



SUBMITTAL SHEET

Dondlinger Construction

120035- - COW -Cheney Pump Station Ozone Strainer Replacement

Project: 120035-
COW -Cheney Pump Station Ozone Strainer
Replacement

Spec Section Num: 31 11 16
Submittal: 311116-01 Rev 1


Revision: 0
Package: Water Piping
Date: 12/7/2020 UTC

Submittal Title: Backwash Piping -Product Data
Submittal Detail:
Response Due By: 12/11/2020 UTC

Contractor:
Eric Swenson
Dondlinger Construction

| | |
|--|--------------------------------------|
| Contractor's Stamp | |
| DONDLINGER AND SONS CONST. CO., INC. | |
| <input checked="" type="checkbox"/> | Reviewed <u>Eric Swenson</u> |
| <input type="checkbox"/> | Reviewed as Noted _____ |
| <input type="checkbox"/> | Revise and Resubmit _____ |
| <input checked="" type="checkbox"/> | Date <u>12/07/20</u> |
| <input checked="" type="checkbox"/> | Submittal No. <u>331116-01 Rev 1</u> |
| REVIEW OF ITEMS DOES NOT RELIEVE VENDOR FROM COMPLYING WITH REQUIREMENTS OF CONTRACT PLANS AND SPECIFICATIONS, CONTRACT AND CITY, STATE AND LOCAL CODES. | |

Architect:
Aidan Gearhart
PEC

| | |
|---|--|
| SUBMITTAL REVIEW | |
| <input checked="" type="checkbox"/> APPROVED | Approval is only for general conformance with the design concept of the project. Contractor at all times remains responsible for compliance with the Contract Documents. Deviations are not approved unless Contractor has in writing called Engineer's attention to such deviation at the time of submission and Engineer has in writing approved the specific deviation. No acceptance by Engineer relieves Contractor from responsibility for errors or omissions in Compliance Submittals. |
| <input type="checkbox"/> APPROVED AS NOTED If checked above, fabrication MAY be undertaken. Approval does not authorize changes to Contract Sum unless stated in a Change Order. | |
| <input type="checkbox"/> REJECT AND RESUBMIT If checked below, fabrication MAY NOT be undertaken. Resubmit corrected copies for final approval. Correction shall be limited to items marked. |  PEC PROFESSIONAL ENGINEERING CONSULTANTS, P.A. BY <u>Nicole Franken</u> DATE <u>12/7/20</u> |
| <input type="checkbox"/> REJECTED | |

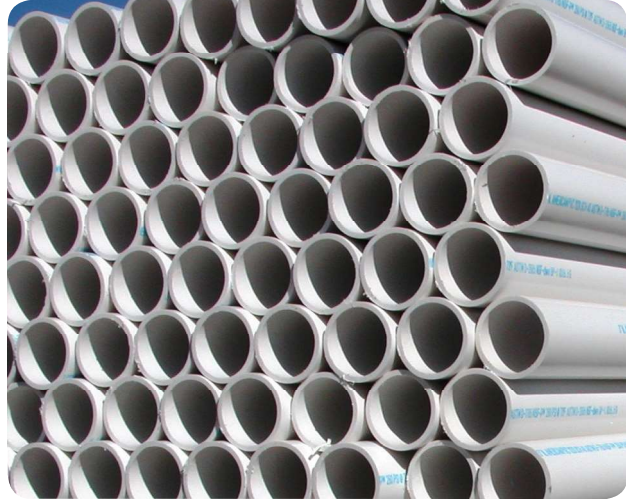
Comment:



ASTM D1785/D2665 Sch. 40 PVC Pressure/DWV Pipe
— ASTM D1785 Sch. 80 PVC Pressure Pipe
SOLVENT WELD

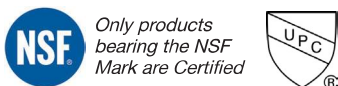
North American Pipe Corporation's ASTM D1785 Solvent Weld PVC Pipe product line is manufactured to meet the needs of residential, commercial, & industrial plumbing systems, and other pressure applications. With top quality raw materials and modern processing technology, our ASTM D1785 pipe meets all industry standards in addition to our own rigorous quality control standards.

