Thermodyn Corporation
3550 Silica Road
Sylvania, OH, USA, 43560
Telephone: (419) 841 7782

Viton Caulk

SDS Preparation Date (mm/dd/yyyy): 04/25/2019

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SECTION 1. IDENTIFICATION

Product identifier used on the label

: **Viton Caulk**

Other means of identification : THD-001/THD-003/THD-004

Recommended use of the chemical and restrictions on use

: Sealant
Use pattern: Professional Use Only
Recommended restrictions: None.

Chemical family : Mixture of: Solvent; Fluorosilicone elastomer

Name, address, and telephone number of the supplier:

Thermodyn Corporation
3550 Silica Road
Sylvania, OH, USA
43560
Supplier's Telephone # : (419) 841 7782

Distributor's details : Swift Supplies
8 Marigold Street
Revesby, NSW, 2212
Australia
Phone: +61 7 3180 8824
swiftsupplies.com.au

24 Hr. Emergency Tel # : Chemtrec 1-800-424-9300 (Within Continental U.S.)
; Chemtrec 703-527-3887 (Outside U.S.).
: **National Poison Information Center (Australia): Tel: 131126**

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Black liquid. Ketone odor.

Most important hazards :Flammable liquid.Vapors may form explosive mixtures with air. Causes serious eye irritation. Inhalation may cause respiratory irritation and central nervous system depression. Occupational exposure to the substance or mixture may cause adverse effects. Avoid release to the environment.

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Hazard classification :

Flammable liquids - Category 2
Serious eye damage/eye irritation - Category 2A
Specific target organ toxicity, single exposure - Category 3 (respiratory)
Specific target organ ooxicity, single exposure - Category 3 (narcotic effects)

Label elements

Hazard pictogram(s)

Signal Word

DANGER!

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Hazard statement(s)

Highly flammable liquid and vapor.
Causes serious eye irritation.
May cause respiratory irritation.
May cause drowsiness or dizziness.

Precautionary statement(s)

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Keep container tightly closed.
Ground/Bond container and receiving equipment.
Use explosion-proof electrical and ventilating equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wash hands thoroughly after handling.
Avoid breathing mist or vapours.
Use only outdoors or in a well-ventilated area.
Wear protective gloves and eye/face protection.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
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 or doctor/physician if you feel unwell.

In case of fire: Use water fog, dry chemical, CO2 or 'alcohol' foam to extinguish.

Store locked up.
Store in a well-ventilated place. Keep cool.
Keep container tightly closed.

Dispose of contents/container in accordance with local regulation.

Other hazards

Other hazards May be sensitive to static discharge. Take measures to prevent the build up of electrostatic charge.

Other hazards which do not result in classification:
Burning produces obnoxious and toxic fumes. When burned, hazardous fumes including hydrogen fluoride can be released.Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.May cause mild skin irritation.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance

Chemical name	Common name and synonyms	CAS #	Concentration (% by weight)
Methyl ethyl ketone	Methyl acetone Butanone	78-93-3	**30.0 - 60.0**
Carbon black	Furnace black Lamp black Thermal black	1333-86-4	**10.0 - 30.0**
1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3,5-tri-2-propenyl-	Triallyl isocyanurate	1025-15-6	**1.0 - 5.0**
Fluoroelastomer (Viton)	Not available.	N/Ap	**30.0 - 60.0**

The exact concentrations of the above listed chemicals are being withheld as a trade secret.

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SECTION 4. FIRST-AID MEASURES

Description of first aid measures

Ingestion : Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms persist. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration.

Inhalation : If inhaled: Remove person to fresh air and keep comfortable for breathing. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin contact : Immediately flush with plenty of water, while removing contaminated clothing.If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Eye contact : For eye contact, flush with running water for at least 15 minutes.If eye irritation persists: get medical advice/attention.

Most important symptoms and effects, both acute and delayed

: May cause respiratory irritation.May cause coughing and breathing difficulties.
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Causes serious eye irritation.Symptoms may include redness, pain, tearing and conjunctivitis.
May cause central nervous system effects.Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects.
May cause skin irritation.Symptoms may include redness, itching and swelling.

