

Quality People. Building Solutions.

Comfort Systems USA (Arkansas), Inc. P.O. Box 16620 Little Rock, AR 72231 Phone 501-834-3320 Fax 501-834-5416

Date: 10/3/2023 Return Request: 10/13/2023 Project: Regions HNTB Supplier: Comfort Systems USA (Arkansas), Inc. Manufacturer: Hilti Submittal: Firestopping Submittal Number: 23 00 00-10 Drawing # and Installation: Mechanical Drawings

ARCHITECT

DLR Group 2525 McKinnon St. Suite 800 Dallas, TX 75067 214-747-2511

GENERAL CONTRACTOR

Baldwin & Shell 1000 W. Capitol Ave. Little Rock, AR 72201 501-374-8677

Notes:

ENGINEER

Pettit & Pettit 201 East Markham, Suite 400 Little Rock, AR 72201 501-374-3731

MECHANICAL SUBCONTRACTOR

Comfort Systems USA (Arkansas), Inc. 9924 Landers Rd. N. Little Rock, AR 72117 501-834-3320

CSUSA PROJECT NO. 23-2014 chowell@comfortar.com

FS-ONE High Performance Intumescent **Firestop Sealant**

Product description

Intumescent (expands when exposed to fire) firestop sealant that helps protect combustible and non-combustible penetrations for up to 4 hours fire rating

Product features

- Smoke, gas and water resistant after material has cured
- Contains no halogen, solvents or asbestos
- High fire rating properties
- Water based, easy to clean
- Protects most typical firestop penetration applications
- Paintable
- Single component systems available
- Meets LEED[™] requirements for indoor environmental quality credit 4.1 Low Emitting Materials, Sealants and Adhesives and 4.2 Paints and Coatings

Areas of application

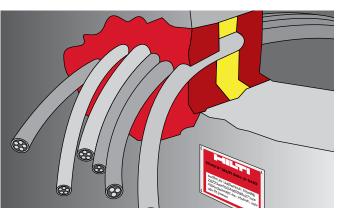
- Steel, copper and EMT pipes
- Insulated steel and copper pipes
- Cable bundles
- Closed or vented plastic pipes
- HVAC penetrations

For use with

- Concrete, masonry, drywall and wood floor assemblies
- Wall and floor assemblies rated up to 4 hours

Examples

- Sealing around combustible pipe penetrations in fire rated construction
- Sealing around non-combustible penetrations in fire rated construction



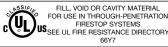
Technical Data*	FS-ONE
Chemical basis	Water-based intumescent acrylic dispersion
Color	Red
Application temperature	40°F to 104°F (5°C to 40°C)
Skin forming time	Approx. 20-30 min.
Curing time	Approx. 2 mm / 3 days
Movement capability	Approx. 5%
Expansion rate (unrestricted)	Up to 3-5 times original volume
Temperature resistance (cured)	-40°F to 212°F (-40°C to 100°C)
Surface burning characteristics	Flame Spread: 0
(ASTM E 84-96)	Smoke Development: 5
Sound transmission classification (ASTM E 90-99)	56 (Relates to specific construction)
Approvals	*

- California State Fire Marshal No. 4485-1200:108
- City of New York MEA 326-96-M Vol. IV

Tested in accordance with

• ASTM E 84 • UL 1479 • ASTM E 814

*At 73°F (23°C) and 50% relative humidity





Installation instructions for FS-ONE

Notice

- Before handling, read Material Safety Data Sheet and product label for safe usage and health information.
- Instructions below are general guidelines always refer to the applicable drawing in the UL Fire Resistance Directory or Hilti Firestop Systems Guide for complete installation information

Opening

1. Clean the opening. Surfaces to which FS-ONE will be applied should be cleaned of loose debris, dirt, oil, moisture, frost and wax. Structures supporting penetrating items must be installed in compliance with local building and electrical standards.