For sizes 1¼" and larger, our ASTM D1785 Schedule 40 pipe is also dual rated to ASTM D2665 for DWV applications. This gives the designer, installer, and end user the flexibility of one product for two distinct applications. North American Pipe produces ASTM D1785 Solvent Weld pipe in both solid wall and various perforated styles.



| Short Form Specification | | |
|---------------------------|---|--------------------|
| Pipe Standard: | ASTM D1785 & ASTM D2665** Sch. 40 | ASTM D1785 Sch. 80 |
| Applications: | Water DWV** | Water |
| Diameter Std.: | — Iron Pipe Size (IPS) | |
| Nominal Sizes: | ½", ¾", 1", 1¼", 1½", 2", 2½", 3", 4", 5", 6", 8", 10", 12", 14", 16", 18", 20", 24" | |
| Pressure Ratings: | See Next Page | |
| Length: | 10' or 20' | |
| Color: | White | Gray |
| Pipe Compound: | ASTM D1784 Cell Class 12454 | |
| Pipe Joint Std.: | ASTM D2672 | |
| Pipe Options: | — Solid Wall Plain End (M x M) — Solid Wall Bell End (M x F) 2 Hole Perforated Bell End (M x F) 3 Hole Perforated Bell End (M x F) | |
| Certifications: | NSF 14 & NSF 61 IAPMO Uniform Plumbing Code* | |
| Installation Std.: | ASTM D2774 & ASTM D2855 | |

*IAPMO Uniform Plumbing Code listed products must be requested at time of order.
 **Sizes ½", ¾", 1" & 5" are not included in the ASTM D2665 DWV pipe standard.



USE OF PVC PIPE IN EXHAUST SYSTEMS

WARNING: Failure to follow these instructions exactly could result in serious injury, death, or property damage.

WARNING: Flue gas temperature should not exceed 140° Fahrenheit. PVC pipe exposed to temperatures higher than 140° Fahrenheit may melt or change shape, resulting in leakage of exhaust fumes and property damage.

WARNING CARBON MONOXIDE POISONING HAZARD: Vent pipe must be properly installed in accordance with all local and national plumbing and HVAC installation standards and codes.

North American Pipe Corporation assumes no responsibility for equipment installed in violation of any code or regulation.

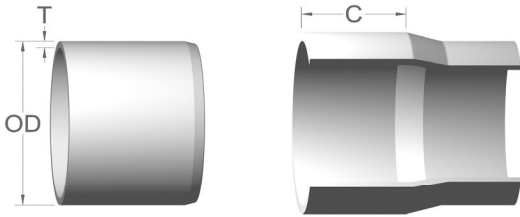
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ASTM D1785/D2665 Sch. 40 PVC Pressure/DWV Pipe
ASTM D1785 Sch. 80 PVC Pressure Pipe
SOLVENT WELD



Notes:

1. These dimensions are for estimating purposes only. All dimensions are in inches unless otherwise specified.
2. ASTM Pressure Rating @ 73°F and includes 2:1 safety factor.
3. Internal diameter calculated using nominal outside diameter and minimum wall thickness.