Indication of any immediate medical attention and special treatment needed

: Treat symptomatically.This product is a CNS depressant.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

: Carbon dioxide (CO2); Dry chemical; Alcohol resistant foam; Water fog.

Unsuitable extinguishing media

: Do not use a solid water stream as it may scatter and spread fire.

Special hazards arising from the substance or mixture / Conditions of flammability

: Highly flammable liquid and vapour. Vapours may ignite explosively. Vapours are heavier than air and may spread along floors.Static discharge, impact, friction, and heat may ignite exposed chemical material.
When burned, hazardous fumes including hydrogen fluoride can be released.

Flammability classification (OSHA 29 CFR 1910.106)

: Flammable liquids - Category 2

Hazardous combustion products

: Carbon dioxide and carbon monoxide.Hydrogen peroxide; Aldehydes; Hydrogen bromide;Hydrogen fluoride.

Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

Special fire-fighting procedures

: Do not breathe fumes or vapours.Move containers from fire area if safe to do so.Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.Dike for water control.

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SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

: All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Keep people away from and upwind of spill/leak.Restrict access to area until completion of clean-up.Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Do not allow material to contaminate ground water system. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.

Methods and material for containment and cleaning up

: Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Use only non-sparking tools and equipment in the clean-up process. Do not breathe mist or vapor.Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13).Contact the proper local authorities. Refer to Section 13 for disposal of contaminated material.

Special spill response procedures

: Contact appropriate local and provincial environmental authorities for assistance and/or reporting requirements. EPA/CERCLA Reportable quantity (RQ): Methyl ethyl ketone:(5000 lbs / 2270 kg)

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

: Wear protective gloves and eye/face protection. Use only in well-ventilated areas. Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Keep container tightly closed. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources - No smoking. Take precautionary measures against static discharges. Ground all equipment during handling. Use explosion-proof electrical and ventilating equipment. Use only non-sparking tools. Keep container tightly closed.

Conditions for safe storage : Keep container tightly closed. Store in cool/well-ventilated place. Store locked up. Keep cool. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking. Empty containers may contain hazardous residues. After prolonged storage, may release explosive peroxides in the presence of air. Direct sunlight or heat may accelerate the release of peroxides.

Incompatible materials : Halogens; Acids; Strong oxidizers (e.g. Chlorine, Peroxides, etc.).

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

Chemical Name	ACGIH TLV		OSHA PEL	
	TWA	STEL	PEL	STEL
Methyl ethyl ketone	200 ppm	300 ppm	200 ppm (590 mg/m³)	N/Av
Carbon black	3.0 mg/m³ (inhalable)	N/Av	3.5 mg/m³	N/Av
1,3,5-Triazine-2,4,6(1H,3H,5H) -trione, 1,3,5-tri-2-propenyl-	N/Av	N/Av	N/Av	N/Av
Fluoroelastomer (Viton)	N/Av	N/Av	N/Av	N/Av

Exposure controls

Ventilation and engineering measures
: Use only in well-ventilated areas. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Use explosion-proof equipment. In case of insufficient ventilation wear suitable respiratory equipment.

Respiratory protection : If airbourne concentrations are above the permissible exposure limit or are not known, use NIOSH-approved respirators. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02. Advice should be sought from respiratory protection specialists.

Skin protection : Wear protective gloves. Where extensive exposure to product is possible, use resistant coveralls, apron and boots to prevent contact. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye / face protection : Wear eye/face protection. Wear as appropriate: Safety glasses with side-shields or chemical splash goggles, depending on workplace standards.

Other protective equipment : Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards.

