

1. Product and Company Identification

Product identifier	Pipe-Dri (4297-75)
Other means of identification	Not available
Recommended use	Insulation
Recommended restrictions	This chemical/product is not and cannot be distributed in commerce (as defined in TSCA section 3(5)) or processed (as defined in TSCA section 3(13)) for consumer paint or coating removal.
Manufacturer information	Nu-Calgon 2611 Schuetz Road St. Louis, MO 63043 US Phone: 314-469-7000 / 800-554-5499 Emergency Phone: 1-800-424-9300 (CHEMTREC)
Supplier	See above.

2. Hazards Identification

Physical hazards	Flammable aerosols	Category 1
	Gases under pressure	Liquefied gas
Health hazards	Acute toxicity, oral	Category 4
	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
	Carcinogenicity	Category 2
	Specific target organ toxicity, repeated exposure	Category 2
Environmental hazards	Not classified.	
WHMIS 2015 defined hazards	Not classified	
Label elements		



Signal word Danger

Hazard statement Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.

Precautionary statement

Prevention Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Obtain special instructions before use. Wear protective gloves/protective clothing/eye protection/face protection. Do not handle until all safety precautions have been read and understood. Do not breathe gas.

Response IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.
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 advice/attention.
IF exposed or concerned: Get medical advice/attention.

Storage Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store locked up. Store in a well-ventilated place.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

WHMIS 2015: Health Hazard(s) not otherwise classified (HHNOC) None known

WHMIS 2015: Physical Hazard(s) not otherwise classified (PHNOC) None known

Hazard(s) not otherwise classified (HNOC) None known.

3. Composition/Information on Ingredients

Mixture

Chemical name	Common name and synonyms	CAS number	%
Methylene chloride		75-09-2	15-40*
Octadecanoic acid		57-11-4	1-5*
Octadecanoic acid, zinc salt		557-05-1	1-5*
Petroleum gases, liquefied, sweetened		68476-86-8	10-30*

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition comments

US GHS: The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

*CANADA GHS: The exact percentage (concentration) of composition has been withheld as a trade secret.

4. First Aid Measures

Inhalation	If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.
Skin contact	IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.
Eye contact	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 advice/attention.
Ingestion	Not likely, due to the form of the product. Rinse mouth. Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious or is convulsing. Obtain medical attention.
Most important symptoms/effects, acute and delayed	Dizziness. Nausea. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically.
General information	IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

5. Fire Fighting Measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide.
Unsuitable extinguishing media	Not available.
Specific hazards arising from the chemical	Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire-fighting equipment/instructions	In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Cool containers exposed to flames with water until well after the fire is out. In the event of fire and/or explosion do not breathe fumes.
General fire hazards	Extremely flammable aerosol. Contents under pressure. Pressurized container may explode when exposed to heat or flame.
Hazardous combustion products	May include and are not limited to: Oxides of carbon. Hydrogen chloride.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Do not breathe gas. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground. Do not discharge into lakes, streams, ponds or public waters.

7. Handling and Storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not smoke while using or until sprayed surface is thoroughly dry. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Do not breathe gas. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. When using, do not eat, drink or smoke. Use only in well-ventilated areas. Avoid prolonged exposure. Wear appropriate personal protective equipment. Wash thoroughly after handling. Use good industrial hygiene practices in handling this material.

Conditions for safe storage, including any incompatibilities

Level 1 Aerosol.

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not handle or store near an open flame, heat or other sources of ignition. Do not puncture, incinerate or crush. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Stored containers should be periodically checked for general condition and leakage. Keep out of reach of children.

8. Exposure Controls/Personal Protection

Occupational exposure limits

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Type	Value
Methylene chloride (CAS 75-09-2)	TWA	174 mg/m3 50 ppm
Octadecanoic acid (CAS 57-11-4)	TWA	10 mg/m3
Octadecanoic acid, zinc salt (CAS 557-05-1)	TWA	10 mg/m3

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Type	Value	Form
Methylene chloride (CAS 75-09-2)	TWA	25 ppm	
Octadecanoic acid (CAS 57-11-4)	TWA	10 mg/m3	
Octadecanoic acid, zinc salt (CAS 557-05-1)	STEL	20 mg/m3	Total dust.
	TWA	3 mg/m3 10 mg/m3	Respirable fraction. Total dust.

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

Components	Type	Value	Form
Methylene chloride (CAS 75-09-2)	TWA	50 ppm	
Octadecanoic acid (CAS 57-11-4)	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
Octadecanoic acid, zinc salt (CAS 557-05-1)	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Type	Value	
Methylene chloride (CAS 75-09-2)	TWA	50 ppm	
Octadecanoic acid (CAS 57-11-4)	TWA	10 mg/m3	
Octadecanoic acid, zinc salt (CAS 557-05-1)	TWA	10 mg/m3	

Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

Components	Type	Value	
Methylene chloride (CAS 75-09-2)	TWA	174 mg/m3	
		50 ppm	
Octadecanoic acid, zinc salt (CAS 557-05-1)	TWA	10 mg/m3	

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

Components	Type	Value	
Methylene chloride (CAS 75-09-2)	STEL	125 ppm	
	TWA	25 ppm	

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Octadecanoic acid, zinc salt (CAS 557-05-1)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Methylene chloride (CAS 75-09-2)	TWA	50 ppm	
Octadecanoic acid (CAS 57-11-4)	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
Octadecanoic acid, zinc salt (CAS 557-05-1)	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
Octadecanoic acid, zinc salt (CAS 557-05-1)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total

Biological limit values**ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time
Methylene chloride (CAS 75-09-2)	0.3 mg/L	Dichloromethane	Urine	*

* - For sampling details, please see the source document.

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin protection	
Hand protection	Impervious gloves. Confirm with reputable supplier first.
Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. As required by employer code.
Respiratory protection	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respirator 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), CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2).
Thermal hazards	Not applicable.
General hygiene considerations	When using do not smoke. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. When using do not eat or drink.

9. Physical and Chemical Properties

Appearance	Aerosol.
Physical state	Gas.
Form	Spray
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Pour point	Not available.
Specific gravity	1.21 - 1.25
Partition coefficient (n-octanol/water)	Not available.
Flash point	Not available.
Evaporation rate	Not available.
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	55 - 65 psig
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	27-33 sec (Zahn Cup 1)
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
VOC (Weight %)	85.57%

10. Stability and Reactivity

Reactivity	This product may react with strong oxidizing agents.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.

Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Heat. Do not mix with other chemicals.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	May include and are not limited to: Hydrogen chloride. Oxides of carbon.

