SAFETY DATA SHEET



	1. Identificatio	n		
Product identifier	Pipe-Dri (4297-76)			
Other means of identification	Not available.			
Recommended use	Insulation			
Recommended restrictions	None known.			
Manufacturer/Importer/Supplier	/Distributor information			
Manufacturer				
Company name	Nu-Calgon			
Address	2611 Schuetz Road			
	St. Louis, MO 63043 United States			
Telephone	314-469-7000 / 800-554-5499			
E-mail	Not available.			
Emergency phone number	1-800-424-9300 (CHEMTREC)			
Supplier	See above.			
	2. Hazard identific	ation		
Physical hazards	Flammable aerosols	Category 1		
	Gases under pressure	Liquefied gas		
Health hazards	Serious eye damage/eye irritation	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. Causes			
	serious eye irritation.			
Precautionary statement Prevention	Koop away from boat, bot surfaces, spa	urks, open flames and other ignition sources. No smoking.		
Prevention		ignition source. Do not pierce or burn, even after use.		
Response		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.		
Storage	Protect from sunlight. Store in a well-ve 50°C/122°F.	ntilated place. Do not expose to temperatures exceeding		
Disposal	Dispose of container in accordance with	local, regional, national and 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.			
Supplemental information	None.			
	3. Composition/Information	on ingredients		
Mixture				
Chemical name	Common name and synonyms	CAS number %		
	common nume and synonyms			

Acetone

67-64-1

60-80*

Chemical name	Common name and synonyms	CAS number	%
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*
	y weight unless ingredient is a gas. Gas conce	· ·	
Composition comments	US GHS: The exact percentage (concentration secret in accordance with paragraph (i) of §1		unielo as a trade
	*CANADA GHS: The exact percentage (conc trade secret.	centration) of composition has b	been withheld as a
	4. First-aid measures	;	
Inhalation	If symptoms develop move victim to fresh air	. If symptoms persist, obtain m	edical attention.
Skin contact	Flush with cool water. Wash with soap and w	ater. Obtain medical attention	if irritation persists.
Eye contact	IF IN EYES: Rinse cautiously with water for s and easy to do. Continue rinsing. If eye irritat		
Ingestion	Not likely, due to the form of the product. Rin naturally, have victim lean forward to reduce victim is unconscious or is convulsing. Obtain	risk of aspiration. Never give a	
Most important symptoms/effects, acute and delayed	Headache. Dizziness. Severe eye irritation. S swelling, and blurred vision.	Symptoms may include stinging	ı, tearing, redness,
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and tre	eat symptomatically. Symptoms	may be delayed.
General information	If you feel unwell, seek medical advice (show sheet to the doctor in attendance. Avoid cont		
	5. Fire-fighting measur	es	
Suitable extinguishing media	Water fog. Alcohol resistant foam. Dry chemi	cal powder. Carbon dioxide.	
Unsuitable extinguishing media	None known.		
Specific hazards arising from the chemical	Contents under pressure. Pressurized contain During fire, gases hazardous to health may be		d to heat or flame.
Special protective equipment and precautions for firefighters	Firefighters must use standard protective equipate face shield, gloves, rubber boots, and in encline		nt coat, helmet with
Fire-fighting equipment/instructions	In case of fire: Stop leak if safe to do so. Do to heat. Move containers from fire area if you with water to prevent vapor pressure build up holder or monitor nozzles, if possible. If not, w	can do so without risk. Contain b. For massive fire in cargo area	ners should be cooled
Specific methods	Use standard firefighting procedures and cor containers from fire area if you can do so with water until well after the fire is out. In the eve	hout risk. Cool containers expo	sed to flames with
General fire hazards	Extremely flammable aerosol. Contents unde exposed to heat or flame.	er pressure. Pressurized contai	ner may explode when
Hazardous combustion products	May include and are not limited to: Oxides of	carbon.	
	6. Accidental release mea	sures	
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep per low areas. Many gases are heavier than air a confined areas (sewers, basements, tanks). V during clean-up. Emergency personnel need damaged containers or spilled material unless closed spaces before entering them. Local and cannot be contained. For personal protection	and will spread along ground ar Wear appropriate protective eq self-contained breathing equip s wearing appropriate protectiv uthorities should be advised if s	nd collect in low or uipment and clothing ment. Do not touch /e clothing. Ventilate
Methods and materials for containment and cleaning up	Refer to attached safety data sheets and/or in risk. Move the cylinder to a safe and open and dispersed. Eliminate all ignition sources (no s Keep combustibles (wood, paper, oil, etc.) av sand or earth and place into containers. Follo	ea if the leak is irreparable. Iso smoking, flares, sparks, or flam vay from spilled material. Abso	late area until gas has es in immediate area). rb in vermiculite, dry
	Small Spills: Wipe up with absorbent materia remove residual contamination. For waste dis		