Application of firestop sealant

- Install the prescribed backfilling material type and 2 depth to obtain the desired rating (if required). Leave sufficient depth for applying FS-ONE.
- 3. Application of firestop sealant: Apply FS-ONE to the required depth in order to obtain the desired fire rating. Make sure FS-ONE contacts all surfaces to provide maximum adhesion. For application of FS-ONE use a standard caulking gun, foil pack gun, bulk loader and bulk gun. With FS-ONE buckets, Graco type sealant pumps may be used. (Contact pump manufacturer for proper selection).

- 4. Smoothing of firestop sealant: To complete the seal, tool immediately to give a smooth appearance. Excess sealant, prior to curing, can be cleaned away from adjacent surfaces and tools with water.
- 5. Leave completed seal undisturbed for 48 hours.
- 6. For maintenance reasons, a penetration seal could be permanently marked with an identification plate. In such a case, mark the identification plate and fasten it in a visible position next to the seal.

(If required)

2. Pack mineral wool.

(If required)

Not for use

- High movement expansion joints
- Underwater

ean opening

- On materials where oil, plasticizers or solvents may bleed i.e. impregnated wood, oil based seals, green or partially vulcanized rubber
- In any penetration other than those specifically described in this manual or the test reports

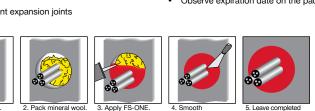
APPROVED

Storage

Smooth

ES-ONE

- Store only in the original packaging in a location protected from moisture at temperatures between 40°F (5°C) and 86°F (30°C)
- Observe expiration date on the packag









3. Apply FS-ONE Smooth FS-ONE 5. Leave completed 6. Fasten identification al undisturbed for plate (if required)

48 hours. Hilti. Outperform. Outlast.

Firestop Collar (CP 643N)

Product description

A ready-to-use firestop collar, made of a galvanized steel housing and intumescent inserts for firestopping combustible pipes

Product features

- Ready-to-use collar
- No construction required
- Fast installation time
- Adjustable mounting tabs
- Low profile for tight installations

Areas of application

- Firestopping combustible pipes up to 6" diameter in penetrations through fire walls and floors
- Suitable for the following pipe materials:
- PVC, CPVC, ABS, PVDF, PP and FRPP

For use with

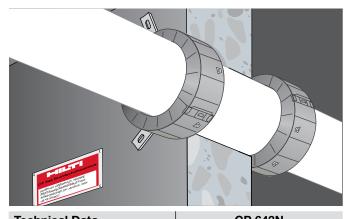
- Concrete, masonry, wood floor and gypsum wall assemblies
- Wall and floor assemblies rated up to 4 hours

Types of installation

- Wall: two collars, one on each side
- Floor: one collar on underside (bottom)

Example

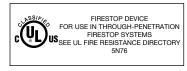
- Waste water pipes
- Fresh water pipes



Technical Data		CP 643N		
Description	Pipe outside dia (in.)	Collar outside dia. (in.)	Collar Height (in.)	No. of hooks and fasteners
CP 643-50/1.5"N	1.4-2.0	2.8	0.9	2
CP 643-63/2"N	2.0-2.5	3.4	1.3	2
CP 643-90/3"N	2.6-3.6	4.9	1.7	3
CP 643-110/4"N	3.6-4.5	6.0	1.9	3
CP 643-160/6"N	6.6	9.8	1.9	4
Temperature resistance -40°F to 140°F (-40°C to 6		C to 60°C)		
Intumescent activation Approx. 392°F (200°C		00°C)		
Expansion ratio (unr	estricted)		Up to 1:10	
Tested in accordance	e with			

Tested in accordance wit

• UL 1479 • ASTM E 814 • ASTM G21





Installation instructions for CP 643N

Notice

- Before handling, read Material Safety Data Sheet and product label for safe usage and health information.
- Instructions below are general guidelines always refer to the applicable drawing in the UL Fire Resistance Directory or Hilti Firestop Systems Guide for complete installation information

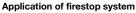
Opening

 Clean the plastic pipes. Expansion of the intumescent material during a fire acts to close the plastic pipe. Very dirty pipes (ie: with remains of mortar) may lead to a delay in this closing action. Soiled plastic pipes should, therefore, be cleaned in the area where the CP 643N Firestop Collar is to be installed.

