



Thurmalox 2655
SDS Preparation Date (mm/dd/yyyy): 03/16/2016

SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product identifier used on the label

: **Thurmalox 2655**

Product Code(s) : 2655

Recommended use of the chemical and restrictions on use

: High Temperature Silicone Caulk

Use pattern: Professional Use Only

Recommended restrictions: None Known.

Chemical family : Mixture.

Name, address, and telephone number of the supplier:

Dampney Company, Inc.

85 Paris Street
Everett, Massachusetts, U.S.A.
02149

Email: sales@dampney.com

Supplier's Telephone # : (617) 389-2805

24 Hr. Emergency Tel # : Chemtrec 1-800-424-9300 (Within Continental U.S.); Chemtrec 703-527-3887 (Outside U.S.).

Name, address, and telephone number of the manufacturer:

Refer to supplier

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Red paste. Acetic acid odor.

Classification:

Reproductive toxicity (fertility) - Category 2

Label elements

Hazard pictogram(s)



Signal Word

WARNING

Hazard statement(s)

Precautionary statement(s)

Suspected of damaging fertility. May cause eye/lung/skin irritation.

Contaminated work clothing should not be allowed out of work place.

Obtain special instructions before use.

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

Wash thoroughly after handling.

Wear protective gloves/clothing and eye/face protection.

If exposed or concerned: Get medical attention/advice.

EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. If eye irritant persists get medical attention / advice.



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IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
If skin irritation occurs: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards

No OSHA defined hazard classes.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

<u>Chemical name</u>	<u>CAS #</u>	<u>Concentration (% by weight)</u>
Ethyltriacetoxysilane	17689-77-9	1.0 - 5.0
Methylacetoxysilane	4253-34-3	1.0 - 5.0
Titanium oxide	13463-67-7	< 1.0
Distillates (petroleum)	64742-46-7	1.0 - 7.0
Octamethylcyclotetrasiloxane (impurity)	556-67-2	< 1.0

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

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

Inhalation : IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor/physician if you feel unwell.

Skin contact: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

Eye contact: In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if irritation develops and persists.

Ingestion : IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician. Do NOT induce vomiting. Material is an aspiration hazard. Guard against aspiration into lungs by having the individual turn on their left side. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration.

Indication of any immediate medical attention and special treatment needed

: Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media : Use water spray, dry chemical or carbon dioxide.

Unsuitable extinguishing media : None known.

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

: By heating and fire, harmful vapors may be formed.

Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

: Firefighters must use standard protective equipment including flame retardant coat,



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helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Special fire-fighting procedures

: Move containers from fire area if safe to do so.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

: Immediately evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid breathing vapour or mist. Restrict access to area until completion of clean-up. Remove all sources of ignition. All persons dealing with the clean-up should wear the appropriate personal protective equipment. For personal protection see section 8.

Environmental precautions : Avoid release to the environment.

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. Pick up and transfer to properly labeled containers. Contact the proper local authorities.

Special spill response procedures

: In case of a transportation accident, in the United States contact CHEMTREC at 1-800-424-9300 or International at 1-703-527-3887.

SECTION 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. Provide adequate ventilation. Keep container tightly closed. Pregnant and breastfeeding women must not handle this product. Do not breathe mist or vapor. Wear protective gloves and eye/face protection. Do not ingest. Avoid contact with skin, eyes and clothing. Encourage good housekeeping and personal hygiene.

Conditions for safe storage : Store in well-ventilated place. Keep cool. Store locked up. Keep container tightly closed.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

Chemical Name	Type	Value
Titanium oxide	PEL	15 mg/m ³
Distillates (petroleum)	TWA (mist)	5 mg/m ³
Acetic acid	PEL	10 ppm (25 mg/m ³)
Titanium dioxide	TWA	10 mg/m ³

Exposure controls

Ventilation and engineering measures

: Use only in a well-ventilated area. 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. In case of insufficient ventilation wear suitable respiratory equipment.

Respiratory protection

: If engineering controls and work practices are not effective in controlling exposure to this material, then wear suitable approved respiratory protection. 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.