11. Toxicological Information

Routes of exposure	Eye, Skin contact, Inhalation, Ingestion.
Information on likely routes of exposure	
Ingestion	Harmful if swallowed. May cause stomach distress, nausea or vomiting.
Inhalation	May cause damage to organs through prolonged or repeated exposure by inhalation.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye irritation.
Symptoms related to the physical, chemical and toxicological characteristics	Dizziness. Nausea. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

Information on toxicological effects

Acute toxicity Harmful if swallowed.

Components	Species	Test Results
Methylene chloride (CAS 75-09-2)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	2700 mg/kg
	Rat	> 2000 mg/kg, Days
<i>Inhalation</i>		
LC50	Guinea pig	11600 ppm, 6 Hours, HSDB 40.2 mg/L, 6 Hours, HSDB
	Mouse	49000 mg/m ³ , 7 Hours 14400 ppm, 7 Hours, HSDB 56.2 mg/L, 7 Hours, HSDB 51.5 mg/L, 2 Hours, HSDB 49.1 mg/L, 6 Hours, HSDB
	Rat	76000 mg/l/4h 14250 mg/m ³ 2000 mg/L, 15 Minutes, HSDB 88 mg/L, 900 Days, HSDB 79 mg/L, 2 Hours, HSDB 52 mg/L, 6 Hours, HSDB
	Rat	> 2000 mg/kg 1410 mg/kg
<i>Oral</i>		
LD50	Rat	> 2000 mg/kg 1410 mg/kg
Octadecanoic acid (CAS 57-11-4)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg, 24 Hours, ECHA 5000 mg/kg, LOLI, CCOHS
<i>Inhalation</i>		
LC50	Rat	> 0.2 mg/L, 4 Hours, ECHA
<i>Oral</i>		
LD50	Rat	> 6000 mg/kg, ECHA > 5000 mg/kg, ECHA > 2000 mg/kg, ECHA

Components	Species	Test Results
		5000 mg/kg, CCOHS 4.6 g/kg, HSDB
Octadecanoic acid, zinc salt (CAS 557-05-1)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg 6800 mg/kg, 24 Hours
	Rat	2000 mg/kg
<i>Inhalation</i>		
LC50	Not available	
	Rat	> 200 mg/L, 1 Hours 5.9 mg/L, 4 Hours
<i>Oral</i>		
LD50	Rat	> 5000 mg/kg >= 5000 mg/kg
Petroleum gases, liquefied, sweetened (CAS 68476-86-8)		
Acute		
<i>Dermal</i>		
LD50	Not available	
<i>Inhalation</i>		
LC50	Mouse	539600 ppm, 120 Minutes, ECHA 520400 ppm, 120 Minutes, ECHA 1237 mg/L, 120 Minutes, ECHA 57 %, 120 Minutes, ECHA 52 %, 120 Minutes, ECHA
	Rat	> 800000 ppm, 10 Minutes, ECHA 1442738 mg/m3, 10 Minutes, ECHA 1354944 mg/m3, 10 Minutes, ECHA 570000 ppm, 10 Minutes, ECHA 1443 mg/L, 10 Minutes, ECHA 1355 mg/L, 10 Minutes, ECHA
<i>Oral</i>		
LD50	Not available	
Skin corrosion/irritation	Causes skin irritation.	
Exposure minutes	Not available.	
Erythema value	Not available.	
Oedema value	Not available.	
Serious eye damage/eye irritation	Causes serious eye irritation.	
Corneal opacity value	Not available.	
Iris lesion value	Not available.	
Conjunctival reddening value	Not available.	
Conjunctival oedema value	Not available.	
Recover days	Not available.	
Respiratory or skin sensitization		
ACGIH sensitization		
Propylene oxide (CAS 75-56-9)	Dermal sensitization	
Canada - Alberta OELs: Irritant		
Octadecanoic acid (CAS 57-11-4)	Irritant	

Octadecanoic acid, zinc salt (CAS 557-05-1)	Irritant
Canada - British Columbia OELs: Respiratory or skin sensitiser	
Propylene oxide (CAS 75-56-9)	Capable of causing respiratory, dermal or conjunctival sensitization.
Canada - Manitoba OELs Hazard: Dermal sensitization	
Propylene oxide (CAS 75-56-9)	Dermal sensitization
Canada - Saskatchewan OELs Hazard Data: Sensitiser	
Propylene oxide (CAS 75-56-9)	Sensitizer.
Respiratory sensitization	Not a respiratory sensitizer.
Skin sensitization	This product is not expected to cause skin sensitization.
Mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. Methylene chloride is considered mutagenic based on positive results obtained in mice exposed by inhalation.
Carcinogenicity	Suspected of causing cancer. See below.
ACGIH Carcinogens	
Benzene, ethyl- (CAS 100-41-4)	A3 Confirmed animal carcinogen with unknown relevance to humans.
Methylene chloride (CAS 75-09-2)	A3 Confirmed animal carcinogen with unknown relevance to humans.
Propylene oxide (CAS 75-56-9)	A3 Confirmed animal carcinogen with unknown relevance to humans.
Canada - Manitoba OELs: carcinogenicity	
DICHLOROMETHANE (CAS 75-09-2)	Confirmed animal carcinogen with unknown relevance to humans.
ETHYL BENZENE (CAS 100-41-4)	Confirmed animal carcinogen with unknown relevance to humans.
PROPYLENE OXIDE (CAS 75-56-9)	Confirmed animal carcinogen with unknown relevance to humans.
Canada - Quebec OELs: Carcinogen category	
Methylene chloride (CAS 75-09-2)	Suspected carcinogenic effect in humans.
Propylene oxide (CAS 75-56-9)	Suspected carcinogenic effect in humans.
IARC Monographs. Overall Evaluation of Carcinogenicity	
Benzene, ethyl- (CAS 100-41-4)	Volume 77 - 2B Possibly carcinogenic to humans.
Methylene chloride (CAS 75-09-2)	Volume 71, Volume 110 - 2A Probably carcinogenic to humans.
Propylene oxide (CAS 75-56-9)	Volume 60 - 2B Possibly carcinogenic to humans.
US - California Proposition 65 - CRT: Listed date/Carcinogenic substance	
Benzene, ethyl- (CAS 100-41-4)	
Methylene chloride (CAS 75-09-2)	
Propylene oxide (CAS 75-56-9)	
US NTP Report on Carcinogens: Anticipated carcinogen	
Methylene chloride (CAS 75-09-2)	Reasonably Anticipated to be a Human Carcinogen.
Propylene oxide (CAS 75-56-9)	Reasonably Anticipated to be a Human Carcinogen.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	
Methylene chloride (CAS 75-09-2)	Cancer
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Teratogenicity	Not available.
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	Not an aspiration hazard.
Chronic effects	May cause damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