7. Handling and storage			
Precautions for safe handling	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 smoke while using or until sprayed surface is thoroughly dry. Do not re-use empty containers. Avoid contact with eyes, skin and clothing. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash thoroughly after handling. Use good industrial hygiene practices in handling this material. When using do not eat or drink.		
Conditions for safe storage, including any incompatibilities	Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Store in a well-ventilated place. Stored containers should be periodically checked for general condition and leakage. 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

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

Components	Туре	Value	
Acetone (CAS 67-64-1)	STEL	1800 mg/m3 750 ppm	
	TWA	1200 mg/m3 500 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	Туре	Value	Form
Acetone (CAS 67-64-1)	STEL	500 ppm	
	TWA	250 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	Respirable fraction.
		10 mg/m3	Total dust.

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

Components	Туре	Value	Form
Acetone (CAS 67-64-1)	STEL	500 ppm	
	TWA	250 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	Туре	Value	Form
Acetone (CAS 67-64-1)	STEL	500 ppm	
	TWA	250 ppm	
Octadecanoic acid (CAS 57-11-4)	TWA	3 mg/m3	Respirable fraction.
Octadecanoic acid, zinc salt (CAS 557-05-1)	TWA	3 mg/m3	Respirable fraction.

Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety)

Components	Туре	Value
Acetone (CAS 67-64-1)	STEL	2380 mg/m3

Canada. Quebec OELs. (N Components		Туре		0	Value	
					1000 ppm	
		TWA			1190 mg/m3 500 ppm	
Octadecanoic acid, zinc sal (CAS 557-05-1)	t	TWA			10 mg/m3	
Canada. Saskatchewan O Components	ELs (Occupatior	nal Hea Type	lth and Safety R	egulations, 1	996, Table 21) Value	
Acetone (CAS 67-64-1)		15 mi	nute		750 ppm	
		8 hou	r		500 ppm	
Octadecanoic acid (CAS 57-11-4)		15 mi	nute		20 mg/m3	
		8 hou	r		10 mg/m3	
Octadecanoic acid, zinc sal (CAS 557-05-1)	t	15 mi	nute		20 mg/m3	
()		8 hou	r		10 mg/m3	
US. OSHA Table Z-1 Limit Components	s for Air Contam	ninants Type	(29 CFR 1910.1	000)	Value	Form
Acetone (CAS 67-64-1)		PEL			2400 mg/m3 1000 ppm	
Octadecanoic acid, zinc sal	t	PEL			5 mg/m3	Respirable fraction.
(CAS 557-05-1)					15 mg/m3	Total dust.
US. ACGIH Threshold Lin Components	iit Values	Туре			Value	Form
Acetone (CAS 67-64-1)		STEL			500 ppm	
		TWA			250 ppm	
Octadecanoic acid (CAS 57-11-4)		TWA			3 mg/m3	Respirable fraction.
,					10 mg/m3	Inhalable fraction.
Octadecanoic acid, zinc sal (CAS 557-05-1)	t	TWA			3 mg/m3	Respirable fraction.
					10 mg/m3	Inhalable fraction.
US. NIOSH: Pocket Guide Components	to Chemical Ha	zards Type			Value	Form
Acetone (CAS 67-64-1)		TWA			590 mg/m3 250 ppm	
Octadecanoic acid, zinc sal (CAS 557-05-1)	t	TWA			5 mg/m3	Respirable.
(CAS 557-05-1)					10 mg/m3	Total
ogical limit values						
ACGIH Biological Exposu Components	re Indices Value		Determinant	Specimer	n Sampling Tin	ne
Acetone (CAS 67-64-1)	25 mg/L		Acetone	Urine	*	
* - For sampling details, ple	ase see the sourc	ce docu	iment.			
ropriate engineering rols	should be ma or other engi	atched t neering	o conditions. If a controls to maint	oplicable, use ain airborne le	process enclosure evels below recom	e used. Ventilation rates s, local exhaust ventilati mended exposure limits o an acceptable level.
vidual protection measure Eye/face protection	s, such as perso	onal pr		ent		·
Skin protection						
Hand protection	Impervious g	loves.	Confirm with repu	itable supplier	first.	
	14/					

Other

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. 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				

	5. Thysical and chemical properties
Appearance	Misty spray
Physical state	Gas.
Form	Aerosol.
Color	White
Odor	Petroleum
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Pour point	Not available.
Specific gravity	Not available.
Partition coefficient (n-octanol/water)	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	50 psig @ 20°C
Vapor density	Not available.
Relative density	0.726
Solubility(ies)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	25 cP @ 25°C
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

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	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Do not mix with other chemicals.
Incompatible materials	Acids.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon.

