

Technology Safety Data Sheet

Bartlett Super Sleever

Section 1: Technology Identity

Technology Name(s):		Emergency Contact:	
Bartlett Super Sleever		Craig T. Conner Telephone: (208) 526-3090	
Manufacturer's Name and Address:		Information Contact:	
Bartlett Nuclear Bartlett Services Inc. 60 Industrial Park Road Plymouth, MA 02360		Craig C. Conner, Test Engineer Idaho National Engineering & Environmental Laboratory Environmental Remediation Technologies P.O. Box 1625 Idaho Falls, ID 83415-3710 Telephone: (208) 526-3090	
Date Prepared:	August, 2002	Date Revised:	Not yet revised

Section 2: Technology Pictures



Figure 1: Bartlett Super Sleever.



Figure 2: Engineer Demonstrating Sealing of Cable after Sleeving is completed.



Figure 3: Workers Demonstrating Manual Sleeving of Cable.



Figure 4: Engineer Preparing the Sleeve for the Super Sleever.

Section 3: Technology Description

The Bartlett Super Sleever is a tubular device approximately four feet long and eight inches in diameter made of aluminum. It is used to sleeve cords, hoses, cables, and air lines prior to use in contaminated areas. The sleeving is shirred (gathered in fine folds) onto disposable cardboard tubes that are inserted into the sleeving tool. The front end of the hose or cable is passed through the cardboard tube and taped to the free end of the sleeving. The hose or cord is then pulled through the tube at a rate of up to two hundred feet per minute. The sleeving is cut and taped to the back end of the hose or cord. It is lightweight. A worker can carry the unit easily by the handle with the sleeving inserted in the unit.

This operation reduces the sleeving time from days and hours to minutes. This technology reduces the repetitive hand motions of grasping, pulling, pushing, and lifting required in manual sleeving of various types of tethers. Manual sleeving is often done using personal protective equipment (PPE), which can increase the ergonomic stresses to the hands and wrists.

Section 4: Safety Hazards

Hazard Category:

(Adapted from Appendix A to MIL-STD-882D, February 10, 2000, Department of Defense Standard Practice for System Safety.)

- 4 - Could result in death or permanent total disability
- 3 - Could result in permanent partial disability or injuries or occupational illness that may result in hospitalization of at least three persons
- 2 - Could result in injury or occupational illness resulting in one or more lost work days
- 1 - Could result in injury or illness not resulting in a lost work day
- N/A - Is not applicable to this technology and poses no appreciable risk

A. Buried Utilities, Drums, and Tanks	Hazard Rating: N/A
Not applicable to this technology and poses no appreciable risk.	
B. Chemical (Reactive, Corrosive, Pyrophoric, etc)	Hazard Rating: N/A
Not applicable to this technology and poses no appreciable risk. Site-specific use should be evaluated to determine any potential chemicals.	
C. Confined Space	Hazard Rating: N/A
Not applicable to this technology and poses no appreciable risk.	
D. Electrical	Hazard Rating: N/A
Not applicable to this technology and poses no appreciable risk.	
E. Explosives	Hazard Rating: N/A
Not applicable to this technology and poses no appreciable risk.	
F. Fire Protection	Hazard Rating: N/A
Not applicable to this technology and poses no appreciable risk.	
G. Gas Cylinders	Hazard Rating: N/A
Not applicable to this technology and poses no appreciable risk.	
H. Ladders/Platforms	Hazard Rating: N/A
Not applicable to this technology and poses no appreciable risk.	
I. Lockout/Tagout	Hazard Rating: N/A
Not applicable to this technology and poses no appreciable risk.	
J. Mechanical Hazards	Hazard Rating: N/A
Not applicable to this technology and poses no appreciable risk.	
K. Moving Vehicles	Hazard Rating: N/A
Not applicable to this technology and poses no appreciable risk.	
L. Overhead Hazards	Hazard Rating: N/A
Not applicable to this technology and poses no appreciable risk.	