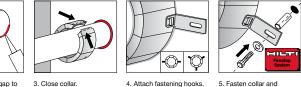


1. Clean plastic pipe.

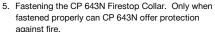
 Close remaining gap to provide smoke and gas resistant seal.



- Seal the opening if required. Gaps may be closed with FS-ONE. The approved methods vary and are given in the specific UL system.
- Close the CP 643N Firestop Collar. Place the CP 643N Firestop Collar around the plastic pipe and lock the closure by applying firm pressure until it latches.
- 4. Attach fastening hooks. The fastening hooks can be attached to various points on the metal housing. This allows the fastening points to be made to suit the space available in each case. The hooks must be positioned as symmetrically as possible. The required number of fastening hooks is indicated on the packaging.



5. Fasten collar and identification plate (if required).



- a. Mark the fastening points.
- Drill holes with a Hitti rotary hammer drill (i.e. TE 4-A18) or, depending on base material, fasten using Hitti powder-actuated tool.
- c. To secure the CP 643N Firestop Collar, use Hilti anchors/fasteners.
- d. For maintenance reasons, a penetration can be permanently marked with an identification plate and fastened in a visible position next to the seal.

Not for use

- With metal pipes
- In highly corrosive surroundings
- With unapproved anchors/fasteners

Storage

 Store only in the original packaging in a location protected from moisture



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stening the CP 643N Firestop Collar. Only when

Firestop Collar (CP 644)

Product description

A ready-to-use firestop collar, made of galvanized steel housing and intumescent inserts for firestopping large combustible pipes

Product features

- Ready-to-use collar
- No construction required
- Fast installation time
- Adjustable/moveable fastening tabs

Areas of application

- Sealing of penetrations for combustible pipes from 8" to 10" in diameter
- Vented or closed pipe
- PVC or CPVC pipe

For use with

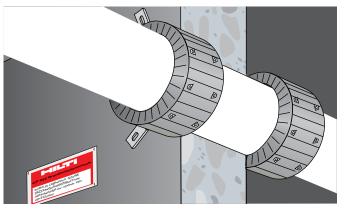
- Concrete, masonry, and gypsum walls
- Wall and floor assemblies rated up to 2 hours

Types of installation

- Wall: two collars, one on each side
- Floor: one collar on underside (bottom)

Examples

- Waste water pipes
- Fresh water pipes



Technical Data CP 644				
Description	Pipe outside dia (in.)	CollarCollarNo. ofoutsideHeighthooks atdia. (in.)(in.)fastened		
CP 644-200/8"	8.8	10.0	6.9	10
CP 644-250/10"	10.8	12.4	9.1	12
Temperature resistance	ce	-40°F to 140°F (-40°C to 60°C)		C to 60°C)
Intumescent Activatio	n	Approx. 392°F (200°C)		200°C)
Expansion ratio (unres	stricted)	Up to 1:10		

Tested in accordance with

• UL 1479 • ASTM E 814 • ASTM G21



Installation instructions for CP 644

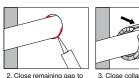
Notice

- Before handling, read Material Safety Data Sheet and product label for safe usage and health information.
- Instructions below are general guidelines always refer to the applicable drawing in the UL Fire Resistance Directory or Hilti Firestop Systems Guide for complete installation information

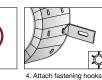
Opening

 Clean the plastic pipes. Expansion of the intumescent material during a fire acts to close the plastic pipe. Very dirty pipes, (ie: with remains of mortar) may lead to a delay in this closing action. Soiled plastic pipes should, therefore, be cleaned in the area where the CP 644 Firestop Collar is to be installed.









indicated on the packaging.

the space available in each case.

Application of firestop system

the specific UL system.

2.

