PVC Products

SAFETY DATA SHEET
(Complies with OSHA 29 CFR 1910.1200)

SECTION I: PRODUCT IDENTIFICATION

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The most recent version of this document can be found at www.ContechES.com

SDS CON7
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Product(s): PVC Truss Pipes

Product Use: Industrial use or Construction Use

SECTION II - HAZARD IDENTIFICATION

Hazard-determining components of labeling:
This product does not present health hazards under normal conditions of use. However, mechanical operations associated with the use of PVC material can produce elevated concentrations of airborne PVC particulates. Contact with PVC particulates can be irritating to the eyes and respiratory tract. Avoid contact with the eyes and wear appropriate eye protection when necessary. Operations that produce airborne dusts should be conducted in well ventilated areas. When exposures to airborne PVC particulates exceed the applicable exposure limits, appropriate respiratory protection must be worn. When product is subjected to welding, burning, melting, sawing, brazing, grinding or other processes, potentially hazardous airborne particulate and fumes may be generated. The hazards identified below are only relevant to these processes.

The hollow truss pipes are filled with fully hydrated portland cement mortar. This mortar cannot be liberated from the truss pipes in a form which may present a physical or chemical hazard.

2.1 Classification of the substance or mixture
Carcinogen – Category 1A
Skin Irritation – Category 2
Eye Irritation – Category 2B
Specific Target Organ Toxicity Repeat Exposure – Category 2 (lung)
Acute Toxicity – Oral – Category 4

Acute aquatic toxicity Category 1
Chronic aquatic toxicity Category 1
Skin sensitization Category 1A
Reproductive Toxicity Category 2

2.2a Signal word DANGER!

2.2b Hazard Statements
May cause cancer through prolonged or repeated inhalation
Causes skin irritation
May cause an allergic skin reaction
Dust, particles and fumes cause eye irritation
May cause damage to lungs through prolonged or repeated inhalation
Harmful if swallowed.
Very toxic to aquatic life with long lasting effects
Suspected of damaging fertility or the unborn child

2.2c Pictograms

2.2d Precautionary statements
Do not handle until all safety precautions have been read and understood.
Obtain special instructions before use.
Wear impervious gloves, eye protection, and protective clothing.
Do not eat, drink or smoke when using this product.
Wash thoroughly after handling.
Wash contaminated clothing after use, before re-use, and before removing from workplace.
Concentration in air of the various contaminants determines the extent of respiratory protection needed. Half-face, air-negative-pressure purifying respirator equipped with P100 filter is acceptable for concentrations up to 10 times the exposure limit. Full-face, negative-pressure, air-purifying respirator equipped with P100 filter is acceptable for concentrations up to 50 times the exposure limit. Respirators should be selected by and used under the direction of a trained health and safety professional, following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2).
Do not breathe dust / fumes.
Avoid release to the environment
If swallowed: Rinse mouth. Do NOT induce vomiting.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If on skin (or hair): Wash thoroughly with water.
If significant skin irritation or rash occurs: get medical advice or attention.
Immediately seek medical attention if symptoms are significant or persist.
Dispose of material in accordance with all regulations.

2.3 Additional Information None
2.3a HNOC – Hazards not otherwise classified: None known
2.3b Unknown Acute Toxicity: None known

SECTION III - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components	CAS No.	% by Weight
Polyvinyl Chloride	9002-86-2	60 – 100
Limestone Dust	1317-65-3	1 – 5
Titanium Dioxide	13463-67-7	1 – 5

The hollow truss pipes are filled with fully hydrated portland cement mortar. This mortar cannot be liberated from the truss pipes in a form which may present a physical or chemical hazard.