General hygiene considerations
: Avoid breathing mist or vapor. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Do not take contaminated clothing home. Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Black liquid.
Odor : Ketone odor.
Odor threshold : Not available.
pH : Not available.
Melting Point/Freezing point : Not available.
Initial boiling point and boiling range
: 80°C
Flash point : -9°C
Flashpoint (Method) : Closed cup
Evaporation rate (BuAe = 1) : Not available.
Flammability (solid, gas) : Not applicable.
Lower flammable limit (% by vol.)
: 1.8%
Upper flammable limit (% by vol.)
: 10%
Oxidizing properties : None.
Explosive properties : May form explosive peroxides.
Vapour pressure : 75.8 mmHg
Vapour density : 2.4
Relative density / Specific gravity
: 1.290
Solubility in water : Not available.
Other solubility(ies) : Not available.
Partition coefficient: n-octanol/water or Coefficient of water/oil distribution
: Not available.
Auto-ignition temperature : 404°C (759°F)

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Decomposition temperature : Not available.
Viscosity : Not available.
Volatiles (% by weight) : Not available.
Volatile organic Compounds (VOC's)
: Not available.
Absolute pressure of container
: Not applicable.
Flame projection length : Not applicable.
Other physical/chemical comments
: None reported by the manufacturer.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not normally reactive.
Chemical stability : Stable under normal conditions. After prolonged storage, may release explosive peroxides in the presence of air. Direct sunlight or heat may accelerate the release of peroxides.
Possibility of hazardous reactions
: Hazardous polymerization does not occur.
Conditions to avoid : Open flames, sparks, high heat, direct sunlight, and close proximity to incompatible substances. Do not use in areas without adequate ventilation.
Incompatible materials : Halogens; Acids; Strong oxidizers.
Hazardous decomposition products
: None known, refer to hazardous combustion products in Section 5.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Routes of entry inhalation : YES
Routes of entry skin & eye : YES
Routes of entry Ingestion : YES
Routes of exposure skin absorption
: YES

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation
: May cause respiratory tract irritation. Coughing, difficulty breathing, and tightness in chest. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.
Sign and symptoms ingestion
: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Sign and symptoms skin : May cause mild skin irritation. Symptoms may include redness, itching and swelling.
Sign and symptoms eyes : Causes serious eye irritation. Symptoms may include redness, pain, tearing and conjunctivitis.
Potential Chronic Health Effects
: May cause damage to the central nervous system through prolonged or repeated exposure if inhaled. Frequent or prolonged contact may dry the skin, leading to discomfort and dermatitis.
Mutagenicity : Not expected to be mutagenic in humans.

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Carcinogenicity : Not classifiable as a human carcinogen. This product contains Carbon black, an IARC Group 2B carcinogen. However, the Carbon black used in this product is in a non-respirable form and under normal conditions of use, Carbon black cannot become airbourne. The carcinogenic effects of Carbon black are therefore not applicable to this product. No other components are classified as carcinogenic by IARC, ACGIH, OSHA or NTP.

Reproductive effects & Teratogenicity
: Not expected to cause reproductive effects.

Sensitization to material : Not expected to be a skin or respiratory sensitizer.

Specific target organ effects : This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification:
Specific target organ ooxicity, single exposure - Category 3 (narcotic effects)
Specific target organ toxicity, single exposure -Category 3 (respiratory)
May cause respiratory irritation. May cause drowsiness or dizziness.

Medical conditions aggravated by overexposure
: Pre-existing skin, eye, respiratory and central nervous system disorders.

Synergistic materials : No information available.

Toxicological data : There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data. The calculated ATE values for this mixture are: ATE oral = 3967.02 mg/kg

Chemical name	LC_{50}(4hr) inh, rat	LD_{50} (Oral, rat)	LD_{50} (Rabbit, dermal)
Methyl ethyl ketone	11 300 ppm (33.3 mg/L (vapour)	2740 mg/kg	6480 mg/kg
Carbon black	6.75 mg/L (dust)	> 10 000 mg/kg	> 3000 mg/kg
1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3,5-tri-2-propenyl-	N/Av	707mg/kg	N/Av
Fluoroelastomer (Viton)	N/Av	N/Av	N/Av

Other important toxicological hazards
: None reported by the manufacturer.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity : Not expected to be harmful to aquatic organisms. Avoid release to the environment. See the following tables for the substance's ecotoxicity data.