D1785 PIPE DIMENSIONS & PERFORMANCE

| Nominal Size | Outside Diameter (OD) | Class | Pressure Rating (psi) | Min. Wall Thickness (T1) | Internal Diameter (ID) | Bell Depth (C) |
|--------------|-----------------------|---------|-----------------------|--------------------------|------------------------|----------------|
| ½" | 0.840 | Sch. 40 | 600 | 0.109 | 0.622 | 1.750 |
| | | Sch. 80 | 850 | 0.147 | 0.546 | |
| ¾" | 1.050 | Sch. 40 | 480 | 0.113 | 0.824 | 2.500 |
| | | Sch. 80 | 690 | 0.154 | 0.742 | |
| 1" | 1.315 | Sch. 40 | 450 | 0.133 | 1.049 | 2.500 |
| | | Sch. 80 | 630 | 0.179 | 0.957 | |
| 1¼" | 1.660 | Sch. 40 | 370 | 0.140 | 1.380 | 2.500 |
| | | Sch. 80 | 520 | 0.191 | 1.278 | |
| 1½" | 1.900 | Sch. 40 | 330 | 0.145 | 1.610 | 2.500 |
| | | Sch. 80 | 470 | 0.200 | 1.500 | |
| 2" | 2.375 | Sch. 40 | 280 | 0.154 | 2.067 | 3.250 |
| | | Sch. 80 | 400 | 0.218 | 1.939 | |
| 2½" | 2.875 | Sch. 40 | 300 | 0.203 | 2.469 | 3.500 |
| | | Sch. 80 | 420 | 0.276 | 2.323 | |
| 3" | 3.500 | Sch. 40 | 260 | 0.216 | 3.068 | 4.250 |
| | | Sch. 80 | 370 | 0.300 | 2.900 | |
| 4" | 4.500 | Sch. 40 | 220 | 0.237 | 4.026 | 5.500 |
| | | Sch. 80 | 320 | 0.337 | 3.826 | |
| 5" | 5.563 | Sch. 40 | 190 | 0.258 | 5.047 | 6.000 |
| | | Sch. 80 | 290 | 0.375 | 4.813 | |
| 6" | 6.625 | Sch. 40 | 180 | 0.280 | 6.065 | 7.000 |
| | | Sch. 80 | 280 | 0.432 | 5.761 | |
| 8" | 8.625 | Sch. 40 | 160 | 0.322 | 7.981 | 7.500 |
| | | Sch. 80 | 250 | 0.500 | 7.625 | |
| 10" | 10.750 | Sch. 40 | 140 | 0.365 | 10.020 | 8.500 |
| | | Sch. 80 | 230 | 0.593 | 9.564 | |
| 12" | 12.750 | Sch. 40 | 130 | 0.406 | 11.938 | 10.000 |
| | | Sch. 80 | 230 | 0.687 | 11.376 | |
| 14" | 14.000 | Sch. 40 | 130 | 0.437 | 13.126 | 10.000 |
| 16" | 16.000 | Sch. 40 | 130 | 0.500 | 15.000 | 10.000 |
| 18" | 18.000 | Sch. 40 | 130 | 0.562 | 16.876 | 12.000 |
| 20" | 20.000 | Sch. 40 | 120 | 0.593 | 18.814 | 12.000 |
| 24" | 24.000 | Sch. 40 | 120 | 0.687 | 22.626 | 12.000 |

NorthAmericanPipe.com

1.855.624.7473 PL-PS-001 0117

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Submittal Information for Spears® Manufacturing Company PVC Schedule 80 Solid Wall Pipe & Fitting System

Date: 09/10/2020

GSPVC80-0718

Job Name: _____ Location: Wichita, KS

Engineer: _____ Contractor: Dondlinger

Scope:

This submittal covers Spears® PVC Schedule 80 solid wall pipe and fittings intended for use in pressure applications where the application operating temperature does not exceed 140° F (63°C).

Product Specification:

All Spears® PVC Schedule 80 fittings shall be manufactured in the U.S.A by Spears® Manufacturing Company from PVC Type I, with a minimum cell classification 12454 in accordance with ASTM Standard D1784. All injection molded PVC Schedule 80 fittings shall be certified for potable water service by NSF International manufactured in strict compliance to ASTM D2467. All fabricated fittings shall be produced in accordance with Spears® General Specifications for Fabricated Fittings (FAB-7). Spears® PVC Schedule 80 pipe and fittings shall be capable of withstanding a vacuum of twenty-six inches of mercury (Hg) at 73° F (23° C) when subjected to a one hour test with a leak factor of not more than one inch of Hg. All PVC flanges shall be designed and manufactured to meet CL150 bolt pattern per ANSI Standard B16.5 and rated for a maximum internal pressure of 150 psi, non-shock at 73°F unless otherwise noted.

All Spears® PVC Schedule 80 pipe shall be manufactured in the U.S.A by Spears® Manufacturing Company from a Type I, Grade I Polyvinyl Chloride (PVC) compound with a minimum cell classification of 12454 in accordance with ASTM D1784. The pipe shall be manufactured in strict compliance to ASTM D1785 consistently meeting and/or exceeding the quality assurance test requirements of these standards. All Spears® EverTUFF® pipe shall be manufactured in the USA and immediately wrapped for protection. The pipe shall be provided with plain ends in 20 foot cut lengths. All Spears® EverTUFF® pipe shall be certified by NSF International for potable water applications and marked accordingly.

Product Marking

All Spears® pipe shall be marked PVC schedule 80 and shall be marked with NSF® Listing, ASTM Standard and applicable

pressure @ 73° F. (23°C). Spears® PVC Schedule 80 Fittings shall be engraved with markings required by ASTM Standard and bear an NSF® listing mark for potable water use.