11. Toxicological information

Routes of exposure

Eye, Skin contact, Inhalation, Ingestion.

Information on likely routes of exposure

Inhalation Pro		May cause stomach distress, nausea or vomiting.		
		Prolonged inhalation may be harmful.		
		No adverse effects due to skin contact are expected.		
	Eye contact	Causes serious eye irritation.		
Symptoms related to the physical, chemical and toxicological characteristics		Headache. Dizziness. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.		
	Information on toxical adjust	tests.		

Information on toxicological effects

Acute toxicity

Components	Species	Test Results		
Acetone (CAS 67-64-1)				
Acute				
Dermal				
LD50	Rabbit	> 15800 mg/kg, Health Canada (HSA)		
Inhalation				
LC50	Rat	76 mg/l/4h, Health Canada (HSA)		
Oral				
LD50	Rat	5800 mg/kg, Health Canada (HSA)		
Octadecanoic acid (CAS 57-11-4	1)			
Acute				
Dermal				
LD50	Rabbit	> 2000 mg/kg, 24 Hours, ECHA		
Inhalation				
LC50	Rat	> 0.2 mg/L, 4 Hours, ECHA		
Oral				
LD50	Rat	> 5000 mg/kg, ECHA		
Octadecanoic acid, zinc salt (CA	S 557-05-1)			
Acute				
Dermal				
LD50				
	Rat	2000 mg/kg		
Inhalation				
LC50	Not available			
Oral				
LD50	Rat	>= 5000 mg/kg		
Petroleum gases, liquefied, swee	etened (CAS 68476-86-8)			
Acute				
Dermal				
LD50	Not available			
Inhalation				
LC50	Rat	1442738 mg/m3, 10 Minutes, ECHA		
		1443 mg/L, 10 Minutes, ECHA		
Oral				
LD50	Not available			
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.			
Exposure minutes	Not available.			
Erythema value	Not available.			
Oedema value	Not available.			
Serious eye damage/eye	Causes serious eye irritation.			
irritation	-			
Corneal opacity value	Not available.			
Iris lesion value	Not available.			
Conjunctival reddening	Not available.			
value				

Conjunctival oedema value	Not available.				
Recover days	Not available.				
Respiratory or skin sensitization	1				
Canada - Alberta OELs: Irrita	ant				
Octadecanoic acid (CAS Octadecanoic acid, zinc s					
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.				
Carcinogenicity See below.					
California Proposition 65 - CRT: Listed date/Carcinogenic substance					
Ethylbenzene (CAS 100-41-4)					
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)					
Not listed.					
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	Not classified.				
Aspiration hazard	Not an aspiration hazard.				
Chronic effects	Prolonged inhalation may be harmful.				
	12. Ecological information				

Ecotoxicity	See below			
Ecotoxicological data Components		Species	Test Results	
Acetone (CAS 67-64-1)				
Crustacea	EC50	Daphnia	13999 mg/L, 48 Hours	
Aquatic				
Crustacea	EC50	Water flea (Daphnia magna)	10294 - 17704 mg/L, 48 hours	
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	4740 - 6330 mg/L, 96 hours	
Persistence and degradability Bioaccumulative potential	No data is a	vailable on the degradability of any ingr	edients in the mixture.	
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	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 a	ccordance with all applicable regulation	IS.	
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	ntaminated packaging Since emptied containers may retain product residue, follow label warnings even after cont emptied. Empty containers should be taken to an approved waste handling site for recyclin disposal. Do not re-use empty containers.			
		14. Transport information		

Transport of Dangerous Goods
(TDG) Proof of ClassificationClassification 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.