12. Ecological Information

Ecotoxicity See below

Ecotoxicological data

Components	Species	Test Results
Methylene chloride (CAS 75-09-2)		
Algae	IC50	Algae 500 mg/L, 72 Hours
Crustacea	EC50	Daphnia 1689.5 mg/L, 48 Hours
Aquatic		
Crustacea	EC50	Water flea (Daphnia magna) 1250 mg/L, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas) 140.8 - 277.8 mg/L, 96 hours

Persistence and degradability	No data is available on the degradability of this product.
Bioaccumulative potential	
Mobility in soil	No data available.
Mobility in general	Not available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation)

13. Disposal Considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

14. Transport Information

Transport of Dangerous Goods (TDG) Proof of Classification	Classification Method: Classified as per Part 2, Sections 2.1 – 2.8 of the Transportation of Dangerous Goods Regulations. If applicable, the technical name and the classification of the product will appear below.
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U.S. Department of Transportation (DOT)

Basic shipping requirements:

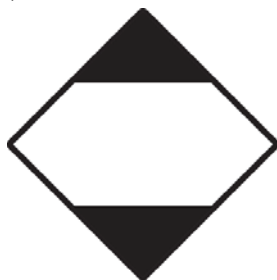
UN number	UN1950
Proper shipping name	Aerosols, flammable, (each not exceeding 1 L capacity)
Hazard class	Limited Quantity - US
Special provisions	N82
Packaging exceptions	306
Packaging non bulk	None
Packaging bulk	None

Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

UN number	UN1950
Proper shipping name	AEROSOLS, flammable, containing substances in Class 6.1, packing group III
Hazard class	Limited Quantity - Canada
Special provisions	80
Packaging exceptions	< 0.125 L - Limited Quantity

DOT; TDG



15. Regulatory Information

Canadian federal regulations	This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.
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Canada CEPA Schedule I: Listed substance

Methylene chloride (CAS 75-09-2)	Listed.
Octadecanoic acid, zinc salt (CAS 557-05-1)	Listed.
Propylene oxide (CAS 75-56-9)	Listed.

Canada DSL Challenge Substances: Listed substance

Propylene oxide (CAS 75-56-9)	Listed.
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Canada Priority Substances List (Second List): Listed substance

Octadecanoic acid, zinc salt (CAS 557-05-1)	Listed.
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Canada SNAC Reporting Requirements: Listed substance/Publication date

Propylene oxide (CAS 75-56-9) 12/21/2011 Listed.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Precursor Control Regulations

Not regulated.

WHMIS 2015 Exemptions

Not applicable

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) All components of this material are on the TSCA Inventory. This chemical/product is not and cannot be distributed in commerce (as defined in TSCA section 3(5)) or processed (as defined in TSCA section 3(13)) for consumer paint or coating removal.

CERCLA Hazardous Substance List (40 CFR 302.4)

Benzene, ethyl- (CAS 100-41-4) Listed.

Methylene chloride (CAS 75-09-2) Listed.

Octadecanoic acid, zinc salt (CAS 557-05-1) Listed.

Propylene oxide (CAS 75-56-9) Listed.

US EPCRA Section 304 Extremely Haz. Subs. & CERCLA Haz. Subs.: Section 304 EHS reportable quantity

Propylene oxide (CAS 75-56-9) 100 LBS

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

Methylene chloride (CAS 75-09-2)

- Cancer
- Heart
- Central nervous system
- Liver
- Skin irritation
- Eye irritation

Superfund Amendments and Reauthorization Act of 1986 (SARA)**Hazard categories**

Immediate Hazard - Yes
 Delayed Hazard - Yes
 Fire Hazard - Yes
 Pressure Hazard - Yes
 Reactivity Hazard - No

SARA 302 Extremely hazardous substance

No

SARA 311/312 Hazardous chemical

No

SARA 313 (TRI reporting)

Chemicalname	CASnumber	%bywt.
Methylene chloride	75-09-2	15-40*
Octadecanoic acid, zinc salt	557-05-1	1-5*

Other federal regulations**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Benzene, ethyl- (CAS 100-41-4)
 Methylene chloride (CAS 75-09-2)
 Propylene oxide (CAS 75-56-9)

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

Propylene oxide (CAS 75-56-9)

US state regulations

See below

US - California Hazardous Substances (Director's): Listed substance

Benzene, ethyl- (CAS 100-41-4) Listed.
 Methylene chloride (CAS 75-09-2) Listed.
 Octadecanoic acid, zinc salt (CAS 557-05-1) Listed.
 Propylene oxide (CAS 75-56-9) Listed.

US - Illinois Chemical Safety Act: Listed substance

Benzene, ethyl- (CAS 100-41-4)
 Methylene chloride (CAS 75-09-2)
 Octadecanoic acid, zinc salt (CAS 557-05-1)
 Propylene oxide (CAS 75-56-9)

US - Louisiana Spill Reporting: Listed substance

Benzene, ethyl- (CAS 100-41-4) Listed.
 Methylene chloride (CAS 75-09-2) Listed.
 Octadecanoic acid, zinc salt (CAS 557-05-1) Listed.

Propylene oxide (CAS 75-56-9) Listed.

US - Michigan Critical Materials Register: Parameter number

Methylene chloride (CAS 75-09-2) METHYLENE CHLORIDE

Octadecanoic acid, zinc salt (CAS 557-05-1) ZINC

US - Minnesota Haz Subs: Listed substance

Benzene, ethyl- (CAS 100-41-4) Listed.

Methylene chloride (CAS 75-09-2) Listed.

Octadecanoic acid (CAS 57-11-4) Listed.

Octadecanoic acid, zinc salt (CAS 557-05-1) Listed.

Propylene oxide (CAS 75-56-9) Listed.

US - New Jersey RTK - Substances: Listed substance

Benzene, ethyl- (CAS 100-41-4)

Methylene chloride (CAS 75-09-2)

Octadecanoic acid, zinc salt (CAS 557-05-1)

Propylene oxide (CAS 75-56-9)

US - North Carolina Toxic Air Pollutants: Listed substance

Methylene chloride (CAS 75-09-2)

US - Pennsylvania RTK - Hazardous Substances: Special hazard

Methylene chloride (CAS 75-09-2)

Propylene oxide (CAS 75-56-9)

US - Texas Effects Screening Levels Hazard Data: Simple asphyxiant

Petroleum gases, liquefied, sweetened (CAS 68476-86-8)

US - Texas Effects Screening Levels: Listed substance

Benzene, ethyl- (CAS 100-41-4) Listed.