Seal the opening. Gaps must be closed with FS-

3. Close the CP 644 Firestop Collar. Place the CP 644

closure by applying firm pressure until it latches.

4. Attach fastening hooks. The fastening hooks can

ONE. The approved methods vary and are given in

Firestop Collar around the plastic pipe and lock the

be attached to various points on the metal housing.

This allows the fastening points to be made to suit

The hooks must be positioned as symmetrically as

possible. The required number of fastening hooks is



5. Fasten collar and identification plate. (If required)

- Fastening the CP 644 Firestop Collar. Only when fastened properly can CP 644 offer protection against fire passing through.
 - a. Mark the fastening points.
 - b. Drill holes with a Hilti rotary hammer drill (i.e. TE 4-A18) or, depending on base material, fasten using Hilti powder-actuated tool.
 - c. To secure the CP 644 Firestop Collar, use Hilti anchors/fasteners.
 - d. For maintenance reasons, a penetration can be permanently marked with an identification plate and fastened in a visible position next to the seal.

Not for use

- With metal pipes
- In highly corrosive surroundings
- With unapproved anchors/fasteners

Storage

 Store only in the original packaging in a location protected from moisture



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MSDS No.: Revision No.: Revision Date: Page:

Product name:	FS-ONE High Performance Intumescent Firestop Sealant
Description:	One-part acrylic-based sealant
Supplier:	Hilti, Inc. P.O. Box 21148, Tulsa, OK 74121
Emergency # (Chem-Trec.):	1 800 424 9300 (USA, PR, Virgin Islands, Canada); 001 703 527 3887

1 800 424 9300 (USA, PR, Virgin Islands, Canada); 001 703 527 3887 (other countries)

INGREDIENTS AND EXPOSURE LIMITS

Ingredients:	CAS Number:	PEL:	TLV:	STEL:
Polyacrylate dispersion	Mixture	NE	NE	NE
Calcium carbonate	001317-65-3	5 mg/m³ (T)	10 mg/m³ (T)	NE
Zinc borate	138265-88-0	NE	NE	NE
Ammonium polyphosphate	068333-79-9	NE	NE	NE
Talc	014807-96-6	20 mppcf	2 mg/m ³	NE
Expandable graphite	012777-87-6	5 mg/m ³ (T)	2 mg/m ³ (T)	NE
Ethylene glycol	000107-21-1	NE	C:100 mg/m ³ (A)	NE
Polybutene	009003-29-6	NE	NE	NE
Iron oxide	001309-37-1	10 mg/m³	5 mg/m³	NE
Glass filament	065997-17-3	NE	5 mg/m³ (T)	NE
Silicon dioxide	014808-60-7	0.05 mg/m³ (T)	0.1 mg/m ³ (T)	NE
Water	007732-18-5	NE	NE	NE

Abbreviations: PEL = OSHA Permissible Exposure Limit. TLV = ACGIH Threshold Limit Value. C = Ceiling. STEL = Short Term Exposure Limit. NE = None Established. NA = Not Applicable. (T) indicates "as total dust". (R) indicates "as respirable fraction". (A) indicates "as an aerosol". mppcf = million particles per cubic foot.

PHYSICAL DATA

Appearance:	Red paste.	Odor:	Odorless.
Vapor Density: (air = 1)	Not determined.	Vapor Pressure:	23mbar @ 20C / 68F
Boiling Point:	Not applicable.	VOC Content:	75.0 g/L.
Evaporation Rate:	Not applicable.	Solubility in Water:	Soluble.
Specific Gravity:	1.5	pH:	Not determined.

