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***** Section 1 - Product and Company Identification *****

Manufacturer/Importer Information

Therma-Tru Corporation
108 RE Jones Road
Butler IN, 46721

Emergency Phone: CHEMTREC, U.S. : (800) 424-9300
International: (703) 527-3887

Product Identifier

TUS-CM1-XX-1402

Recommended Use

Touch up and repair.

Restrictions on Use

No restrictions available.

***** Section 2 – Hazards Identification *****

GHS Classification

- SKIN IRRITATION – Category 3
- EYE IRRITATION – Category 2A
- CARCINOGENICITY – Category 2
- FLAMMABLE LIQUIDS – Category 4
- ACUTE TOXICITY, DERMAL – Category 5
- ACUTE TOXICITY, ORAL – Category 4

GHS Label Elements


Symbol(s)



Signal Word - Warning

Hazard Statements

- Causes mild skin irritation
- Causes serious eye irritation

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Suspected of causing cancer
Harmful if swallowed
May be harmful in contact with skin

Precautionary Statements

Prevention

Wash with water and soap thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and ignition sources. No smoking. Do not eat, drink or smoke when using this product.

Response

If skin irritation occurs: get medical advice/attention. IF IN EYES: remove cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: if exposed or concerned: in case of fire: Use DRY chemical, alcohol-resistant foam, carbon-dioxide, water spray/fog extinguish. IF SWALLOWED: call a POISON CENTER or doctor if you feel unwell. Rinse mouth.

Storage


Store locked up. Store in a well-ventilated place.

* * * Section 3 – Composition / Information on Ingredients * * *

CAS #	Component	Percent
NA-ERAEnviro	Non hazardous volatile	69-84%
13463-67-7	Titanium dioxide	19.11-23%
111-76-2	Ethylene glycol monobutyl ether	2.02-2.07%
126-86-3	2,4,7,9-tetramethyl-5-decyne-4,7-diol	Trace
1333-86-4	Carbon black	Trace
111-30-8	Glutaraldehyde	Trace

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

* * * Section 4 – First Aid Measures * * *

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First Aid: Eyes

Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for a duration of 15-20 minutes. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists: get medical attention/ advice.

First Aid: Skin

Take off immediately all contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Rinse skin with lukewarm, gently flowing water for a duration of 15-20 minutes. Immediately call a POISON CENTER/doctor. Wash contaminated clothing before re-use or discard.

First Aid: Ingestion

Rinse mouth. Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. If vomiting occurs naturally, lie on your side, in the recovery position.

First Aid: Inhalation

Remove source of exposure or move person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor, if you feel unwell.

***** Section 5 – Fire Fighting Measures *****

General Fire Hazards

See Section 9 for Flammability Properties.
In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous Combustion Products

Carbon dioxide, carbon monoxide and metal oxide/oxides.

Extinguishing Media


Dry chemical, foam, carbon dioxide is recommended. Water spray is recommended to cool or protect exposed materials or structures. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.

Unsuitable Extinguishing Media

No data available.

Fire Fighting Equipment/Instructions

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Water may be ineffective but can be used to cool containers exposed to heat or flame. Caution should be exercised when using water or foam as frothing may

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occur, especially if sprayed into containers of hot, burning liquid. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

***** Section 6 – Accidental Release Measures *****

Recovery and Neutralization

Stop the source of the release, if safe to do so.

Materials and Methods for Clean-Up

Small spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Emergency Measures

Do not touch or walk through spilled material. Isolate hazard area and keep unnecessary people away. Remove all possible sources of ignition in the surrounding area. Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

Personal Precautions and Protective Equipment


Avoid breathing vapor. Avoid contact with skin, eye or clothing. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing. If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in “For nonemergency personnel.”

Environmental Precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Prevention of Secondary Hazards

None

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***** Section 7 – Handling and Storage *****

Handling Procedures

Wash hands after use. Do not get in eyes, on skin or on clothing. Do not breathe vapors or mists. Use good personal hygiene practices. Eating, drinking and smoking in work areas is prohibited. Remove contaminated clothing and protective equipment before entering eating areas.

Storage Procedures

Keep container(s) tightly closed and properly labeled. Store in cool, dry, well-ventilated areas away from heat, direct sunlight, strong oxidizers and any incompatibilities. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet OSHA standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty containers retain residue and may be dangerous. Use non-sparking ventilation systems, approved explosion-proof equipment and intrinsically safe electrical systems in areas where this product is used and stored.