Methylene chloride (CAS 75-09-2) Listed.

Octadecanoic acid (CAS 57-11-4) Listed.

Octadecanoic acid, zinc salt (CAS 557-05-1) Listed.

Petroleum gases, liquefied, sweetened (CAS 68476-86-8) Listed.

Propylene oxide (CAS 75-56-9) Listed.

US - Washington Chemical of High Concern to Children: Listed substance

Benzene, ethyl- (CAS 100-41-4)

Methylene chloride (CAS 75-09-2)

US. Massachusetts RTK - Substance List

Benzene, ethyl- (CAS 100-41-4)

Methylene chloride (CAS 75-09-2)

Octadecanoic acid, zinc salt (CAS 557-05-1)

Propylene oxide (CAS 75-56-9)

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

Benzene, ethyl- (CAS 100-41-4)

Methylene chloride (CAS 75-09-2)

Octadecanoic acid, zinc salt (CAS 557-05-1)

Propylene oxide (CAS 75-56-9)

US. Pennsylvania Worker and Community Right-to-Know Law

Benzene, ethyl- (CAS 100-41-4)

Methylene chloride (CAS 75-09-2)

Octadecanoic acid, zinc salt (CAS 557-05-1)

Propylene oxide (CAS 75-56-9)

US. Rhode Island RTK

Benzene, ethyl- (CAS 100-41-4)

Methylene chloride (CAS 75-09-2)

Octadecanoic acid, zinc salt (CAS 557-05-1)

Propylene oxide (CAS 75-56-9)

US. California Proposition 65



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

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Benzene, ethyl- (CAS 100-41-4) Listed: June 11, 2004

Methylene chloride (CAS 75-09-2) Listed: April 1, 1988

Propylene oxide (CAS 75-56-9) Listed: October 1, 1988

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No

Country(s) or region

Inventory name

On inventory (yes/no)*

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

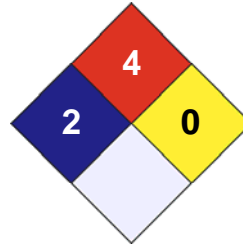
Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

HEALTH	*	2
FLAMMABILITY		4
PHYSICAL HAZARD		0
PERSONAL PROTECTION		X



Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available. Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

Issue date

26-August-2019

Version #

1.1

Effective date

26-August-2019

Prepared by

Nu-Calgon Technical Service Phone: (314) 469-7000

Other information

For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.

SAFETY DATA SHEET


Sid Harvey item # 4297-75

SDS # Z0411

1. Product and Company Identification

Product identifier	Pipe-Dri (4297-75)
Other means of identification	Not available
Recommended use	Insulation
Recommended restrictions	None known.
Manufacturer	Nu-Calgon 2008 Altom Court St. Louis, MO 63146 US Phone: 314-469-7000 / 800-554-5499 Emergency Phone: 1-800-424-9300 (CHEMTREC)

2. Hazards Identification

Physical hazards	Flammable aerosols	Category 1
	Gases under pressure	Liquefied gas
Health hazards	Acute toxicity, oral	Category 4
	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
	Carcinogenicity	Category 2
	Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation
	Specific target organ toxicity, repeated exposure	Category 2
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		

Signal word Danger

Hazard statement Extremely flammable aerosol.
Contains gas under pressure; may explode if heated.
Harmful if swallowed.
Causes skin irritation.
Causes serious eye irritation.
May cause respiratory irritation.
Suspected of causing cancer.
May cause damage to organs through prolonged or repeated exposure.

Precautionary statement

Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe gas. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

Response If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth.
If on skin: Wash with plenty of water. Specific treatment (see this label). If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.
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 advice/attention.
If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.
If exposed or concerned: Get medical advice/attention.

Storage Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC) None known.

3. Composition/Information on Ingredients

Mixture

Chemical name	Common name and synonyms	CAS number	%
Methylene chloride		75-09-2	30-60
Propane		74-98-6	10-30
Isobutane		75-28-5	7-13
Octadecanoic acid		57-11-4	1-5
Octadecanoic acid, zinc salt		557-05-1	1-5
Benzene, ethyl-		100-41-4	0.1-1

Composition comments US GHS: The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

4. First Aid Measures

Inhalation	If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.
Skin contact	If on skin: Wash with plenty of water. Specific treatment (see product label). If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.
Eye contact	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 advice/attention.
Ingestion	If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth.
Most important symptoms/effects, acute and delayed	Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Immediate medical attention is required. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children. Do not puncture or incinerate container. Do not store at temperatures above 49°C. Keep away from sources of ignition. No smoking.

5. Fire Fighting Measures

Suitable extinguishing media	Powder. Carbon dioxide (CO ₂). Water Fog.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Contents under pressure. Pressurized container may explode when exposed to heat or flame. Cool containers with flooding quantities of water until well after fire is out. Firefighters should wear a self-contained breathing apparatus.
Special protective equipment and precautions for firefighters	Firefighters should wear full protective clothing including self contained breathing apparatus.
Fire-fighting equipment/instructions	In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers. Containers should be cooled with water to prevent vapor pressure build up. Cool containers with flooding quantities of water until well after fire is out. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Cool containers exposed to flames with water until well after the fire is out. In the event of fire and/or explosion do not breathe fumes.
General fire hazards	Extremely flammable aerosol.
Hazardous combustion products	May include and are not limited to: Oxides of carbon. Hydrogen chloride.
Explosion data	
Sensitivity to mechanical impact	Not available.
Sensitivity to static discharge	Not available.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep out of low areas. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid breathing gas. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Refer to attached safety data sheets and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

7. Handling and Storage

Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Use only with adequate ventilation. Avoid prolonged exposure. Use personal protective equipment as required. When using, do not eat, drink or smoke. Wash thoroughly after handling. Use good industrial hygiene practices in handling this material. Pressurized container: Do not pierce or burn, even after use. Avoid breathing vapors or mists of this product. Do not get this material in your eyes, on your skin, or on your clothing.
Conditions for safe storage, including any incompatibilities	Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. This material can accumulate static charge which may cause spark and become an ignition source. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Keep out of reach of children.

