | UN0442 | Charges, Explosive, Commercial without detonator | 1.1D | II |  | - | |

Product Name: **IMPLO® (formerly Xeconex™) implosive connector**
Revision Date: 5 January 2017 (rev E)
Page 5 of 5

SECTION 15 REGULATORY INFORMATION

COMPLY WITH ALL REQUIREMENTS (FEDERAL AND STATE/PROVINCE AND LOCAL) FOR TRANSPORTATION, STORAGE AND USE REGULATIONS AND ORDINANCES.

OSHA HAZARD COMMUNICATION STANDARD: When used for its intended purpose, this material is classified as hazardous in accordance with OSHA 29CFR 1910.1200.

EU RISK (R) AND SAFETY (S) PHRASES:

Danger Symbol: E Explosive
Risk phrases: R2 Risk of explosion by shock, friction, fire or other sources of ignition
Safety Phrases: S2 Keep out of reach of children

SECTION 16 OTHER INFORMATION

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) RATINGS:

Health – 0 Flammability - 1 Reactivity-0

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS) RATINGS:

Health – 0 Flammability - 1

THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:

| Revision Date | Description | Sections Affected |
|---------------|-----------------------|-------------------|
| - | MSDS version | - |
| 08/17/2012 | Update | - |
| 03/27/2013 | SDS version written | 1-16 |
| 02/25/2014 | Version number update | 1-16 |
| 01/05/2017 | Update | 8 |
| | | |

This SDS provides a good faith representation of information believed to be accurate as of the last revision date. This document does not create any express or implied product warranties. Since conditions of use are beyond the control of Burndy LLC, all risks associated with product use are assumed by the user.