SECTION IV – FIRST AID MEASURES

4.1 Description of the first-aid measures
General information: This formed solid PVC product poses little or no immediate health or fire hazard. When product is subjected to welding, burning, melting, sawing, brazing, grinding or other processes, potentially hazardous airborne particulate and fumes may be generated. The hazards identified below are only relevant to these processes.
After inhalation: Remove person to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration. In case of unconsciousness, place patient stably in side position for transportation.
After skin contact: Wash skin with cool water and pH-neutral soap or a mild detergent. If significant skin irritation or rash occurs: get medical advice or attention.
After eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
After swallowing: Do not induce vomiting. If conscious, have the victim drink plenty of water and call a physician immediately. Never give anything by mouth to an unconscious person.
4.2 Most important symptoms/effects, acute and delayed
Inhalation: May cause damage to lungs through prolonged or repeated inhalation
Skin contact: Causes skin irritation
Eye Contact: Dust, particles and fumes cause eye irritation
Ingestion: Harmful if swallowed.
4.3 Indication of immediate medical attention and special treatment needed: None known.

SECTION V - FIRE FIGHTING MEASURES

5.1 Flammability of the Product: Nonflammable and noncombustible.
5.2 Suitable extinguishing agents: Treat for surrounding material
5.3 Special hazards arising from the substance or mixture: Thermal decomposition begins at 160 ^{o}C (320 ^{o}F).
5.3a Products of Combustion: Thermal decomposition products of polyvinyl chloride can include ethylene, benzene, toluene, 1,3,5-Trichlorobenzene, Naphthalene, Hydrogen Chloride and Phosgene
5.3b Explosion Hazards in Presence of Various Substances: Non-explosive in presence of shocks

SECTION VI – ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures: Wear personal protective equipment (See section VIII). Keep unprotected persons away.

6.2 Methods and material for containment and cleaning up:
For spills involving finely divided particles, clean-up personnel should be protected against contact with eyes and skin. IF material is in a dry state, avoid inhalation of dust. Dispose of unwanted materials and containers properly in accordance with all regulations.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND STORAGE

7.1 Handling
Precautions for safe handling: Wear protective equipment for hands to protect from sharp edges. Wear protective equipment to protect feet and body from injury due to the weight of this material. Further processing including welding, burning, & grinding, etc., has the potential for generating high concentrations of airborne particulates and fumes and should be evaluated and controlled as necessary. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
7.2 Storage
Requirements to be met by storerooms and receptacles: No special requirements.
Information about storage in one common storage facility: Not required.
Further information about storage conditions: Keep out of the reach of children...

SECTION VIII – EXPOSURE CONTROL MEASURES / PERSONAL PROTECTION

8.1 Components with limit values that require monitoring at the workplace:

Hazardous Components	PEL (OSHA) mg/M^3	TLV (ACGIH) mg/M^3
Vinyl Chloride	15 (total) 5 (resp)	1 (resp)
Limestone Dust	15 (total) 5 (resp)	1 (resp)
Titanium Dioxide	15 (total)	Not established

8.2 Exposure Controls
Use ventilation adequate to keep exposures below recommended exposure limits.
8.3 General protective and hygienic measures
Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.
8.3a Personal protective equipment
Protection of hands:
Wear gloves of adequate length to offer appropriate skin protection. Cut resistant gloves have been found to offer adequate protection for incidental contact.
Eye protection:
Wear approved eye protection (properly fitted dust- or splash-proof chemical safety glasses.
Respiratory protection:
Concentration in air of the various contaminants determines the extent of respiratory protection needed. Half-face, air-negative-pressure purifying respirator equipped with P100 filter is acceptable for concentrations up to 10 times the exposure limit. Full-face, negative-pressure, air-purifying respirator equipped with P100 filter is acceptable for concentrations up to 50 times the exposure limit. Respirators should be selected by and used under the direction of a trained health and safety professional, following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2).