M. Pressure Hazards	Hazard Rating: N/A
Not applicable to this technology and poses no appreciable risk.	
N. Slips/Trips/Falls	Hazard Rating: N/A
Not applicable to this technology and poses no appreciable risk.	
O. Suspended Loads	Hazard Rating: N/A
Not applicable to this technology and poses no appreciable risk.	
P. Trenching/Excavation	Hazard Rating: N/A
Not applicable to this technology and poses no appreciable risk.	
Section 5: Health Hazards	
A. Inhalation	Hazard Rating: N/A
Not applicable to this technology and poses no appreciable risk; however, site-specific use will determine any monitoring required for worker protection.	
B. Skin Absorption	Hazard Rating: N/A
Not applicable to this technology and poses no appreciable risk; however, site-specific use will determine any monitoring required for worker protection.	
C. Noise	Hazard Rating: N/A
Not applicable to this technology and poses no appreciable risk.	
D. Heat Stress/Cold Stress	Hazard Rating: N/A
Not applicable to this technology and poses no appreciable risk. Site-specific use may require the use of PPE, therefore, heat or cold stress may be possible if outside during hot or cold weather.	
E. Ergonomics	Hazard Rating: 1
The unit is light enough to be hand held during the operation. If the cable or hose being sleeved binds in the inlet to the unit, it is possible for the worker to be jerked when the cable binds. The use of proper ergonomic position or the use of another worker to manage the feed will eliminate this concern.	
F. Ionizing Radiation	Hazard Rating: N/A
Not applicable to this technology and poses no appreciable risk. It is intended for use in contaminated areas, consequently, site-specific requirements for worker protection should be followed.	

G. Non-ionizing Radiation	Hazard Rating: N/A
Not applicable to this technology and poses no appreciable risk.	
H. Biological Hazards	Hazard Rating: N/A
Not applicable to this technology and poses no appreciable risk.	
I. Other	Hazard Rating: N/A
None	
Section 6: Phase Analysis	
A. Construction/Start-up	
Insert sleeving cartridge into unit and lock in position with locking mechanism.	
B. Operation	
Insert cable or hose to be sleeved into end and secure the unit either mechanically or manually. When pulling cable/hose through, manage the hose or cable to be sleeved so that it does not bind during the operation, thus, preventing the unit from being jerked.	
C. Maintenance (Emergency and Routine)	
None	
D. Shutdown (Emergency and Routine)	
None	
E. Decontamination/Decommissioning	
The technology will likely be used in facilities or areas contaminated with or containing radioactive materials, consequently, the unit could become contaminated. Workers handling equipment that was used in a contaminated area could possibly handle contaminated surfaces, resulting in exposure. Methods and procedures for equipment decontamination should be addressed before the operator uses the Super Sleever in a contaminated area.	
Section 7: Worker Protection Measures	
A. Exposure Monitoring	
Radiological monitoring depends on the characteristics of the area where task is performed.	
B. Worker Training	
Workers should be trained on the proper use of the unit.	

C. Medical Surveillance

There are no additional medical requirements beyond existing site-specific requirements.

D. Engineering Controls

None

E. Administrative Controls

None

F. Personal Protective Equipment

PPE depends on the characteristics of the area where task is performed.

Section 8: Emergency Preparedness

Site-specific requirements should be met.

Section 9: Comments, Lessons Learned, & Special Considerations

None

This Technology Safety Data Sheet Was Prepared By:

Team Leader:

John J. Kovach, MS,
Operating Engineers National Hazmat Program
3775 Morgantown Industrial Park
Morgantown, WV 26501
(304) 284-9129 FAX: (304) 284-9130

Team Members:

Jeana Harrison
3775 Morgantown Industrial Park
Morgantown, WV 26501
(304) 284-9129 FAX: (304) 284-9130

Chip Booth, MS; David Curry, Operating Engineer
Operating Engineers National Hazmat Program
1293 Airport Avenue
Beaver, WV 25813
(304) 253-8674 FAX: (304) 253-1384

Copies of this Technology Safety Data Sheet and others developed by the Operating Engineers National Hazmat Program can be found on the internet at: www.iuoeiettc.org.