FIRE AND EXPLOSION HAZARD DATA Flash Point: Non-flammable. Flammable Limits: Not applicable. Extinguishing Media: Not applicable. Use extinguishing media as appropriate for surrounding fire. None known. Use a self-contained breathing apparatus when fighting fires involving Special Fire Fighting Procedures: chemicals. Unusual Fire and Explosion Hazards: None known. Thermal decomposition products can be formed such as oxides of carbon, sulfur and phosphorous. **REACTIVITY DATA** Stability: Stable. Hazardous Polymerization: Will not occur. Incompatibility: Strong acids, peroxides, and oxidizing agents. **Decomposition Products:** Thermal decomposition can yield CO and CO₂. Conditions to Avoid: None known. HEALTH HAZARD DATA Known Hazards: None known. Signs and Symptoms of Exposure: Possibly irritating upon contact with the eyes or upon repeated contact with the skin. Medical Conditions Eye and skin conditions. Aggravated by Exposure:





Hilti Firestop Saving Lives through innovation and education

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HILTHING STREET			Material	Safety Data Shee
			MSDS No.: Revision No.: Revision Date: Page:	259 010 08/17/04 2 of 2
Carcinogenicity:	workers in industries w inhalation) to silica dust workers. This product	ne silica (quartz sand) as Grou here there has been long-tern t; e.g. mining, quarry, stone cr does not pose a dust hazard; the nature and intended use o p workers.	n and chronic expo rushing, refractory b therefore, this class	sure (via prick and pottery sification is not
EMERGENCY AND FIRST AII	PROCEDURES			
Eyes:	Immediately flush with	plenty of water. Call a physic	ian if symptoms oc	cur.
Skin:	skin. If material has ad	aterial and wash with soap ar hered to the skin, use an abra e off, buff with a pumice stone	asive containing har	
Inhalation:	Move victim to fresh air	r if discomfort develops. Call	a physician if symp	otoms persist.
Ingestion:		. Do not induce vomiting unle give 1 to 2 glasses of water to us person.		
Other:	Referral to a physician the injury/exposure.	is recommended if there is an	y question about th	e seriousness of
CONTROL MEASURES AND	PERSONAL PROT		г	
Ventilation:	General (natural or med	chanically induced fresh air mo	ovements).	
Eye Protection:	Not required, however,	safety glasses should be wor	n in most industrial	settings.
Skin Protection:	Avoid skin contact. Clo	th gloves are suitable for han	d protection.	
Respiratory Protection:		 Where ventilation is inadequent h organic vapor cartridges. N lied respirator. 		
PRECAUTIONS FOR SAFE H	ANDLING AND US	E		
Handling and Storing Precautions:	store in direct sunlight. always wash thoroughly	a preferably between 40o and Avoid contact with the eyes y after handling and before ea n of children. Follow label/use	or skin. Practice ge ating or smoking. F	ood hygiene; i.e.
Spill Procedures:	Immediately wipe away spilled material before it hardens. Place in a container for produsposal in accordance with all applicable local, state, or federal requirements.			
REGULATORY INFORMATIOI	N			
Hazard Communication:	This MSDS has been p Communication Standa	repared in accordance with th ard 29 CFR 1910.1200.	ne federal OSHA Ha	zard
HMIS Codes:	Health 1, Flammability	0, Reactivity 0, PPE B		
DOT Shipping Name:	Not regulated.			
IATA / ICAO Shipping Name:	Not regulated.			
TSCA Inventory Status:	contains < 3% ethylene	listed on TSCA inventory. SAF glycol (CAS 107-21-1) and < subject to reporting under Se	15% zinc borate (r	e: zinc
EPA Waste Code(s):	Not regulated by EPA as a hazardous waste.			
Waste Disposal Methods:		agencies or your corporate p e, and federal safety, health ar		
CONTACTS				
Customer Service:	1 800 879 8000	Technical Service: 1	1 800 879 8000	
Health / Safety:	1 800 879 6000 Jerry I	Metcalf (x6704)		
Emergency # (Chem-Trec):	1 800 424 9300 (USA, I	DD Minis Islands Osmada).	01 702 507 2897 (ther equatrice)

The information and recommendations contained herein are based upon data believed to be correct; however, no guarantee or warranty of any kind expressed or implied is made with respect to the information provided.



Hilti. Outperform. Outlast.