8. Exposure Controls/Personal Protection

Occupational exposure limits

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

Components	Type	Value
Methylene chloride (CAS 75-09-2)	STEL	125 ppm
	TWA	25 ppm

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Benzene, ethyl- (CAS 100-41-4)	PEL	435 mg/m ³	
		100 ppm	
Octadecanoic acid, zinc salt (CAS 557-05-1)	PEL	5 mg/m ³	Respirable fraction.
		15 mg/m ³	Total dust.
Propane (CAS 74-98-6)	PEL	1800 mg/m ³	
		1000 ppm	

US. ACGIH Threshold Limit Values

Components	Type	Value
Benzene, ethyl- (CAS 100-41-4)	TWA	20 ppm
Isobutane (CAS 75-28-5)	STEL	1000 ppm
Methylene chloride (CAS 75-09-2)	TWA	50 ppm
Octadecanoic acid (CAS 57-11-4)	TWA	10 mg/m ³
Octadecanoic acid, zinc salt (CAS 557-05-1)	TWA	10 mg/m ³

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
Benzene, ethyl- (CAS 100-41-4)	STEL	545 mg/m ³	

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
		125 ppm	
	TWA	435 mg/m3	
		100 ppm	
Isobutane (CAS 75-28-5)	TWA	1900 mg/m3	
		800 ppm	
Octadecanoic acid, zinc salt (CAS 557-05-1)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total
Propane (CAS 74-98-6)	TWA	1800 mg/m3	
		1000 ppm	

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
Benzene, ethyl- (CAS 100-41-4)	0.7 g/g	Sum of mandelic acid and phenylglyoxylic acid	Creatinine in urine	*
Methylene chloride (CAS 75-09-2)	0.3 mg/l	Dichloromethane	Urine	*

* - For sampling details, please see the source document.

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear chemical goggles.

Skin protection

Hand protection

Rubber gloves. Confirm with a reputable supplier first.

Other

Wear appropriate chemical resistant clothing. As required by employer code.

Respiratory protection

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

Thermal hazards

Not applicable.

General hygiene considerations

When using, do not eat, drink or smoke. Wash hands and face before breaks and immediately after handling the product.

9. Physical and Chemical Properties

Appearance	Spray
Physical state	Gas.
Form	Aerosol
Color	Cloudy White
Odor	Ethereal
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	104 °F (40 °C)
Pour point	Not available.
Specific gravity	1.37 - 1.41
Partition coefficient (n-octanol/water)	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
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	45 - 55 psig
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	7 mm ² /s @ 25°C
Other information	
Flame extension	> 45 cm
Flammability (flash back)	No
Heat of combustion	Level 1

10. Stability and Reactivity

Reactivity	This product may react with strong oxidizing agents.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Do not mix with other chemicals. Aerosol containers are unstable at temperatures above 49°C (120.2°F).
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon. Hydrogen chloride.

11. Toxicological Information

Routes of exposure	Eye, Skin contact, Inhalation, Ingestion.
Information on likely routes of exposure	
Ingestion	Harmful if swallowed.
Inhalation	Prolonged inhalation may be harmful. May cause damage to organs by inhalation. May cause irritation to the respiratory system.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye irritation.
Symptoms related to the physical, chemical and toxicological characteristics	Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

Information on toxicological effects

Acute toxicity Harmful if swallowed. May cause respiratory irritation.

Components	Species	Test Results
Benzene, ethyl- (CAS 100-41-4)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	15380 mg/kg
<i>Inhalation</i>		
LC50	Rat	4000 ppm, 4 Hours
<i>Oral</i>		
LD50	Rat	5460 mg/kg 3500 mg/kg
Isobutane (CAS 75-28-5)		
Acute		
<i>Dermal</i>		
LD50	Not available	
<i>Inhalation</i>		
LC50	Rat	658 mg/l/4h

Components	Species	Test Results
<i>Oral</i> LD50	Not available	
Methylene chloride (CAS 75-09-2)		
Acute		
<i>Dermal</i> LD50	Rabbit	2700 mg/kg
<i>Inhalation</i> LC50	Guinea pig	11600 ppm, 6 Hours 40.2 mg/l, 6 Hours
	Mouse	14400 ppm, 7 Hours 56.2 mg/l, 7 Hours 51.5 mg/l, 2 Hours 49.1 mg/l, 6 Hours
	Rat	76000 mg/l/4h 14250 mg/m3 2000 mg/l, 15 Minutes 88 mg/l, 900 Days 79 mg/l, 2 Hours 52 mg/l, 6 Hours
<i>Oral</i> LD50	Rat	1410 mg/kg
Octadecanoic acid (CAS 57-11-4)		
Acute		
<i>Dermal</i> LD50	Rabbit	5000 mg/kg
<i>Inhalation</i> LC50		
<i>Oral</i> LD50	Rat	5000 mg/kg 4.6 g/kg
<i>Other</i> LD50	Mouse	23 mg/kg
	Rat	21.5 mg/kg
Octadecanoic acid, zinc salt (CAS 557-05-1)		
Acute		
<i>Dermal</i> LD50	Rat	2000 mg/kg
<i>Inhalation</i> LC50	Not available	
<i>Oral</i> LD50	Rat	>= 5000 mg/kg
Propane (CAS 74-98-6)		
Acute		
<i>Inhalation</i> LC50	Rat	> 1442.8 mg/l, 15 Minutes
<i>Oral</i> LD50	Not available	
Skin corrosion/irritation	Causes skin irritation.	
Exposure minutes	Not available.	
Erythema value	Not available.	

Oedema value	Not available.
Serious eye damage/eye irritation	Causes serious eye irritation.
Corneal opacity value	Not available.
Iris lesion value	Not available.
Conjunctival reddening value	Not available.
Conjunctival oedema value	Not available.
Recover days	Not available.
Respiratory or skin sensitization	
Respiratory sensitization	Not available.
Skin sensitization	Prolonged or repeated exposure can cause drying, defatting and dermatitis.
Germ cell mutagenicity	Methylene chloride is considered mutagenic based on positive results obtained in mice exposed by inhalation.
Mutagenicity	Methylene chloride is considered mutagenic based on positive results obtained in mice exposed by inhalation.
Carcinogenicity	Suspected of causing cancer.
ACGIH Carcinogens	
Benzene, ethyl- (CAS 100-41-4)	A3 Confirmed animal carcinogen with unknown relevance to humans.
Methylene chloride (CAS 75-09-2)	A3 Confirmed animal carcinogen with unknown relevance to humans.
Octadecanoic acid (CAS 57-11-4)	A4 Not classifiable as a human carcinogen.
Octadecanoic acid, zinc salt (CAS 557-05-1)	A4 Not classifiable as a human carcinogen.
IARC Monographs. Overall Evaluation of Carcinogenicity	
Benzene, ethyl- (CAS 100-41-4)	Volume 77 - 2B Possibly carcinogenic to humans.
Methylene chloride (CAS 75-09-2)	Volume 71 - 2B Possibly carcinogenic to humans.
US - California Proposition 65 - CRT: Listed date/Carcinogenic substance	
Benzene, ethyl- (CAS 100-41-4)	Carcinogenic.
Methylene chloride (CAS 75-09-2)	Carcinogenic.
US NTP Report on Carcinogens: Anticipated carcinogen	
Methylene chloride (CAS 75-09-2)	Reasonably Anticipated to be a Human Carcinogen.
Reproductive toxicity	Non-hazardous by WHMIS/OSHA criteria.
Teratogenicity	Xylene is considered fetotoxic in humans, based on observations of reduced fetal weight, delayed ossification and persistent behavioural effects in animal studies in the absence of maternal toxicity.
Specific target organ toxicity - single exposure	Respiratory tract irritation.
Specific target organ toxicity - repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	Not available.
Chronic effects	Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects. May cause damage to organs through prolonged or repeated exposure.
Further information	Not available.
Name of Toxicologically Synergistic Products	Not available.

