

SAFETY DATA SHEET

Revision date 2021-Nov-03

Revision number 1.02

1. IDENTIFICATION

Product identifier

Product name TRIMETHYLOLETHANE All Grades
TRIMETHYLOLETHANE - TECHNICAL, GRANULAR, BRIQUETTES, PURE

Other means of identification

Product code 3106T
Synonyms TRIMET®; TME; 1,1,1-Trimethanolethane; 1,1,1-Trimethylolethane.

Recommended use of the chemical and restrictions on use

Recommended use [RU] No information available
Uses advised against None known

Details of the supplier of the safety data sheet

Supplier GEO Specialty Chemicals, Inc.
2409 N. Cedar Crest Blvd.
Allentown, PA 18104-9733
+1-610-433-6330
Hours: Monday-Friday 9:00-5:00 EST (Eastern Standard Time)

Contact Point safety-data-sheet-fp@geosc.com

Emergency telephone number

24 Hour Emergency Phone Number CHEMTREC: (800) 424-9300
Outside USA - +1 (703) 527-3887 collect calls accepted

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Reproductive toxicity	Category 2
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EMERGENCY OVERVIEW

Physical state solid	Color white	Appearance granules, briquettes	Odor odorless
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GHS Label elements, including precautionary statements

**WARNING****Hazard statements**

Suspected of damaging fertility or the unborn child.

Precautionary Statements - Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

Precautionary Statements - Storage

Store locked up.

Precautionary Statements - Disposal

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

Other information

- Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No	weight-%	TRADE SECRET
Trimethylolethane	77-85-0	> 95%	*

If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

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

4. FIRST AID MEASURES

First Aid Measures**Eye contact**

Remove contact lenses, if worn. Immediately flush with plenty of water for at least 15 minutes, holding eyelids apart to ensure flushing of the entire surface. Washing within one minute is essential to achieve maximum effectiveness. Get medical attention if irritation develops and persists.

Skin contact

Immediately flush skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

Ingestion

Do NOT induce vomiting. If vomiting should occur spontaneously, keep airway clear. Never give anything by mouth to an unconscious person. Get medical attention.

Inhalation

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician immediately.

Most important symptoms and effects, both acute and delayed

Acute effects

May cause mild skin, eye, and respiratory tract irritation.

Chronic effects

Suspected of damaging fertility or the unborn child.

Aggravated Medical Conditions

Existing skin and lung conditions.

Indication of any immediate medical attention and special treatment needed**Note to physicians**

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Extinguishing media**Suitable extinguishing media**

Water fog, carbon dioxide, foam, dry chemical.

Extinguishing media which must not be used for safety reasons

No information available.

Special hazards arising from the substance or mixture**Special Hazard**

Avoid creating explosive concentrations of dust. Risk of dust explosion in fine crystalline powder form.

Advice for firefighters**Firefighting measures**

Cool exposed containers with water spray after extinguishing fire.

Special protective equipment for firefighters

Electrical grounding of equipment is required when handling powder to prevent possible dust explosion.

Explosion data**Sensitivity to Mechanical Impact**

None.

Sensitivity to Static Discharge

None.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures**Personal precautions**

Wear suitable protective clothing and gloves.

Environmental precautions**Environmental precautions**

Do not allow to enter sewer or surface and subsurface waters.

Methods and material for containment and cleaning up

Methods for containment

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Clear spills immediately. Soak up small spills with inert absorbent material and place in a labeled waste container for disposal. Spills of solution are extremely slippery so all residue must be removed promptly. Provide adequate ventilation to spill area.

7. HANDLING AND STORAGE

Precautions for safe handling**Advice on safe handling**

Keep container closed when not in use

Avoid generation of dust

Keep away from open flames, hot surfaces and sources of ignition. Conveying and processing equipment should be spark proof, electrically bonded and grounded.

Avoid breathing dust. Use only with adequate ventilation. Use respiratory protection where dust may be generated.

Avoid contact with eyes, skin and clothing. Wash thoroughly after handling

Do not take internally

FOR INDUSTRIAL USE ONLY.

Conditions for safe storage, including any incompatibilities**Technical measures and storage conditions**

Store in a cool, dry place away from ignition sources and open flame.

Incompatible products

Isocyanates. Acids. Aldehydes. Oxidizers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters**Exposure Guidelines**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

Appropriate engineering controls**Engineering controls**

Local exhaust ventilation as necessary to maintain exposures to within applicable limits. Please refer to the ACGIH document, "Industrial Ventilation, A Manual of Recommended Practices", most recent edition, for details. If there are no applicable or established exposure limit requirements or guidelines, general ventilation should be sufficient.

Individual protection measures, such as personal protective equipment**Eye/face Protection**

Dust protection eye glasses.

Hand Protection

Appropriate chemical resistant gloves should be worn

Skin and body protection

Standard work clothing and work shoes.