SECTION IX - PHYSICAL/CHEMICAL CHARACTERISTICS

General Information	
Appearance	
Physical state	Solid.
Form	Pipe
Color	White.
Odor	Odorless.
Odor threshold	Not applicable.
pH	Not applicable.
Melting point/freezing point	Not available.
Initial boiling point and boiling rang	Not available.
Flash point	Not available.
Evaporation rate	Not applicable.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	
Flammability limit – lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not applicable.
Vapor density	Not applicable.
Relative density	Not applicable.
Solubility(ies)	Insoluble in water.
Partition coefficient (n-octanol/water)	Not applicable.
Auto-ignition temperature	Not applicable.
Decomposition temperature	160 ^{o}C (320 ^{o}F)
Viscosity	Not applicable.
VOC content:	Not applicable

SECTION X – STABILITY AND REACTIVITY

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal storage conditions. Keep in dry storage.

10.3 Possibility of hazardous reaction

No dangerous reaction known under conditions of normal use.

10.4 Thermal decomposition / conditions to be avoided

Thermal decomposition begins at 160 ^{o}C (320 ^{o}F). Thermal decomposition products of polyvinyl chloride can include ethylene, benzene, toluene, 1,3,5-Trichlorobenzene, Naphthalene, Hydrogen Chloride and Phosgene

10.5 Incompatible materials

None known under conditions of normal use...

10.6 Hazardous Decomposition or By-products

Thermal decomposition products of polyvinyl chloride can include ethylene, benzene, toluene, 1,3,5-Trichlorobenzene, Naphthalene, Hydrogen Chloride and Phosgene.

SECTION XI – TOXICOLOGICAL INFORMATION

11.1 Exposure Routes: Skin contact, eye contact, inhalation, or ingestion.

11.2 Symptoms related to physical/chemical/toxicological characteristics:

Inhalation: As sold/shipped is not likely form of exposure

Skin contact: As sold/shipped is not likely form of exposure.

Eye Contact: As sold/shipped is not likely form of exposure

Ingestion: As sold/shipped is not likely form of exposure.

11.3 Delayed, immediate and chronic effects of short-term and long-term exposure

This product does not present health hazards under normal conditions of use. However, mechanical operations associated with the use of PVC material can produce elevated concentrations of airborne PVC particulates. Contact with PVC particulates can be irritating to the eyes and respiratory tract. Avoid contact with the eyes and wear appropriate eye protection when necessary. Operations that produce airborne dusts should be conducted in well ventilated areas. When exposures to airborne PVC particulates exceed the applicable exposure limits, appropriate respiratory protection must be worn. When product is subjected to welding, burning, melting, sawing, brazing, grinding or other processes, potentially hazardous airborne particulate and fumes may be generated. The hazards identified below are only relevant to these processes.

Short Term

Skin Corrosion/Irritation: Causes skin irritation.

Skin Sensitization: May cause an allergic skin reaction.

Eye Damage/Irritation: Dust, particles and fumes cause eye irritation

Respiratory Sensitization: Not available

Specific Target Organ Toxicity-Single Exposure: Not available

Aspiration Hazard: Not available

Harmful if swallowed.

Long Term

Carcinogenicity: May cause cancer through prolonged or repeated inhalation

Germ Cell Mutagenicity: Not available

Reproductive Toxicity: Suspected of damaging fertility or the unborn child

Specific Target Organ Toxicity- Repeated Exposure: (Category 2) May cause damage to lungs through prolonged or repeated inhalation of dust or fumes.

Synergistic/Antagonistic Effects: Not available.

SECTION XII – ECOLOGICAL INFORMATION

Ecotoxicity

<1 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Mixed alkylmetallic mercaptoester sulfides	*= 0.64 mg/L 72 h EC50 = 0.28 mg/L NOEC Pseudokirchneriella subcapitata*	*> 4.4 mg/L 96 h LC50 Oncorhynchus mykiss*	*= 0.27 mg/L 48 h EC50 D. magna*
Aromatic hydroxyl	*= 6: 72 h Pseudokirchneriella subcapitata mg/L EC50 = 0.42: 72 h Desmodesmus subspicatus mg/L EC50*	*= 5: 48 h Oryzias latipes mg/L LC50*	
2-Mercaptoethanol	*= 12: 72 h Pseudomomas mg/L EC50 = 19: 96 h Desmodesmus subspicatus mg/L*	*= 46 - 100: 96 h Leuciscus idus mg/L LC50 static = 187: 96 h Poecilia reticulata mg/L OECD*	*= 1.52: 48 h Daphnia magna mg/L EC50*

Persistence and degradability No information available.