Installation:

Installation for Spears® PVC Schedule 80 systems shall comply with current installation instructions published by Spears® Manufacturing Company, established industry practices and all applicable code requirements. Buried pipe shall be in accordance with ASTM 2774 and ASTM F1668. The piping system shall be joined using a two-step solvent cement joining process with primer conforming to ASTM F656 and solvent cement conforming to ASTM D2564. The system shall be protected from ultra violet (UV) light exposure from the sun or other source and protected from any chemicals that are not compatible with the PVC materials including but not limited to fire stopping materials, plasticizers, incompatible thread sealants etc.

NOTE: PVC piping systems are suitable for oil-free air handling to 25 psi, not for distribution of compressed air or gas.

Referenced Standards:

- ASTM D1784 – Rigid Vinyl Compounds
- ASTM D1785 – PVC Schedule 40, 80 & 120 Pipe
- ASTM D2467 – PVC Schedule 80 Fittings
- ASTM D2564 – Solvent Cements for PVC Pipe & Fittings
- ASTM D2774 – Procedure for Buried Pressure Pipe
- ASTM F656 – Primers for PVC Pipe & Fittings
- ASTM F1668 – Procedures for Buried Plastic Pipe
- ASTM F1866 – Fabricated PVC DWV Fittings
- NSF International – Standard 14/61 Potable Water
- ANSI B16.5 - Pipe Flange Dimensions

Approvals:

NSF® – NSF International Standard 14/61 Potable Water

Features:

- Lightweight
- Corrosion Resistant
- Long Service Life





Technical Specification

Purple Primer – NSF Listed

Description

- Purple-tinted aggressive primer for use on PVC and CPVC pipe and fittings.
- Lo-V.O.C. Solvent Cement meets California South Coast Air Quality Management District (SCAQMD) 1168/316A or BAAQMD Method 40 and various environmental requirements.
- Removes surface dirt, grease and grime as well as softens the pipe surface to allow a fast, secure solvent weld.
- For use in areas where plumbing code calls for verification that a primer has been used.
- N SF and IAPMO Listed.
- Meets ASTM F656.



Listings



NSF Standard 61 for PW,
DWV and Sewer Waste



IAPMO Listed

Maximum VOC per SCAQMD 1168/316A or BAAQMD Method 40: 550 g/L

INGREDIENTS (CAS Number)

Acetone (67-64-1), Cyclohexanone (108-94-4), Methyl Ethyl Ketone (78-93-3), Red Dye (4477-76-6) Violet Dye (81-48-1), Tetrahydrofuran (109-99-9)

MSDS Number: 1402E

| Product Number | Size | Qty | Wgt | Product Number | Size | Qty | Wgt |
|----------------|--------|-----|---------|----------------|--------|-----|---------|
| 30755 | 4 oz. | 24 | 8 lbs. | 307553 | 4 oz. | 48 | 8 lbs. |
| 30756 | 8 oz. | 24 | 14 lbs. | 307563 | 8 oz. | 36 | 14 lbs. |
| 30757 | 16 oz. | 24 | 25 lbs. | 307573 | 16 oz. | 10 | 25 lbs. |
| 30758 | 32 oz. | 12 | 24 lbs. | 307583 | 32 oz. | 6 | 24 lbs. |
| 30759 | Gallon | 6 | 46 lbs. | | | | |

Oatey Co.
4700 West 160 th St.
Cleveland, OH 44135

Phone: 1-800-321-9532
Phone: 1-800-321-9535
Visit www.oatey.com for Update





CHEMICAL PROPERTIES

| | |
|------------|---------------------------|
| Appearance | Purple Liquid |
| Density | 6.97 ± 0.2 lbs/gallon |
| Shelf Life | 3 Years from Mfg. Date |

Precautions

Read all information carefully before using this product.

DANGER!: CAUSES SERIOUS EYE IRRITATION. HARMFUL IF INHALED. MAY CAUSE DROWSINESS OR DIZZINESS. MAY CAUSE RESPIRATORY IRRITATION. REPEATED EXPOSURE MAY CAUSE SKIN DRYNESS OR CRACKING. Long term overexposure to solvents may cause damage to the brain, nervous system, reproductive system, respiratory system, mucous membranes, liver and kidneys. Contains a chemical classified by the US EPA as a suspected possible carcinogen. KEEP OUT OF REACH OF CHILDREN.