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Skin protection : Wear protective gloves.
Eye / face protection : Chemical splash goggles are recommended.
Other protective equipment : Wear suitable protective clothing.
General hygiene considerations
: Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Do not eat, drink, smoke or use cosmetics while working with this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. 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 : Red Paste.
Odour : Acetic acid odor.
Odour threshold : N/Av
pH : N/Av
Melting/Freezing point : N/Av
Initial boiling point and boiling range
: N/Av
Flash point : 141.8°F (>96°C) Closed cup
Evaporation rate (BuAe = 1) : < 1
Flammability (solid, gas) : N/Av
Lower flammable limit (% by vol.)
: N/Av
Upper flammable limit (% by vol.)
: N/Av
Vapour pressure : Negligible (25°C)
Vapour density : >1 (air = 1)
Relative density : 1.04 (25°C)
Solubility in water : Not soluble
Partition coefficient: : N/Av
Auto-ignition temperature : N/Av
Decomposition temperature : N/Av
Volatile organic Compounds (VOC's)
: .25 lbs/gal

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not normally reactive.
Chemical stability : Stable under normal conditions.
Possibility of hazardous reactions
: Hazardous polymerization does not occur.
Conditions to avoid : None known..
Incompatible materials : Strong oxidizing agents.
Hazardous decomposition products
: This product reacts with water, moisture, or humid air to evolve acetic acid. Thermal breakdown of this product during fire or very high heat condition may evolve the following hazardous decomposition products. Carbon dioxides and traces of incompletely burned carbon compounds. Silicon dioxide. Formaldehyde.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Ingestion Inhalation



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Skin contact : Prolonged inhalation may be harmful.
Eye contact : No adverse effects due to skin contact are expected.
 : Expected to be a low ingestion hazard. : Direct contact with eyes may cause temporary irritation.

Potential Health Effects:

Sign and symptoms skin : Causes severe skin burns and eye damage.
Sign and symptoms eyes : Causes serious eye damage.
Respiratory sensitization : Not available.
Skin sensitization : No evidence of sensitization
Germ cell mutagenicity : Negative
Carcinogenicity : The following material is embedded in the product and not available as respirable dusts. When used as intended or as supplied, the product will not pose hazards. Titanium oxide.
IARC Carcinogenicity : Titanium oxide. 2B Possibly carcinogenic to humans.
Reproductive toxicity : Octamethylcyclotetrasiloxane administered to rats by whole body inhalation at concentrations of 500 and 700 ppm for 70 days prior to mating, through mating, gestation and lactation resulted in decreases in live litter size. Additionally, increases in the incidence of deliveries of offspring extending over an unusually long time period were observed at these concentrations. Statistically significant alterations in these parameters were not observed in the lower concentrations evaluated (300 and 700 ppm). In a previous range-finding study, rats exposed to vapor concentrations of 700 ppm had decreases in the number of implantation sites and liver litter size. The significance of these findings to humans is not known.

Specific target organ toxicity single exposure
Specific target organ toxicity repeated exposure

Not available.
 Repeated inhalation or oral exposure of mice and rats to octamethylcyclotetrasiloxane produced an increase in liver size. No gross histopathological or significant clinical chemistry effects were observed. An increase in liver metabolizing enzymes, as well as a transient increase in the number of normal cells (hyperplasia) followed by an increase in cell size (hypertrophy) were determined to be the underlying causes of the liver enlargement. The biochemical mechanisms producing these effects are highly sensitive in rodents, while similar mechanisms in humans are insensitive. A two year combined chronic and carcinogenicity assay was conducted on octamethylcyclotetrasiloxane. Rats were exposed by whole-body vapor inhalation 6 hours per day, 5 days a week for up to 104 weeks to 0, 10, 30, 150 or 700 ppm of octamethylcyclotetrasiloxane. The increase in incidence of (uterine) endometrial cell hyperplasia and uterine adenomas (benign tumors) were observed in female rates at 700 ppm. Since these effects only occurred at 700 ppm, a level that greatly exceeds typical workplace or consumer exposure, it is unlikely that industrial, commercial or consumer uses of products containing octamethylcyclotetrasiloxane would result in a significant risk to humans.

Aspiration hazard

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard. Distillates (petroleum).

Chronic effects
Further information

Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects. This product reacts with water, moisture or humid air to evolve following compounds: Acetic acid.