Bioaccumulation No information available.
Mobility No information available.

SECTION XIII – DISPOSAL CONSIDERATIONS

13.1 Waste Disposal Method

The material should be recycled whenever possible, but may be land filled. This product is not classified as a hazardous waste under the authority of the RCRA (40CFR 261) or CERCLA (40CFR 117&302). Disposal must be made in accordance with local, state and federal regulations.

13.2 Other disposal considerations

Uncleaned packaging

Recommendation: Disposal must be made in accordance with local, state and federal regulations.

Recommended cleansing agent: Not applicable

SECTION XIV – TRANSPORT INFORMATION

	DOT (U.S.)	TDG (Canada)
UN-Number	Not Regulated	Not Regulated
UN proper shipping name	Not Regulated	Not Regulated
Transport Hazard Class(es)	Not Regulated	Not Regulated
Packing Group (if applicable)	Not Regulated	Not Regulated

14.1 Environmental hazards:

Not Available

14.2 Transport in bulk according to Annex II of Marpol 73/78 and the IBC Code

Not available

14.3 Special precautions for user

Do not handle until all safety precautions have been read and understood.

SECTION XV – OTHER REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations/Legislations specific for the chemical

Canada

WHMIS Classification: Considered to be a hazardous material under the Hazardous Products Act as defined by the Hazardous Products Regulations and subject to the requirements of Health Canada's Workplace Hazardous Material Information (WHMIS). This document complies with the WHMIS requirements of the Hazardous Products Act (HPA) and the HPR.

15.2 US Federal Information

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Polyvinyl chloride (CAS 9002-86-2)	Cancer
Vinyl chloride (CAS 75-01-4)	Cancer
Polyvinyl chloride (CAS 9002-86-2)	Central nervous system
Vinyl chloride (CAS 75-01-4)	Central nervous system
Polyvinyl chloride (CAS 9002-86-2)	Liver
Vinyl chloride (CAS 75-01-4)	Liver
Polyvinyl chloride (CAS 9002-86-2)	Blood

Vinyl chloride (CAS 75-01-4)	Blood
Polyvinyl chloride (CAS 9002-86-2)	Flammability
Vinyl chloride (CAS 75-01-4)	Flammability

CERCLA Hazardous Substance List (40 CFR 302.4)

Vinyl chloride (CAS 75-01-4) LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA) Hazard categories Immediate Hazard - No

Delayed Hazard	No
Fire Hazard	No
Pressure Hazard	No
Reactivity Hazard	No
SARA 302 Extremely hazardous substance	No
SARA 311/312 Hazardous chemical	No

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Vinyl chloride (CAS 75-01-4)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Vinyl chloride (CAS 75-01-4)

Safe Drinking Water Act (SDWA)

Not regulated.

Food and Drug Administration (FDA)

Not regulated.

15.3 State Right to Know Laws

California Prop. 65 Components

WARNING: This product can expose you to chemicals including vinyl chloride which is known to the State of California to cause cancer For more information go to www.P65Warnings.ca.gov.

US. Massachusetts RTK - Substance List

Vinyl chloride (CAS 75-01-4)

US. New Jersey Worker and Community Right-to-Know Act

Polyvinyl chloride (CAS 9002-86-2)	500 lbs
Vinyl chloride (CAS 75-01-4)	500 lbs

US. Pennsylvania RTK - Hazardous Substances

Vinyl chloride (CAS 75-01-4)

US. Rhode Island RTK

Vinyl chloride (CAS 75-01-4)

SECTION XVI – OTHER INFORMATION

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NOTE: The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein.

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