PRECAUTIONS: Avoid breathing vapors. Use only outdoors or in a well-ventilated area. Use explosion-proof electrical/ventilating equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear a NIOSH-approved respirator for organic solvents. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Vapors may accumulate in low places and may ignite explosively. Keep container tightly closed and cool. Wear protective gloves and eye protection. Wash thoroughly after handling. Do not eat or drink while using this product.

EMERGENCY/FIRST AID: CALL 1-877-740-5015 FOR INSTRUCTIONS.

IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. Rinse mouth. This product may be aspirated into the lungs and cause chemical pneumonitis, a potentially fatal condition. If IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention. If ON SKIN: Rinse skin with water/shower. Take off immediately all contaminated clothing. If INHALED: Remove person to fresh air and keep comfortable for breathing. Call POISON CENTER/doctor if you feel unwell. If medical advice is needed, have product container or label at hand. FIRE: Use dry chemical, foam, or carbon dioxide extinguisher. Water spray may be applied to reduce potential vapors or for cooling. Burning liquid extinguished with water will float and may re-ignite on surface of water. SPILLS: Remove all sources of ignition and ventilate area. Personnel cleaning up the spill should wear appropriate personal protective equipment, including respirators if vapor concentrations are high. Soak up spill with absorbent material. Put absorbent material in covered, labeled metal containers. Dispose of contents/ container in accordance with local regulations. Store in a well-ventilated space. Store locked up.



Directions for Use

Store and use at temperatures between -15°F and 110°F. At temperatures outside of this range, special care must be taken to prepare good joints and prevent exposure to solvents. Stir or shake before using; if jelly-like, don't use. Do not thin.

Handle with care! Will stain most materials and surfaces.

1. Cut pipe ends square, chamfer and clean pipe ends.
2. Check dry fit of pipe and fitting. Pipe should easily go 1/3 of the way into the fitting. If pipe bottoms, it should be snug.
3. Use a suitable applicator at least 1/2 the size of the pipe diameter. For larger size pipe systems use a natural bristle brush or roller.
4. Apply thoroughly to inside of the fitting socket and to the outside surface of the pipe to the depth of the fitting. Apply a second coat of primer to fitting socket.
5. While primer is still wet use an appropriate solvent cement for the pipe being joined. Follow application instructions from cement can.

DO NOT TEST WITH AIR.

Revision Date: 3/15/2013



PVC ALL WEATHER CLEAR CEMENT TECHNICAL SPECIFICATION

| | |
|----------------------|------------------|
| Job Name _____ | Item # _____ |
| Location _____ | |
| Engineer _____ | Contractor _____ |
| PO # _____ | Tag _____ |
| Representative _____ | |

SPECIFICATIONS

- Medium-bodied clear cement for use on all schedules and classes of PVC pipe and fittings up to 6" diameter with interference fit.
- Lo-V.O.C. Solvent Cement meets California South Coast Air Quality Management District (SCAQMD) 1168/316A or BAAQMD Method 40 and various environmental requirements.
- No primer needed on non-pressure DWV, where local codes permit.

APPLICATION / USES

- Recommended for use on potable water, drain, waste, and vent systems.
- Recommended application temperature - 15°F to 110°F / -26°C to 43°C.


PROPERTIES

| VOC |
|---|
| Maximum VOC per SCAQMD 1168/316A or BAAQMD Method 40: 510 g/L |

| CHEMICAL PROPERTIES | |
|---------------------|------------------------------|
| Appearance | Clear Liquid |
| Viscosity | Min. 500° cps @ 73° F ± 2° F |
| Density | 7.89 ± 0.2 lbs/gallon |
| Shelf Life | 3 Years from Mfg. Date |

| SET TIME / CURE TIME | |
|----------------------|---------------|
| 30° F to 50° F | 3 – 4 minutes |
| 50° F to 70° F | 2 – 3 minutes |
| 70° F to 90° F | 1 – 2 minutes |





ASTM Standard D2564, NSF Standard 61 for PW, DWV and Sewer Waste, IAPMO Listed

| PRODUCT NUMBER | SIZE | DESCRIPTION | CTN. QTY |
|----------------|--------|---|----------|
| 31132 | 16 oz. | PVC All Weather Clear Cement | 24 |
| 31133 | 32 oz. | PVC All Weather Clear Cement | 12 |
| 31135 | Gallon | PVC All Weather Clear Cement - Wide Mouth Can | 6 |

§ Compliant with LEED Requirements. Solvent cements may be specified under the LEED v4 EQ for Low-Emitting Materials to obtain points



PVC ALL WEATHER CLEAR CEMENT TECHNICAL SPECIFICATION

DIRECTIONS

Store and use at temperatures between 40°F and 110°F.