Hilti North America 5400 South 122nd East Avenue Tulsa, OK 74146

P.O. Box 21148 | Tulsa, OK 74121-1148 T 1-800-879-8000 | F 918-252-6742 www.hilti.com

June 27, 2008

To Whom It May Concern:

Re: Hilti FS-ONE Intumescent Firestop

The Hilti FS-ONE Intumescent Firestop is manufactured in Kaufering, Germany.

The FS-ONE pail is made of polyethylene and can be completely recycled. There is no postconsumer or post-industrial content in FS-ONE and it cannot be recycled. The VOC content for FS-ONE is 75 grams/liter.

FS-ONE is not regulated as a hazardous waste by the Federal EPA Standards. The regulations for the disposal of non-regulated industrial waste can vary from state to state and even city to city. For this reason, you should consult your local and state regulatory agencies for direction on disposal.

Please feel free to contact me at (918) 252-6704 if you have questions.

Sincerely,

Jerry Metcalf MPH, CHMM Safety/Environmental Manager Hilti Inc (918) 252 6704 jerry.metcalf@hilti.com



 MSDS No.:
 259

 Revision No.:
 010

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 08/17/04

 Page:
 1 of 2

MATERIAL SAFETY DATA SHEET		
Product name:	FS-ONE High Performance Intumescent Firestop Sealant	
Description:	One-part acrylic-based sealant	
Supplier:	Hilti, Inc. P.O. Box 21148, Tulsa, OK 74121	
Emergency # (Chem-Trec.):	1 800 424 9300 (USA, PR, Virgin Islands, Canada); 001 703 527 3887 (other countries)	

INGREDIENTS AND EXPOSURE LIMITS				
Ingredients:	CAS Number:	PEL:	TLV:	STEL:
Polyacrylate dispersion	Mixture	NE	NE	NE
Calcium carbonate	001317-65-3	5 mg/m ³ (T)	10 mg/m ³ (T)	NE
Zinc borate	138265-88-0	NE	NE	NE
Ammonium polyphosphate	068333-79-9	NE	NE	NE
Talc	014807-96-6	20 mppcf	2 mg/m ³	NE
Expandable graphite	012777-87-6	5 mg/m ³ (T)	2 mg/m ³ (T)	NE
Ethylene glycol	000107-21-1	NE	C:100 mg/m ³ (A)	NE
Polybutene	009003-29-6	NE	NE	NE
Iron oxide	001309-37-1	10 mg/m ³	5 mg/m ³	NE
Glass filament	065997-17-3	NE	5 mg/m ³ (T)	NE
Silicon dioxide	014808-60-7	0.05 mg/m ³ (T)	0.1 mg/m ³ (T)	NE
Water	007732-18-5	NE	NE	NE

Abbreviations: PEL = OSHA Permissible Exposure Limit. TLV = ACGIH Threshold Limit Value. C = Ceiling. STEL = Short Term Exposure Limit. NE = None Established. NA = Not Applicable. (T) indicates "as total dust". (R) indicates "as respirable fraction". (A) indicates "as an aerosol". mppcf = million particles per cubic foot.

PHYSICAL DATA			
Appearance:	Red paste.	Red paste. Odorless. Odorless.	
Vapor Density: (air = 1)	Not determined.	Vapor Pressure:	23mbar @ 20C / 68F
Boiling Point:	Not applicable.	VOC Content:	75.0 g/L.
Evaporation Rate:	Not applicable.	Solubility in Water:	Soluble.
Specific Gravity:	1.5	рН:	Not determined.
	FIRE AND EXPLOSIO	N HAZARD DATA	
Flash Point:	Non-flammable.	Flammable Limits:	Not applicable.
Extinguishing Media:	Not applicable. Use extinguishing	g media as appropriate for surround	ling fire.
Special Fire Fighting Procedures:	None known. Use a self-contained breathing apparatus when fighting fires involving chemicals.		
Unusual Fire and Explosion Hazards:			
	REACTIVITY	(DATA	
Stability:	Stable.	Hazardous Polymerization:	Will not occur.
Incompatibility:	Strong acids, peroxides, and oxid	izing agents.	
Decomposition Products:	Thermal decomposition can yield	CO and CO ₂ .	
Conditions to Avoid:	None known.		
HEALTH HAZARD DATA			
Known Hazards:	None known.		
Signs and Symptoms of Exposure:	Possibly irritating upon contact with the eyes or upon repeated contact with the skin.		
Medical Conditions Aggravated by Exposure:	Eye and skin conditions.		
Routes of Exposure:	Dermal.		