12. Ecological Information

Ecotoxicity	See below		
Components		Species	Test Results
Benzene, ethyl- (CAS 100-41-4)			
Algae	IC50	Algae	4.6 mg/L, 72 Hours
Crustacea	EC50	Daphnia	2.1 mg/L, 48 Hours
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	1.37 - 4.4 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	7.5 - 11 mg/l, 96 hours
Methylene chloride (CAS 75-09-2)			
Algae	IC50	Algae	500 mg/L, 72 Hours
Crustacea	EC50	Daphnia	1689.5 mg/L, 48 Hours

Components	Species	Test Results
Aquatic		
Crustacea	EC50	Water flea (Daphnia magna) 1250 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas) 140.8 - 277.8 mg/l, 96 hours
Persistence and degradability	No data is available on the degradability of this product.	
Bioaccumulative potential	No data available.	
Mobility in soil	No data available.	
Mobility in general	Not available.	
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.	

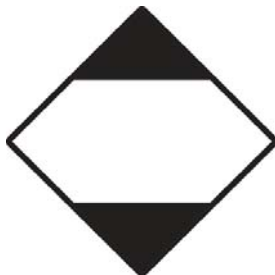
13. Disposal Considerations

Disposal instructions	Consult authorities before disposal. Contents under pressure. Do not puncture, incinerate or crush. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
US RCRA Hazardous Waste U List: Reference	
Methylene chloride (CAS 75-09-2)	U080
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not re-use empty containers.

14. Transport Information

General	Canada: TDG Proof of Classification: In accordance with Part 2.2.1 (SOR/2014-152) of the Transportation of Dangerous Goods Regulations, we certify that the classification of this product is correct as of the SDS date of issue. If applicable, the technical name and the classification of the product will appear below.
U.S. Department of Transportation (DOT)	
Basic shipping requirements:	
UN number	UN1950
Proper shipping name	Aerosols, flammable, (each not exceeding 1 L capacity)
Hazard class	Limited Quantity - US
Special provisions	N82
Packaging exceptions	306
Packaging non bulk	None
Packaging bulk	None
Transportation of Dangerous Goods (TDG - Canada)	
Basic shipping requirements:	
UN number	UN1950
Proper shipping name	AEROSOLS, flammable, containing substances in Class 6.1, packing group III
Hazard class	Limited Quantity - Canada
Special provisions	80
Packaging exceptions	< 0.125 L - Limited Quantity

DOT; TDG



15. Regulatory Information

Canadian federal regulations This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

Canada CEPA Schedule I: Listed substance

Methylene chloride (CAS 75-09-2) Listed.
Octadecanoic acid, zinc salt (CAS 557-05-1) Listed.

Canada DSL Challenge Substances: Listed substance

Isobutane (CAS 75-28-5) Listed.

Canada NPRI VOCs with Additional Reporting Requirements: Mass reporting threshold/Identification Number

Isobutane (CAS 75-28-5) 1 TONNES
Propane (CAS 74-98-6) 1 TONNES

Canada Priority Substances List (Second List): Listed substance

Octadecanoic acid, zinc salt (CAS 557-05-1) Listed.

Canada WHMIS Ingredient Disclosure: Threshold limits

Benzene, ethyl- (CAS 100-41-4) 0.1 %
Methylene chloride (CAS 75-09-2) 0.1 %
Octadecanoic acid (CAS 57-11-4) 1 %
Octadecanoic acid, zinc salt (CAS 557-05-1) 1 %

WHMIS status Controlled

WHMIS classification Class A - Compressed Gas, Class B - Division 5 - Flammable Aerosol, Class D - Division 1B, 2A, 2B

WHMIS labeling



US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

Benzene, ethyl- (CAS 100-41-4) 0.1 %
Methylene chloride (CAS 75-09-2) 0.1 %
Octadecanoic acid, zinc salt (CAS 557-05-1) 1.0 % N982

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

Benzene, ethyl- (CAS 100-41-4) Listed.
Methylene chloride (CAS 75-09-2) Listed.
Octadecanoic acid, zinc salt (CAS 557-05-1) Listed. N982

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

Not regulated.

US CWA Section 311 Hazardous Substances: Listed substance

Benzene, ethyl- (CAS 100-41-4) Listed.

US CWA Section 307(a)(1) Toxic Pollutants: Listed substance

Benzene, ethyl- (CAS 100-41-4) Listed.
Methylene chloride (CAS 75-09-2) Listed.
Octadecanoic acid, zinc salt (CAS 557-05-1) Listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Benzene, ethyl- (CAS 100-41-4) Listed.
Isobutane (CAS 75-28-5) Listed.
Methylene chloride (CAS 75-09-2) Listed.
Octadecanoic acid, zinc salt (CAS 557-05-1) Listed.
Propane (CAS 74-98-6) Listed.

US CAA Section 111 Volatile Organic Compounds: Listed substance

Benzene, ethyl- (CAS 100-41-4) Listed.
Methylene chloride (CAS 75-09-2) Listed.

US CAA Section 112(r) Accidental Release Prevention - Regulated Flammable Substance: Listed substance

Isobutane (CAS 75-28-5) Regulated flammable substance.
Propane (CAS 74-98-6) Regulated flammable substance.

US CAA Section 112(r) Accidental Release Prevention: Threshold quantity

Isobutane (CAS 75-28-5) 10000 LBS
Propane (CAS 74-98-6) 10000 LBS

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

Isobutane (CAS 75-28-5) Listed.
Propane (CAS 74-98-6) Listed.

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

Benzene, ethyl- (CAS 100-41-4) Listed.
 Methylene chloride (CAS 75-09-2) Listed.