Incompatibilities

No specific data.

***** Section 8 – Exposure Controls / Personal Protection *****

Component Exposure Limits


Name (CAS #)	OSHA – PEL	ACGIH – TLV
Ethylene glycol monobutyl ether (111-76-2)	OSHA TWA: 50 ppm TWA: 240 mg/m ³	ACGIH TWA: 97 mg/m ³ TWA: 20 ppm
Titanium dioxide (13463-67-7)	OSHA TWA: 15 mg/m ³	ACGIH TWA: 10 mg/m ³
Carbon black (1333-86-4)	OSHA TWA: 3.5 mg/m ³	ACGIH TWA: 20 ppm ACGIH TWA: 3 mg/m ³

Engineering Measures

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Personal Protective Equipment: Hygiene

Not available

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Personal Protective Equipment: Respiratory

Half-mask air purifying respirator with organic vapor cartridges is acceptable for exposures to ten (10) times the exposure limit. Full-face air purifying respirator with organic vapor cartridges is acceptable for exposures to fifty (50) times the exposure limit. Exposure should not exceed the cartridge limit of 1000 ppm. Protection by air purifying respirators is limited. Use a positive pressure demand full-face supplied air respirator or SCBA for exposures greater than fifty (50) times the exposure limit.

If the exposure is above the IDHL (Immediately Dangerous to Life and Health) or there is the possibility of an uncontrolled release, or exposure levels are unknown, then use a positive pressure-demand full-face supplied air respirator with escape bottle or SCBA. Wear a NIOSH/MSHA-approved (or equivalent) full-faced airline respirator in the positive pressure mode with emergency escape provisions. If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed. Check with respiratory protective equipment suppliers..

Personal Protective Equipment: Hands

Not available

Personal Protective Equipment: Eyes


Wear eye protection with side shields or goggles. Wear indirect-vent, impact and splash resistant goggles when working with liquids. If additional protection is needed for entire face, use in combination with a face shield.

Personal Protective Equipment: Skin and Body

Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Always seek advice from glove suppliers. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Launder soiled clothes or properly disposed of contaminated material, which cannot be decontaminated.

***** Section 9 – Physical & Chemical Properties *****

Appearance:	NA	Odor:	NA
Physical State:	NA	pH:	NA
Vapor Pressure:	NA	Vapor Density:	NA
Boiling Point:	NA	Melting Point:	NA
Solubility (H2O):	NA	Specific Gravity:	NA

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Evaporation Rate:	NA	VOC:	NA
Octanol/H2O Coeff.:	NA	Flash Point:	NA
Flash Point Method:	NA	Upper Flammability Limit (UFL):	NA
Lower Flammability Limit (LFL):	NA	Burning Rate:	NA
Auto Ignition Temperature	NA		

***** Section 10 – Chemical Stability & Reactivity Information *****

Chemical Stability

The product is stable.

Hazardous Reaction Potential

Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to Avoid

No specific data.

Incompatible Products

No specific data.

Hazardous Decomposition Products

Decomposition products include: carbon dioxide, carbon monoxide, and metal oxides/oxide.

***** Section 11 – Toxicological Information *****


Acute Toxicity

A: General Product Information

Ethylene glycol monobutyl ether can be absorbed through the skin in harmful amounts. May cause injury to the kidneys, liver, blood and/or bone marrow. Repeated overexposure may result in damage to the blood. Eye contact may cause corneal injury. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother.

B: Component Analysis – LD50/LC50

Name (CAS#)	Results	Species	Dose	Exposure
Ethylene glycol monobutyl ether (1111-76-2)	LC50	Female rat	450 ppm	4 hours
	LC50	Male rat	486 ppm	4 hours
	LD50 Oral	Male rat	3000 mg/kg	
	LD50 Oral	Male rat	2400 mg/kg	
	LD50 Oral	Male rat	560 mg/kg	
	LD50 Oral	Female rat	530 mg/kg; 2500 mg/kg	
	LD50 Oral	Rabbit	320 mg/kg	

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	LD50 Dermal	Rabbit	406 mg/kg	
Carbon black (1333-86-4)	LC50	Rat	27mg/L	1 hour
Glutaraldehyde (111-30-8)	LD50 Oral	Male rat	134 mg/kg	
	LD50 Oral	Female rat	165 mg/kg	
	LD50 Oral	Male rat	600 mg/kg	
	LD50 Oral	Male mouse	100 mg/kg	
	LD50 Oral	Female mouse	110 mg/kg	
	LD50 Oral	Rat	468 mg/kg	
	LD50 Dermal	Rabbit	600 mg/kg	
	LC50	Male rat	24 ppm	
LC50	Female rat	40 ppm	4 hours	

Potential Health Effects: Skin Corrosion Property

Causes mild skin irritation.