Ecotoxicity data:

Ingredients	CAS No	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
Methyl ethyl ketone	78-93-3	2993 mg/L (Fathead minnow)	N/Av	None.
Carbon black	1333-86-4	> 1000 mg/L (Zebra fish)	N/Av	None.
1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3,5-tri-2-propenyl-	1025-15-6	>100mg/L (Oryzias latipes)	N/Av	None.
Fluoroelastomer (Viton)	N/Ap	N/Av	N/Av	None.

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Ingredients	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Methyl ethyl ketone	78-93-3	308 mg/L (Daphnia magna)	N/Av	None.
Carbon black	1333-86-4	> 5600 mg/L/24hr (Daphnia magna)	N/Av	None.
1,3,5-Triazine-2,4,6(1H,3H,5H) -trione, 1,3,5-tri-2-propenyl-	1025-15-6	340mg/L Daphnia magna (Water flea)	N/Av	None.
Fluoroelastomer (Viton)	N/Ap	N/Av	N/Av	None.

Ingredients	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Methyl ethyl ketone	78-93-3	1972 mg/L/72hr (Green algae)	1240 mg/L/96hr	None.
Carbon black	1333-86-4	> 10 000 mg/L/72hr (Green algae)	N/Av	None.
1,3,5-Triazine-2,4,6(1H,3H,5H) -trione, 1,3,5-tri-2-propenyl-	1025-15-6	100mg/L (Green algae)	N/Av	None.
Fluoroelastomer (Viton)	N/Ap	N/Av	N/Av	None.

Persistence and degradability
: No data is available on the product itself. Methyl ethyl ketone is considered to be readily biodegradable. All other ingredients not expected to be biodegradable.

Bioaccumulation potential : No information available.

Components	Partition coefficient n-octanol/water (log Kow)	Bioconcentration factor (BCF)
Methyl ethyl ketone (CAS 78-93-3)	0.29	3
1,3,5-Triazine-2,4,6(1H,3H,5H) -trione, 1,3,5-tri-2-propenyl- (CAS 1025-15-6)	1.92	Not expected to bioaccumula

Mobility in soil : The product itself has not been tested.

Other Adverse Environmental effects
: None known.

SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal : Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8.

Methods of Disposal : Dispose in accordance with all applicable federal, state, provincial and local regulations.

RCRA : If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

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SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
TDG	UN1193	METHYL ETHYL KETONE, MIXTURE	3	II	
TDG Additional information	May be shipped as LIMITED QUANTITY when transported in quantities no larger than 1 Litre, in packages not exceeding 30 kg gross mass.				
49CFR/DOT	UN1193	METHYL ETHYL KETONE, MIXTURE	3	II	
49CFR/DOT Additional information	US CERCLA Reportable quantity (RQ): (5000 lbs / 2270 kg) Refer to 49 CFR Section 173.150.				
ICAO/IATA	UN1193	Methyl ethyl ketone, Mixture	3	II	
ICAO/IATA Additional information	Refer to ICAO/IATA Packing Instruction				
IMDG	UN1193	METHYL ETHYL KETONE MIXTURE	3	II	
IMDG Additional information	Consult the IMDG regulations for exceptions.				

Special precautions for user : Appropriate advice on safety must accompany the package. Keep away from heat, sparks and open flame. - No smoking.

Environmental hazards : This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.

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

: This information is not available.

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:

Ingredients	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302)	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
					Toxic Chemical	de minimus Concentration
Methyl ethyl ketone	78-93-3	Yes	5000 lb/ 2270 kg	None.	No	N/Ap
Carbon black	1333-86-4	Yes	None.	None.	No	N/Ap
1,3,5-Triazine-2,4,6(1H,3 H,5H)-trione, 1,3,5-tri-2-propenyl-	1025-15-6	Yes	N/Ap	N/Av	No	N/Ap
Fluoroelastomer (Viton)	N/Ap	Yes	none	N/Ap	NS	N/Ap

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SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes:Flammable; Eye irritation; Specific target organ toxicity, single exposure.
Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

Ingredients	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Methyl ethyl ketone	78-93-3	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
Carbon black	1333-86-4	Yes	Cancer (airborne, unbound particles of respirable size)	Yes	Yes	Yes	Yes	Yes	Yes
1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3,5-tri-2-propenyl-	1025-15-6	No	N/Ap	No	No	No	No	No	No
Fluoroelastomer (Viton)	N/Ap	No	N/Ap	No	No	No	No	Yes	No

Canadian Information:
Canadian Environmental Protection Act (CEPA): All ingredients are present on the DSL.