Chemical name	Species	Test	Results
Acetic acid	Rabbit	Acute dermal LD50	1060 mg/kg
	Rabbit	Oral LD50	1200 mg/kg
	Guinea pig	Inhalation LC50	5000 ppm, 1 hour
	Mouse	Inhalation LC50	5620 ppm, 1 hour
	Mouse	Oral LD50	4960 mg/kg
	Rat	Inhalation LC50	11.4 mg/l, 4 hours
	Rat	Oral LD50	3.31 g/kg



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Distillates (petroleum)	Rat	Oral inhalation	5000 mg/kg
	Rat	LC50	1.78 mg/l, 4 hours
	Rat	Dermal	2000 mg/kg

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity : Octamethylcyclotetrasiloxane may cause long lasting harmful effects to aquatic life.

Ecotoxicity data:

Ingredients	CAS No	Species	Concentration	Results
Titanium oxide	13463-67-7	Water Flea (Daphnia magna)	EC50	>1000 mg/l, 48 hours
		Mummichog (Fundulus heteroclitus)	LC50	>1000 mg/l, 96 hours
Acetic acid	64-19-7	Water Flea (Daphnia magna)	EC50	65 mg/l, 48 hours
		Bluegill (Leponis macrochirus)	LC50	75 mg/l, 96 hours

Persistence and degradability : Not available.
Bio accumulative potential : Bio Concentration Factor (Flathead minnow): 12400 Octamethylcyclotetrasiloxane.
Mobility in soil : Not available.
Other adverse effects : Not available.

SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal : Handle in accordance with good industrial hygiene and safety practice.
Methods of Disposal : Dispose in accordance with all applicable regulations.

SECTION 14. TRANSPORTATION INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
49CFR/DOT		Not regulated			
TDG		Not regulated			
IMDG		Not Regulated			
ICAO/IATA		Not regulated			

SECTION 15 - REGULATORY INFORMATION

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

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)



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: None.

Superfund amendments and reauthorization act of 1986 (SARA)
SARA 313 (TRI reporting)

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	NJ	PA	RI
Titanium oxide	13463-67-7	Yes	Carcinogenic	Yes	Yes	Yes	Yes	No

Canadian Information:

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

WHMIS Classification: See Section 2.

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	New Zealand IOC
Titanium oxide	13463-67-7	Yes	Present	Present	Yes	Yes	Yes	Yes

SECTION 16. OTHER INFORMATION

Legend

: ACGIH: American Conference of Governmental Industrial Hygienists AICS: Australian Inventory of Chemical Substances
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 EC50: Effective Concentration 50%.
EINECS: European Inventory of Existing Commercial chemical Substances ENCS: Existing and New Chemical Substances
EPA: Environmental Protection Agency
HMIS: Hazardous Materials Identification System HSDB: Hazardous Substances Data Bank
IARC: International Agency for Research on Cancer IECSC: Inventory of Existing Chemical Substances IMDG: International Maritime Dangerous Goods Inh: Inhalation
KECI: Korean Existing Chemicals Inventory KECL: Korean Existing Chemicals List
LC: Lethal Concentration LD: Lethal Dose
N/Av: Not Applicable N/Av: Not Available
NFFPA: National Fire Protection Association NJ: New Jersey
NIOSH: National Institute of Occupational Safety and Health NOEC: No observable effect concentration
NTP: National Toxicology Program
OECD: Organization for Economic Co-operation and Development OSHA: Occupational Safety and Health Administration
PA: Pennsylvania
PEL: Permissible exposure limit



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PICCS: Philippine Inventory of Chemicals and Chemical Substances RCRA: Resource Conservation and Recovery Act
RTECS: Registry of Toxic Effects of Chemical Substances SARA: Superfund Amendments and Reauthorization Act
STEL: Short Term Exposure Limit
TDG: Canadian Transportation of Dangerous Goods Act & Regulations TLV: Threshold Limit Values
TPQ: Threshold Planning Quantity TSCA: Toxic Substance Control Act TWA: Time Weighted Average
WHMIS: Workplace Hazardous Materials Identification System

References

Canadian Centre for Occupational Health and Safety, CCIInfoWeb databases, 2015 (Chempendium, RTECs, HSDB, INCHEM).
OECD- The Global Portal to Information on Chemical Substances - eChemPortal, 2015
European Chemicals Agency, Classification Legislation, 2015
Material Safety Data Sheet from manufacturer

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Other special considerations for handling

: Provide adequate information, instruction and training for operators.

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