

SECTION 1: IDENTIFICATION OF THE SUBSTANCE & THE COMPANY

PRODUCT IDENTIFIER: TRITOtherm

SYNONYMS: None

RECOMMENDED USE: Roof and wall acrylic coating/paint

RECOMMENDED RESTRICTIONS: Not available

PRODUCT CODES: Not available

MANUFACTURER: Triton, Incorporated™

DIVISION: Cedar Rapids

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SECTION 2: HAZARD(S) IDENTIFICATION

PHYSICAL HAZARDS: Not classified

HEALTH HAZARDS: Not classified

ENVIRONMENTAL HAZARDS: Not classified

OSHA DEFINED HAZARDS: This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

LABEL ELEMENTS



SIGNAL WORD: WARNING

HAZARD STATEMENTS

Eye contact may cause irritation with tearing, pain, blurring of vision, corneal opacity, or clouding of the eye.

Prolonged skin contact may cause redness and itching.

If ingested, this alkaline product may affect the central nervous system and/or cause stomach distress.

At normal temperatures, low inhalation exposure will be encountered and these vapors may be irritating to the eyes, nose, or throat.

At high temperatures above 200 degrees F, vapors are irritating to the eyes, nose, and throat.

PREVENTION STATEMENTS

Obtain special instructions before use.

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

Wear protective gloves, protective clothing, and eye protection at all times.

Wash hands and face thoroughly after handling.

Use only outdoors or in a well-ventilated area.

RESPONSE STATEMENTS

If exposed or concerned, get medical attention.

IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes, lifting the upper and lower eyelids occasionally. If eye irritation persists, get medical advice/attention.

IF ON SKIN: wash with plenty of soap and water. If skin irritation occurs, get medical advice/attention. Take off contaminated clothing and wash it before reuse.

IF INHALED: remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

STORAGE STATEMENTS

Store locked up.

Protect from sunlight and store in a well-ventilated place.
Keep container tightly closed.
Do not allow product to freeze and store above 50 degrees F.

DISPOSAL STATEMENTS

Dispose of contents/container to an approved waste disposal plant.

HAZARD(S) NOT OTHERWISE CLASSIFIED (HNOC): None known

SUPPLEMENTAL INFORMATION: IARC has assigned Titanium Dioxide to Group 2B. Substances assigned to the group as described as "possibly carcinogenic to humans." IARC also states that "evidence of carcinogenicity in humans is inadequate."

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight %*
Modified acrylic resin	N/A - Mixture	30-40
Water	7732-18-5	30-40
Titanium Dioxide	13463-67-7	5-10
Insulation particles	66402-68-4	10-20
Ammonia	7664-41-7	1-5
Calcium Carbonate	1317-65-3	15-25
Surfactant	1314-13-2	1-5

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

SECTION 4: FIRST AID MEASURES

GENERAL ADVICE: Avoid contact with eyes and clothing. If exposed or concerned, get medical advice/attention. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Get medical attention if symptoms occur. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

EYES: Liquid splashed in the eye may cause transient eye irritation. Flush immediately with large amounts of water for at least 15 minutes lifting the upper and lower eye lids occasionally. Take to a physician for medical treatment.

SKIN: Short term exposure may cause transient skin irritation. Remove with soap and water and flush with copious amounts of water to the exposed areas to rinse the material away. If clothing was contaminated, remove and clean before reuse.

INGESTION: If ingested, contact a physician, hospital emergency room or poison control center immediately. Do NOT induce vomiting and do NOT give anything by mouth to an unconscious person.

INHALATION: Inhalation of mists may cause mild respiratory irritation. Remove from the exposure and provide with plenty of fresh air.

MOST IMPORTANT SYMPTOMS: Causes eye irritation.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: Any treatment that might be required for overexposure should be directed at the symptoms and the clinical conditions.

SECTION 5: FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Water fog. Dry chemical. Carbon dioxide (CO₂). Cool containers with water spray.

UNSUITABLE EXTINGUISHING MEDIA: Do not use a solid water stream or jet.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL: Carbon monoxide and carbon dioxide are the largest portion of products of combustion. There will be hazardous gases of hydrogen chloride (HCL), other organic acids, and aldehydes as well.

FLASH POINT: None

SENSITIVITY TO MECHANICAL IMPACT: None

SENSITIVITY TO STATIC DISCHARGE: None

FLASH POINT: None. This is a waterborne product with trace quantities of organic vapors. No ignition will occur until the water is evaporated.

PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Use shielding to protect fire-fighters from bursting containers.

CAUTION: If closed containers are exposed to extreme heat, they may explode due to high steam pressure buildup.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES

Use with adequate ventilation to keep the exposure levels below the OELS.

ENVIRONMENTAL PRECAUTIONS

In the advent of a spill, contact the proper authorities as required. Do not allow large spills to get into any waterway, dry creek, sewer, or water supply.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN-UP

Small spills should be confined with inert absorbent. Collect in a proper, non-combustible container for disposal. Do not put contaminated paint into unused paint. Dispose of in accordance with local regulations.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Avoid contact with eyes and prolonged exposure with skin. Avoid breathing vapors or mists. Wear personal protective equipment. Use with adequate ventilation. Do not empty into drains. When using, do not eat, drink, or smoke.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES: Keep containers tightly closed and store in a dry, well-ventilated area. Temperatures of storage should be between 50F and 90F. Protect from freezing and keep out of direct sunlight for extended periods.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Titanium Dioxide (13463-67-7)	-	TWA: 15 mg/m ³	-
Calcium Carbonate (1317-65-3)	-	TWA: 15 mg/m ³	-

ACGIH: American Conference of Governmental Industrial Hygienists

OSHA: Occupational Safety & Health Administration

NIOSH IDLH: Immediately Dangerous to Life or Health

ENGINEERING MEASURES: In most cases, application of roof coating, ventilation is expected to be adequate. However, if applied in confined areas, assure adequate ventilation through the use of fans, blowers, etc.

INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT (PPE)

EYE/FACE PROTECTION: Use safety goggles with side shields for eye protection. As a precautionary measure, it is recommended that a supply of clean water be readily available for an eye wash.

SKIN/BODY PROTECTION: The use of nitrile rubber gloves is recommended. Contaminated clothing and rags should be handled in compliance with local regulations. Contaminated clothing should be cleaned before reuse.

RESPIRATORY PROTECTION: If exposure limits are exceeded or irritation is experienced, use an appropriate, properly fitted NIOSH/MSHA approved respirator to protect against spray mist and vapors. Refer to OSHA 29 CFR 1910.134 titled "Respiratory Protection" for further suggestions.

GENERAL HYGIENE CONSIDERATIONS: When using, do not eat, drink, or smoke. Avoid contact with eyes and avoid prolonged contact with skin. Wash hands before breaks and immediately after handling the material. Handle in accordance with good industrial hygiene and safety practices.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

APPEARANCE: Thick emulsion mixture

COLOR: White

ODOR: Slight ammonia

ODOR THRESHOLD: Not available

PROPERTY VALUES

pH: 6-11

MELTING/FREEZING POINT: 32 F (0 C) Freezing Point

BOILING POINT/BOILING RANGE: Approx. 212 F (100 C)

FLASH POINT: None

EVAPORATION RATE: Like Water

FLAMMABILITY (SOLID, GAS): Not available

FLAMMABILITY LIMITS IN AIR: Not available

Upper Flammability Limits: Not available

Lower Flammability Limits: Not available

VAPOR PRESSURE: Not available

VAPOR DENSITY (AIR = 1): Heavier than air

SPECIFIC GRAVITY (H₂O = 1): 1.1

WATER SOLUBILITY: Partially soluble

PARTITION COEFFICIENT: N-OCTANOL/WATER: No data available

AUTOIGNITION TEMPERATURE: Not available

VISCOSITY: Not available

EXPLOSIVE PROPERTIES: Not available

VOC CONTENT (%): 0

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: No data available

CHEMICAL STABILITY: This material is stable when stored at common room temperature and use conditions. Protect from freezing.

POSSIBILITY OF HAZARDOUS REACTIONS: None known under normal processing.

CONDITIONS TO AVOID: Extremes of temperature and direct sunlight.

INCOMPATIBLE MATERIALS: Solvents will coagulate the product.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Monoxide, Carbon Dioxide, Hydrogen Chloride, Organic Acids and Aldehydes.

HAZARDOUS POLYMERIZATION: None

SECTION 11: TOXICOLOGICAL INFORMATION

INFORMATION ON LIKELY ROUTES OF EXPOSURE

INGESTION: Not acutely toxic. May cause vomiting or headache.

INHALATION: Exposure to high vapor concentrations may cause nervous system effects such as headache, nausea, and/or dizziness.

SKIN CONTACT: Irritating with prolonged contact to skin. May defat the skin and produce dermatitis.

EYE CONTACT: Irritating to eyes.

INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE TOXICITY: Not acutely toxic.

SKIN CORROSION/IRRITATION: Prolonged or repeated exposure may cause dermatitis.

SERIOUS EYE DAMAGE/EYE IRRITATION: Contact with eyes may cause irritation.

RESPIRATORY SENSITIZATION: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

SKIN SENSITIZATION: Irritating to skin.

GERM CELL MUTAGENICITY: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

CARCINOGENICITY: The table below indicates whether each agency has evaluated a listed ingredient as a carcinogen

Chemical Name	ACGIH	IARC*	NTP	OSHA
Modified acrylic resin	-	-	-	-
Water	-	-	-	-
Titanium Dioxide	10 mg/m3	Group 2B	-	10 mg/m3
Insulation particles	15 mg/m3	-	-	15 mg/m3
Ammonia	17 mg/m3	-	-	35 mg/m3
Calcium Carbonate	10 mg/m3	Group 2B	-	15 mg/m3
Surfactant	5 mg/m3	-	-	15 mg/m3

*International Agency for Research on Cancer

REPRODUCTIVE TOXICITY: The ingredients are not reproductive hazards.

SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE: May cause respiratory irritation.

SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE: No information available.

ASPIRATION HAZARD: No information available.

CHRONIC EFFECTS: Intentional misuse by deliberately concentrating or inhaling contents may be harmful or fatal. Chronic hydrocarbon abuse has been associated with irregular heart rhythms and potential cardiac arrest. Prolonged skin contact may defat the skin and produce dermatitis.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: Not expected to be harmful to aquatic organisms.

PERSISTENCE AND DEGRADABILITY: Not available.

BIOACCUMULATIVE POTENTIAL: Not available.

MOBILITY IN SOIL: Not available

OTHER ADVERSE EFFECTS: Not available

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL INSTRUCTIONS: Dispose of contents/container in accordance with local/regional/national/international regulations.

HAZARDOUS WASTE CODE: Not available

WASTE FROM RESIDUES/UNUSED PRODUCTS: Package and label properly for disposal. Take all paint that cannot be used to approved recycle centers, paint roundups, or county facilities that are approved collection sites. Contact county, city or state health services of fire departments to find the nearest recycle center. Do NOT dispose of in water streams or sewers. In many areas, dried paint may be disposed of into regular trash containers. Check with your local authorities before disposal.

CONTAMINATED PACKAGING: Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (DOT) GROUND

PROPER SHIPPING NAME: Roofing Coating, Non Hazardous

HAZARD CLASS: N/A*

ID NUMBER: N/A

PACKING GROUP: 55

*This product is a water born product with a flash point over 212 F(100 C). It is classified as Non-Combustible and Non-Hazardous.

IATA: Not regulated

IMDG: Not regulated

SECTION 15: REGULATORY INFORMATION

INTERNATIONAL INVENTORIES

Country(s) or Region	Inventory Name	On Inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
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)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

U.S. FEDERAL REGULATIONS

SARA 313: Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Acute Health Hazard: No
Chronic Health Hazard: No
Fire Hazard: No
Pressure Hazard: No
Reactive Hazard: No

CLEAN WATER ACT/ OIL POLLUTION ACT: This product may be classified as an oil under Section 311 of the Clean Water Act and under the Oil Pollution Act. Discharges or spills must be reported to the National Response Center (1-800-424-8802).

CERCLA: This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

TSCA (TOXIC SUBSTANCE CONTROL ACT): All materials are in compliance with TSCA requirements for commercial use.

U.S. STATE REGULATIONS

STATE RIGHT TO KNOW (PA, MA, NJ): This product contains no known hazardous materials in excess of 1% (or 0.1% for carcinogens).

CALIFORNIA PROPOSITION 65: There are no chemicals present known to the State of California to cause cancer or reproductive toxicity.

CANADA

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS HAZARD CLASS: No information

SECTION 16: OTHER INFORMATION

NFPA

Health Hazard: 1

Flammability: 0

Instability: 0

Physical and Chemical Hazards: -

HMIS

Health Hazard: 1

Flammability: 0

Instability: 0

Personal Protection: B

ISSUING DATE: 10-22-2015

REVISION DATE: None

REVISION NOTE: None

DISCLAIMER: The information in this document is based on the information received from supplier sources and the experience of Triton, Inc. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text. No representation or warranty is made by Triton, Inc. as to the accuracy or completeness of the information. Triton, Inc. makes no warranty, express or implied as to the usability of the product.