Carcinogenicity:	IARC classifies crystalline silica (quartz sand) as Group I based upon evidence among workers in industries where there has been long-term and chronic exposure (via inhalation) to silica dust; e.g. mining, quarry, stone crushing, refractory brick and pottery workers. This product does not pose a dust hazard; therefore, this classification is not relevant. Based upon the nature and intended use of this product, it does not pose an increased cancer risk to workers.	
	EMERGENCY AND FIRST AID PROCEDURES	
Eyes:	Immediately flush with plenty of water. Call a physician if symptoms occur.	
Skin:	Immediately wipe off material and wash with soap and water. Material can adhere to the skin. If material has adhered to the skin, use an abrasive containing hand cleaner. If material does not come off, buff with a pumice stone.	
Inhalation:	Move victim to fresh air if discomfort develops. Call a physician if symptoms persist.	
Ingestion:	Seek medical attention. Do not induce vomiting unless directed by a physician. If a large quantity was ingested, give 1 to 2 glasses of water to dilute. <u>Never</u> give anything by mouth to an unconscious person.	
Other:	Referral to a physician is recommended if there is any question about the seriousness of the injury/exposure.	
COI	NTROL MEASURES AND PERSONAL PROTECTIVE EQUIPMENT	
Ventilation:	General (natural or mechanically induced fresh air movements).	
Eye Protection:	Not required, however, safety glasses should be worn in most industrial settings.	
Skin Protection:	Avoid skin contact. Cloth gloves are suitable for hand protection.	
Respiratory Protection:	None normally required. Where ventilation is inadequate to control vapors, use a NIOSH- approved respirator with organic vapor cartridges. Never enter a confined space without an appropriate air-supplied respirator.	
	PRECAUTIONS FOR SAFE HANDLING AND USE	
Handling and Storing Precautions:	Store in a cool, dry area preferably between 40° and 77° F. Keep from freezing. Do not store in direct sunlight. Avoid contact with the eyes or skin. Practice good hygiene; i.e. always wash thoroughly after handling and before eating or smoking. For industrial use only. Keep out of reach of children. Follow label/use instructions.	
Spill Procedures:	Immediately wipe away spilled material before it hardens. Place in a container for proper disposal in accordance with all applicable local, state, or federal requirements.	
	REGULATORY INFORMATION	
Hazard Communication:	This MSDS has been prepared in accordance with the federal OSHA Hazard Communication Standard 29 CFR 1910.1200.	
HMIS Codes:	Health 1, Flammability 0, Reactivity 0, PPE B	
DOT Shipping Name:	Not regulated.	
IATA / ICAO Shipping Name:	Not regulated.	
TSCA Inventory Status:	Chemical components listed on TSCA inventory.	
SARA Title III, Section 313:	This product contains < 3% ethylene glycol (CAS 107-21-1) and < 15% zinc borate (re: zinc compounds) which are subject to reporting under Section 313 of SARA Title III (40 CFR Part 372).	
EPA Waste Code(s):	Not regulated by EPA as a hazardous waste.	
Waste Disposal Methods:	Consult with regulatory agencies or your corporate personnel for disposal methods that comply with local, state, and federal safety, health and environmental regulations.	
	CONTACTS	
Customer Service:	1 800 879 8000 Technical Service: 1 800 879 8000	
Health / Safety:	1 800 879 6000 Jerry Metcalf (x6704)	
riculti / Ouloty.	(x0704)	

The information and recommendations contained herein are based upon data believed to be correct; however, no guarantee or warranty of any kind expressed or implied is made with respect to the information provided.