Potential Health Effects: Eye Critical Damage

Causes serious eye irritation.

Potential Health Effects: Ingestion

No data available.

Potential Health Effects: Inhalation

No data available.

Respiratory Organs Sensitization/Skin Sensitization

No data available.

Generative Cell Mutagenicity


No data available.

Carcinogenicity

A: General Product Information

Suspected of causing cancer.

Titanium dioxide is an IARC, NTP, OSHA carcinogen. In a lifetime inhalation test, lung cancers were found in some rats exposed to 250 mg/m³ respirable titanium dust. Analysis of the titanium dioxide concentrations in the rat's lungs showed that the lung clearance mechanism was overwhelmed and that the results at the massive 250 mg/m³ level are not relevant to the workplace. Results of a DuPont epidemiology study showed that employees who had been exposed to Titanium Dioxide were at no greater risk of developing lung cancer than were employees who had not been exposed to Titanium Dioxide. No pulmonary fibrosis was found in any of the employees and no association was observed between Titanium Dioxide exposure and chronic respiratory disease or x-ray abnormalities. Based on the results of this study DuPont concludes that Titanium

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Dioxide will not cause lung cancer or chronic respiratory disease in humans at concentrations experienced in the workplace.

B: Component Carcinogenicity

No data available.

Reproductive Toxicity

No data available.

Specified Target Organ General Toxicity: Single Exposure

No data available.

Specified Target Organ General Toxicity: Repeated Exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration Respiratory Organs Hazard

No data available.

***** Section 12 – Ecological Information *****

Ecotoxicity

A: General Product Information

No information available.

B: Component Analysis - Ecotoxicity – Aquatic and Terrestrial Toxicity

No information available.

Persistence/Degradability

Product is not expected to persist in the environment.

Bioaccumulation


No information available.

Mobility in Soil

No information available.

***** Section 13 – Disposal Considerations *****

Disposal should be in accordance with applicable regional, national and local laws and regulations.

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Waste Disposal Instructions

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

***** Section 14 – Transportation Information *****

DOT Information: Not regulated as a DOT hazardous material.

***** Section 15 – Regulatory Information *****

Regulatory Information

Component Analysis

This material contains one or more of the following chemicals required to be identified under SARA Section 313 (40 CFR 372.65) and/or the Clean Air Act (CAA) 112, regulated toxic substances.

SARA Section 311/312 – Hazard Classes


SARA SECTION 313 - SUPPLIER NOTIFICATION

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and of 40 CFR 372:

- Titanium dioxide (13463-67-7): 19.11-23%
- Ethylene glycol monobutyl ether (111-76-2): 2.02-2.07%
- Carbon black (1333-86-4): Trace
- Glutaraldehyde (111-30-8): Trace

California Prop. 65

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

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Name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Titanium dioxide	Yes	No	No	No
Ethylene glycol monobutyl ether	Yes	No	No	No
Carbon black	Yes	No	No	No

***** Section 16 – Other Information *****

Disclaimers

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.

Language for consideration:

Information presented in this Safety Data Sheet for the product(s) described in Section 1 (“Product”) has been compiled from sources considered to be dependable, accurate, and reliable, but manufacturer/importer does not guarantee the accuracy of any information presented. Except as expressly provided otherwise in a written contract executed by manufacturer/importer, to the fullest extent permitted by applicable law, manufacturer/importer disclaims, and the recipient or user of this safety data sheet (“recipient”) hereby expressly waives, any and all warranties, whether express, implied or statutory, with respect to the product or this safety data sheet, and any results or effect obtained from their use by recipient and/or other users, including, without limitation, any statutory or implied warranties of merchantability or fitness for a particular purpose. Manufacturer/importer specifically, but not by way of limitation, disclaims any and all liability for the use or performance of the product or safety data sheet by recipient, recipient’s customers and/or other users.