- At temperatures outside of this range, special care must be taken to make good joints.

Stir or shake before using; if jelly-like, don't use. Do not thin

1. Pipe ends must be cut square, deburred and chamfered.
2. Check interference fit of pipe and fitting. Pipe should easily go 1/3 to 2/3 of the way into the fitting. If pipe bottoms inside the fitting hub without interference, proper fusion may not be achieved.
3. Use a suitable applicator that is at least 1/2 the size of the pipe diameter. For larger size pipe systems use a natural bristle brush or roller.
4. Clean pipe and fitting with a pipe cleaner or rag.
5. Prime pipe with a listed primer. Apply primer inside the fitting hub and then to the pipe end. Re-dip the dauber and prime the fitting a second time.
6. While primer is still wet, apply liberal coat of cement on pipe to the depth of the fitting hub, leave no uncoated surface. Apply a thin coat of cement to inside of fitting, avoid puddling of cement. Puddling can cause weakening and premature failure of pipe or fitting. Apply a second coat of cement to the pipe.
7. Assemble parts QUICKLY. Cement must be fluid.
8. Push pipe FULLY into fitting using a 1/4 turning motion until pipe bottoms.
9. Hold pipe and fitting together for 30 seconds to prevent pipe push-out - longer at low temperatures. Wipe off excess.
10. Allow 15 minutes for good handling strength.
11. Allow correct cure times to pass before the plumbing system is tested.
 - Cure times are calculated based on pipe materials, pipe size, pressure and temperature of fluids passing through the pipes, humidity, ambient temperatures and the cement used for the application.
 - If you are unsure of the correct cure times for your application, please reach out to our customer service department for assistance (800) 321-9532

DO NOT TEST WITH AIR OR COMPRESSED GAS.

§ Compliant with LEED Requirements. Solvent cements may be specified under the LEED v4 EQ for Low-Emitting Materials to obtain points

PRECAUTIONS

Read all information carefully before using this product.

DANGER! HIGHLY FLAMMABLE LIQUID AND VAPOR • CAUSES SKIN IRRITATION • CAUSES SERIOUS EYE IRRITATION • HARMFUL IF SWALLOWED. MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS • MAY CAUSE DROWSINESS OR DIZZINESS • MAY CAUSE RESPIRATORY IRRITATION • CONTAINS A CHEMICAL CLASSIFIED BY THE US EPA AS A SUSPECTED POSSIBLE CARCINOGEN • READ ENTIRE LABEL CAREFULLY. KEEP OUT OF REACH OF CHILDREN.

Prevention: Keep away from heat, sparks, open flames or hot surfaces. No smoking. Use only outdoors or in a well-ventilated area. Keep container tightly closed. Ground container and receiving equipment. Use explosion-proof electrical, ventilating, lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves, protective clothing, eye-protection, and face protection. Wear a NIOSH approved respirator for organic solvents. Vapors may accumulate in low places and may ignite explosively. Long term over exposure to solvents may cause damage to the brain, nervous system, reproductive system, respiratory system, mucous membranes, liver and kidneys. Repeated exposure to solvents may cause skin dryness or cracking.

Response: Specific treatment (see below).

EMERGENCY/FIRST AID: CALL 1-877-740-5015 FOR INSTRUCTIONS.

IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. Rinse mouth. This product may be aspirated into the lungs and cause chemical pneumonitis, a potentially fatal condition. **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention. **IF ON SKIN:** Rinse skin with water/shower. Take off immediately all contaminated clothing. **IF INHALED:** Remove person to fresh air and keep comfortable for breathing. Call POISON CENTER/doctor if you feel unwell. If medical advice is needed, have product container or label at hand.

FIRE: Use dry chemical, foam, or carbon dioxide extinguisher. Water spray may be applied to reduce potential vapors or for cooling. Burning liquid extinguished with water will float and may re-ignite on surface of water.

SPILLS: Remove all sources of ignition and ventilate area. Personnel cleaning up the spill should wear appropriate personal protective equipment, including respirators if vapor concentrations are high. Soak up spill with absorbent material. Put absorbent material in covered, labeled metal containers. Dispose of contents/container in accordance with local regulations. Store in a well-ventilated space. Store locked up.