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

International Information:

Components listed below are present on the following International Inventory list:

Ingredients	CAS #	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
Methyl ethyl ketone	78-93-3	201-159-0	Present	Present	(2)-542	KE-24094	Present	HSR001190
Carbon black	1333-86-4	215-609-9	Present	Present	(5)-3328; (5)-5222	KE-04682	Present	HSR002801
1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3,5-tri-2-propenyl-	1025-15-6	213-834-7	Present	Present	(5)-1047	KE-34777	Present	HSR004777
Fluoroelastomer (Viton)	N/Ap	Mixture	N/Av	N/Av	N/Av	N/Av	N/Av	N/Av

SECTION 16. OTHER INFORMATION

Legend : ACGIH: American Conference of Governmental Industrial Hygienists
AICS: Australian Inventory of Chemical Substances
ATE: Acute Toxicity Estimate
CA: California
CAS: Chemical Abstract Services
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CFR: Code of Federal Regulations
CSA: Canadian Standards Association
DOT: Department of Transportation
ECHA: European Chemicals Agency

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ECOTOX: U.S. EPA Ecotoxicology Database
EINECS: European Inventory of Existing Commercial chemical Substances
ENCS: Existing and New Chemical Substances
EPA: Environmental Protection Agency
HSDB: Hazardous Substances Data Bank
IARC: International Agency for Research on Cancer
IBC: Intermediate Bulk Container
IECSC: Inventory of Existing Chemical Substances
IMDG: International Maritime Dangerous Goods
IOC: Inventory of Chemicals
IUCLID: International Uniform Chemical Information Database
KECI: Korean Existing Chemicals Inventory
KECL: Korean Existing Chemicals List
LC: Lethal Concentration
LD: Lethal Dose
MA: Massachusetts
MN: Minnesota
N/Ap: Not Applicable
N/Av: Not Available
NIOSH: National Institute of Occupational Safety and Health
NJ: New Jersey
NOEC: No observable effect concentration
NTP: National Toxicology Program
OECD: Organisation for Economic Co-operation and Development
OSHA: Occupational Safety and Health Administration
PA: Pennsylvania
PEL: Permissible exposure limit
PICCS: Philippine Inventory of Chemicals and Chemical Substances
RCRA: Resource Conservation and Recovery Act
RI: Rhode Island
RTECS: Registry of Toxic Effects of Chemical Substances
SARA: Superfund Amendments and Reauthorization Act
SDS: Safety Data Sheet / Material Safety Data Sheet
STEL: Short Term Exposure Limit
TDG: Canadian Transportation of Dangerous Goods Act & Regulations
TLV: Threshold Limit Values
TSCA: Toxic Substance Control Act
TWA: Time Weighted Average
WHMIS: Workplace Hazardous Materials Identification System

References : 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2016
2. International Agency for Research on Cancer Monographs, searched 2017
3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2017(Chempendium, HSDB and RTECs).
4. Material Safety Data Sheets from manufacturer.
5. US EPA Title III List of Lists - 2017 version.
6. California Proposition 65 List - 2017 version.
7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal,2017.

Preparation Date (mm/dd/yyyy)

: 04/25/2019

Other special considerations for handling

: Provide adequate information, instruction and training for operators.

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Prepared for: Thermodyn Corporation 3550 Silica Road Sylvania, OH 43560 Telephone: 419-841-7752	Thermodyn™ Where Your Success Is Sealed
Prepared by: ICC The Compliance Center Inc. Telephone: (888) 442-9628 (U.S.): (888) 977-4834 (Canada) http://www.thecompliancecenter.com	icc ComplianceCenter

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