U.S. Department of Transportat	ion (DOT)
Basic shipping requirement	
UN number	UN1950
Proper shipping name	Aerosols, flammable, (each not exceeding 1 L capacity)
Hazard class	Limited Quantity - US
Transportation of Dangerous G	
Basic shipping requirement	
UN number Proper shipping name	UN1950 AEROSOLS, flammable
Hazard class	Limited Quantity - Canada
Packaging exceptions	<1L - Limited Quantity
IATA/ICAO (Air)	
Basic shipping requirement	ts:
UN number	UN1950
Proper shipping name	Aerosols, flammable
Hazard class	Limited Quantity - IATA
IMDG (Marine Transport)	
Basic shipping requirement	
UN number	UN1950
Proper shipping name Hazard class	AEROSOLS Limited Quantity - IMDG
DOT; IMDG; TDG	
IATA	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.
Canada CEPA Schedule I: L	listed substance
Octadecanoic acid, zinc	
Petroleum gases, liquefie	ed, sweetened (CAS Listed.
68476-86-8)	List (Second List) Listed substance
-	s List (Second List): Listed substance salt (CAS 557-05-1) Listed.
Octadecanoic acid, zinc Export Control List (CEPA	
Not listed. Greenhouse Gases	
Not listed.	
Precursor Control Regulation	ons
Acetone (CAS 67-64-1)	Class B
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 Not regulated.	Notification (40 CFR 707, Subpt. D)

CERCLA Hazardous Substan	ce List (40 CFR 302.4)			
Acetone (CAS 67-64-1) Octadecanoic acid, zinc sa SARA 304 Emergency release	It (CAS 557-05-1)	Listed. Listed.		
Not regulated.	, notinoution			
OSHA Specifically Regulated Not listed.	Substances (29 CFR 19	10.1001-1052)		
Superfund Amendments and Rea	uthorization Act of 1986	(SARA)		
-	No			
categories	Flammable (gases, aeros Gas under pressure Serious eye damage or e	· • ·	s)	
SARA 313 (TRI reporting) Chemical name		CAS number	% by wt.	
Octadecanoic acid, zinc sa	lt	557-05-1	1-5*	
Other federal regulations				
Clean Air Act (CAA) Section 1 Not regulated. Clean Air Act (CAA) Section 1 Not regulated.			FR 68.130)	
US state regulations	See below			
US - California Hazardous	s Substances (Director's	s): Listed substand	ce	
Acetone (CAS 67-64-1 Octadecanoic acid, zir US - Illinois Chemical Saf	nc salt (CAS 557-05-1)	Listed. Listed. c e		
Acetone (CAS 67-64-1 Octadecanoic acid, zin US - Louisiana Spill Repo	nc salt (CAS 557-05-1)			
Acetone (CAS 67-64-1 Octadecanoic acid, zin US - Michigan Critical Ma	nc salt (CAS 557-05-1)	Listed. Listed. e ter number		
Octadecanoic acid, zin US - Minnesota Haz Subs				
Acetone (CAS 67-64-1 Octadecanoic acid (CA Octadecanoic acid, zin US - Texas Effects Scree	ÁS 57-11-4) nc salt (CAS 557-05-1)	Listed. Listed. Listed. : Simple asphyxia	nt	
Petroleum gases, lique US - Texas Effects Scree	efied, sweetened (CAS 68 ning Levels: Listed subs	,		
Acetone (CAS 67-64-1 Octadecanoic acid (CA Octadecanoic acid, zin Petroleum gases, lique 68476-86-8)	ÁS 57-11-4) nc salt (CAS 557-05-1)	Listed. Listed. Listed. Listed.		
US. Massachusetts RTK · Acetone (CAS 67-64-1				
Octadecanoic acid, zir US. New Jersey Worker a	nd Community Right-to	-Know Act		
Acetone (CAS 67-64-1 Octadecanoic acid, zir US. Pennsylvania Worke Acetone (CAS 67-64-1	nc salt (CAS 557-05-1) r and Community Right-f	to-Know Law		
Octadecanoic acid, zir US. Rhode Island RTK				
Acetone (CAS 67-64-1 Octadecanoic acid, zin				
US. California Proposition 65 WARNING: This product ca more information go to www	an expose you to Ethylber	nzene, which is kno	wn to the State of California to cat	use cancer. For
California Proposition 65		inogenic substand		

Ethylbenzene (CAS 100-41-4)

Inventory status

Country(s) or region Canada Canada

Inventory name

document.

Domestic Substances List (DSL)

On inventory (yes/no)*

Yes

No Yes

Non-Domestic Substances List (NDSL)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

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

LEGEND	HEALTH / 2			
Severe4Serious3Moderate2Slight1Minimal0	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	28-January-2021			
Version #	02			
Effective date	28-January-2021			
Prepared by	Nu-Calgon Technical Service Phone: (314) 469-7000			
Further information	Not available.			
Other information	For an updated SDS, please contact the supplier/manufacturer listed on the first page of the			

#25695

act comply with the inventory requiremen **16. Other information**