US CAA Section 612 SNAP Program: Listed substance

Methylene chloride (CAS 75-09-2) Listed.
 Propane (CAS 74-98-6) Listed.

US CAA VOCs with Negligible Photochemical Activity: Listed substance

Methylene chloride (CAS 75-09-2) Listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
 Immediate Hazard - Yes
 Delayed Hazard - Yes
 Fire Hazard - Yes
 Pressure Hazard - Yes
 Reactivity Hazard - No

SARA 302 Extremely hazardous substance No

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
Methylene chloride	75-09-2	30-60
Octadecanoic acid, zinc salt	557-05-1	1-5
Benzene, ethyl-	100-41-4	0.1-1

Other federal regulations

Safe Drinking Water Act (SDWA) Not regulated.

Food and Drug Administration (FDA) Not regulated.

US state regulations

WARNING: This product contains a chemical known to the State of California to cause cancer.

US - California Hazardous Substances (Director's): Listed substance

Benzene, ethyl- (CAS 100-41-4) Listed.
 Methylene chloride (CAS 75-09-2) Listed.
 Octadecanoic acid, zinc salt (CAS 557-05-1) Listed.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Benzene, ethyl- (CAS 100-41-4) Listed.
 Methylene chloride (CAS 75-09-2) Listed.

US - Illinois Chemical Safety Act: Listed substance

Benzene, ethyl- (CAS 100-41-4) Listed.
 Isobutane (CAS 75-28-5) Listed.
 Methylene chloride (CAS 75-09-2) Listed.
 Octadecanoic acid, zinc salt (CAS 557-05-1) Listed.
 Propane (CAS 74-98-6) Listed.

US - Louisiana Spill Reporting: Listed substance

Benzene, ethyl- (CAS 100-41-4) Listed.
 Isobutane (CAS 75-28-5) Listed.
 Methylene chloride (CAS 75-09-2) Listed.
 Octadecanoic acid, zinc salt (CAS 557-05-1) Listed.
 Propane (CAS 74-98-6) Listed.

US - Michigan Critical Materials Register: Parameter number

Methylene chloride (CAS 75-09-2) 00075-09-2 Listed.
 Octadecanoic acid, zinc salt (CAS 557-05-1) 07440-66-6 Listed.

US - Minnesota Haz Subs: Listed substance

Benzene, ethyl- (CAS 100-41-4) Listed.
 Isobutane (CAS 75-28-5) Listed.
 Methylene chloride (CAS 75-09-2) Listed.
 Octadecanoic acid (CAS 57-11-4) Listed.
 Octadecanoic acid, zinc salt (CAS 557-05-1) Listed.
 Propane (CAS 74-98-6) Listed.

US - New Jersey RTK - Substances: Listed substance

Benzene, ethyl- (CAS 100-41-4) Listed.
 Isobutane (CAS 75-28-5) Listed.
 Methylene chloride (CAS 75-09-2) Listed.
 Octadecanoic acid, zinc salt (CAS 557-05-1) Listed.
 Propane (CAS 74-98-6) Listed.

US - New York Release Reporting: Hazardous Substances: Listed substance

Benzene, ethyl- (CAS 100-41-4) Listed.
 Methylene chloride (CAS 75-09-2) Listed.

US - North Carolina Toxic Air Pollutants: Listed substance

Methylene chloride (CAS 75-09-2) Listed.

US - Pennsylvania RTK - Hazardous Substances: Special hazard

Methylene chloride (CAS 75-09-2) Special hazard.

US - Texas Effects Screening Levels: Listed substance

Benzene, ethyl- (CAS 100-41-4) Listed.
 Isobutane (CAS 75-28-5) Listed.
 Methylene chloride (CAS 75-09-2) Listed.
 Octadecanoic acid (CAS 57-11-4) Listed.
 Octadecanoic acid, zinc salt (CAS 557-05-1) Listed.
 Propane (CAS 74-98-6) Listed.

US - Washington Chemical of High Concern to Children: Listed substance

Benzene, ethyl- (CAS 100-41-4) Listed.
 Methylene chloride (CAS 75-09-2) Listed.

US. Massachusetts RTK - Substance List

Benzene, ethyl- (CAS 100-41-4) Listed.
 Isobutane (CAS 75-28-5) Listed.
 Methylene chloride (CAS 75-09-2) Listed.
 Octadecanoic acid, zinc salt (CAS 557-05-1) Listed.
 Propane (CAS 74-98-6) Listed.

US. Pennsylvania RTK - Hazardous Substances

Benzene, ethyl- (CAS 100-41-4) Listed.
 Isobutane (CAS 75-28-5) Listed.
 Methylene chloride (CAS 75-09-2) Listed.
 Octadecanoic acid, zinc salt (CAS 557-05-1) Listed.
 Propane (CAS 74-98-6) Listed.

US. Rhode Island RTK

Benzene, ethyl- (CAS 100-41-4) Listed.
 Isobutane (CAS 75-28-5) Listed.
 Methylene chloride (CAS 75-09-2) Listed.
 Octadecanoic acid, zinc salt (CAS 557-05-1) Listed.
 Propane (CAS 74-98-6) Listed.

Inventory status

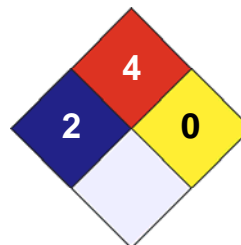
Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

HEALTH	*	2
FLAMMABILITY		4
PHYSICAL HAZARD		0
PERSONAL PROTECTION		X

**Disclaimer**

The information in the sheet was written based on the best knowledge and experience currently available. Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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Effective date 01-June-2015
Expiry date 01-June-2018

Further information

For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.

Prepared by

Nu-Calgon Technical Service Phone: (314) 469-7000

Other information

This Safety Data Sheet was prepared to comply with the current OSHA Hazard Communication Standard (HCS) adoption of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).



MATERIAL SAFETY DATA SHEET

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Company Name Nu-Calgon Wholesaler, Inc.		Phone Number (314) 469-7000 / (800) 554-5499		CHEMTREC (800) 424-9300	
Street Address 2008 Altom Court		City St. Louis	State MO	Postal Code 63146-4151	Last Update 3/29/07
Product Name Pipe-Dri		Product Number 4297	Product Use Insulation Spray		EPA Registration # N/A

SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Ingredients</u>	<u>% By Wt.</u>	<u>CAS Number</u>	<u>TLV</u>	<u>PEL</u>
Methylene Chloride		75-09-2	25 ppm	25 ppm
Propane		74-98-6	1000 ppm	1000 ppm
Isobutane		75-28-5	800 ppm	Not Est

SECTION 3 – HAZARD IDENTIFICATION

Emergency Overview: Primary Routes of Entry: Ingestion, Inhalation, Skin contact, Eye contact.
Potential Health Effects
Eyes: May cause irritation, redness, corneal injury, tearing, and burning.
Skin: May cause drying or flaking, irritation, burning sensation.
Ingestion: May cause gastrointestinal disturbances, nausea, vomiting, and diarrhea.
Inhalation: Over exposure may cause nausea, dizziness, headache and upper respiratory discomfort.
Chronic Exposure: No Data.
Carcinogenicity: Methylene Chloride International Association for Research on Cancer (IARC).....:Potential Carcinogen National Toxicology Program (NTP).....:Carcinogen American Conference of Governmental Industrial Hygienists (ACGIH):Suspected Carcinogen Occupational Safety and Health Administration (OSHA):Carcinogen
Medical Conditions Aggravated by Exposure: Skin sensitivity, chemical allergies.

SECTION 4 – FIRST AID MEASURES

Eyes: Flush with water for 15 minutes. If irritation persists, seek medical attention.
Skin: Wash with soap and water. If irritation persists, seek medical attention.
Ingestion: Do not induce vomiting in order to avoid aspiration into lungs. Seek medical attention immediately.
Inhalation: Remove to fresh air. Administer oxygen if breathing is difficult. If lavage is performed, suggest endotracheal and/or esophageal control. Do not administer sympathomimetic drugs unless absolutely necessary.

SECTION 5 – FIREFIGHTING MEASURES**Flash Point:** Not Established°C/Not Established°F**Autoignition Temp:** Not Established°C/Not Established°F**Hazardous Products of Combustion:** May form carbon monoxide, phosgene, hydrogen chloride, and chlorine.**Flammable Limits in Air:** Not Established**Extinguishing Media:** Carbon Dioxide, Standard foam, Dry Chemical, and Halon.**Fire and Explosion Hazards:** Exposure to temperature above 120 degrees Fahrenheit may cause bursting.**Special Firefighting Procedures:** Wear self-contained breathing apparatus.**SECTION 6 – ACCIDENTAL RELEASE MEASURES****Spill or Leak:** Small Spills ...: Absorb liquid on vermiculite, floor absorbent or other absorbent material.
Large Spills ...: Evacuate area. Remove all sources of ignition, Contain liquid. Prevent run-off to sewer.**SECTION 7 – HANDLING AND STORAGE****Handling Procedures and Equipment:** Do not store where temperatures exceed 120 degrees Fahrenheit. Keep out of reach of children. Wash hands before eating or smoking after using aerosol. National Fire Protection Association (NFPA) 30 B Storage Level Number: 1**Storage Requirements:** Do not store where temperatures exceed 120 degrees Fahrenheit. Keep out of reach of children. Wash hands before eating or smoking after using aerosol. National Fire Protection Association (NFPA) 30 B Storage Level Number: 1**SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION****Respiratory Protection:** Not required**Eye Protection:** Safety goggles. For short usage none required.**Protective Clothing:** Rubber gloves. For short usage none required.**Exposure Guidelines:** General ventilation recommended to control the level of vapors. See Section 2 for TLV's.**Specific Engineering Controls (such as ventilation, enclosed process):** Not required**SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

Physical Form: White Coating	Freezing Point: No Data. °C/No Data. °F	% Volatile by Weight: No Data. %
Color: White Coating	Vapor Density [air =1]: >1	Evaporation Rate: <1
Odor: Sweet Chlorinated	Vapor Pressure: 80 psig	Specific Gravity: 1.25
Boiling Point: Not Established°C/Not Established°F	Solubility in Water: Insoluble	pH (concentrate): Not Applicable

SECTION 10 – STABILITY AND REACTIVITY**Chemical Stability:** Stable**Hazardous Polymerization:** Product will not undergo hazardous polymerization.**Incompatibilities:** Avoid contact with strong oxidizing agent.**Reactive Conditions to avoid:** No Data.**Decomposition Products:** Will not decompose.**SECTION 11 – TOXICOLOGICAL INFORMATION**

Hazardous Ingredients	CAS #	EINECS #	LD 50 of Ingredient (Specify Species)	LC50 of Ingredient (Specify Species)
Not determined for the product by any route of entry.				

SECTION 12 – ECOLOGICAL INFORMATION

Hazardous Ingredients	Aquatic Toxicity Data
No Data.	

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose of in accordance with all applicable local, state, and federal regulations. Wrap empty container in paper and place in trash.

SECTION 14 – TRANSPORTATION INFORMATION

Special Shipping Information: No Data.

<u>Purview</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
DOT (Land)	Consumer Commodity	1950		(ORM)-D
IMO (Water)	No Data.			
ICAO (Air)	No Data.			

SECTION 15 – REGULATORY INFORMATION

WHMIS Classification: (Workplace Hazardous Material Information System)	No Data.				
SARA Title III: (Superfund Amendments & Reauthorization Act)	- 40 CFR 372.65 <table border="0"> <thead> <tr> <th>Ingredients</th> <th>Percent</th> </tr> </thead> <tbody> <tr> <td>1. Methylene Chloride</td> <td>60-70</td> </tr> </tbody> </table>	Ingredients	Percent	1. Methylene Chloride	60-70
Ingredients	Percent				
1. Methylene Chloride	60-70				
OSHA: (Occupational Safety & Health Administration)					
TSCA: (Toxic Substance Control Act)	All ingredients are listed that require listing.				
VOC: (volatile Organic Compounds)	25 %				
CPR: (Canadian Controlled Products Regulations)	This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations.				
EINECS: (European Inventory of Existing Commercial Chemical Substances)	No Data.				
DSL / NDSL: (Canadian Domestic Substance List)(Non-Domestic Substance List)	No Data.				
CERCLA: (Comprehensive Response Compensation & Liability Act)	(Reportable Quantity) – 40 CFR (Code of Federal Regulations) 302.4 Not applicable to aerosol quantities.				
IDL: (Canadian Ingredient Disclosure List)	No Data.				
NFPA (HMIS) Rating: (Hazardous Materials Identification System)	Health:2 Flammability:2 Reactivity:0				

SECTION 16 – OTHER INFORMATION

WARNING: This product contains a chemical known to the State of California to cause cancer.

The information contained herein is based on the data available to us and is believed to be correct. However, Nu-Calgon Wholesaler Inc. makes no warranty, expressed, or implied, regarding the accuracy of this data or the results to be obtained from the use thereof. Nu-Calgon Wholesaler Inc. assumes no liability for injury from the use of the product described herein.