Respiratory protection

If exposures exceed the PEL or TLV, use NIOSH/MSHA approved respirator in accordance with OSHA Respiratory Protection Requirements under 29 CFR 1910.134. If there are no applicable or established exposure limit requirements or guidelines, general ventilation should be sufficient.

Other personal protection data

Eyewash fountains and safety showers must be easily accessible.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

Physical state	solid
Color	white
Appearance	granules, briquettes
Odor	odorless
Odor threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks / Method</u>
pH	No information available	No information available
Melting / freezing point	180 °C / 356 °F	No information available
Boiling point / boiling range	No information available	No information available
Flash point	150 °C / 302 °F	Pensky-Martens Closed Cup (PMCC)
Evaporation rate	4.2	No information available
Flammability (solid, gas)	No information available	No information available
Flammability Limit in Air		
Upper flammability limit	No information available	No information available
Lower flammability limit	No information available	No information available
Vapor pressure	< 1 mm Hg	No information available
Vapor density	No information available	No information available
Specific gravity	No information available	No information available
Solubility (water)	Soluble	No information available
Solubility in other solvents	No information available	No information available
Partition coefficient: n-octanol/water	No information available	No information available
Autoignition temperature	No information available	No information available
Decomposition temperature	No information available	No information available
Kinematic viscosity	No information available	No information available
Dynamic viscosity	No information available	No information available

Other information

Density	No information available
Bulk Density	48.6 lb/ft ³
Explosive properties	No information available

Oxidizing properties	No information available
Softening point	No information available
Molecular weight	120.2 g/mol
Volatile Organic Compound (VOC) content, wt.%	No information available
Percent Volatile, wt.%	No information available

10. STABILITY AND REACTIVITY

Reactivity

Reactivity

No data available.

Chemical stability

Chemical stability

Stable under normal conditions of handling, use and transportation.

Possibility of hazardous reactions

Possibility of hazardous reactions

None under normal processing.

Hazardous polymerization

Not anticipated under normal or recommended handling and storage conditions.

Conditions to avoid

Conditions to avoid

None known.

Incompatible materials

Materials to avoid

Isocyanates. Acids. Aldehydes. Oxidizers.

Hazardous decomposition products

Hazardous decomposition products

Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Eye contact

May cause slight irritation.

Skin contact

Causes mild skin irritation.

Ingestion

Low toxicity by this route.

Inhalation

Exposure to dust particles generated from this material may cause irritation of the respiratory tract.

Acute toxicity - Product Information

Oral LD50

> 5000 mg/kg (rat)

Dermal LD50 No information available

Inhalation LC50 No information available

Information on toxicological effects

Symptoms

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation

Mild skin irritation

Serious eye damage/eye irritation

Mild eye irritation

Sensitization

No information available

Germ cell mutagenicity

No information available

Carcinogenicity

This product does not contain any components in concentrations greater than or equal to 0.1% that are listed as known or suspected carcinogens by NTP, IARC, ACGIH, or OSHA.

Reproductive toxicity

Suspected of damaging fertility or the unborn child (analogy)

Specific target organ toxicity - Single exposure

Respiratory system.

Specific target organ toxicity - Repeated exposure

No information available

Aspiration hazard

No information available.

Other information

Conclusions are drawn from sources other than direct testing.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Acute aquatic toxicity - Product Information

Fish LC 50 (96 hrs) > 100 mg/L - analogous material

Crustacea EC 50 (96 hrs) >1,000 mg/L - analogous material

Algae/aquatic plants No information available

Persistence and degradability

Persistence and degradability

This product is readily biodegradable
99% (Zahn-Wellen Test); COD = 1620 mg/g - analogous material

Bioaccumulative potential

Bioaccumulative potential
No information available

Mobility

Mobility
No information available

Results of PBT and vPvB assessment

PBT and vPvB assessment
No information available

Other adverse effects

Other information
No other ecological studies have been carried out on this product.

13. DISPOSAL CONSIDERATIONS**Waste treatment methods**

Disposal of wastes
Do not put solutions containing this product into sewer systems. Dispose of product in an approved chemical waste landfill or incinerate in accordance with applicable Federal, state and local regulations.

Contaminated packaging
Since empty containers retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION

DOT Not regulated

ICAO/IATA Not regulated

IMDG Not regulated

15. REGULATORY INFORMATION**International Inventories**

United States (TSCA)
All ingredients are on the inventory or exempt from listing

Australia (AICS)
All ingredients are on the inventory or exempt from listing

Canada (DSL)
All ingredients are on the inventory or exempt from listing

Canada (NDSL)
None of the ingredients are on the inventory.

China (IECSC)
All ingredients are on the inventory or exempt from listing

European Union (EINECS)

All ingredients are on the inventory or exempt from listing

European Union (ELINCS)

None of the ingredients are on the inventory.

Japan (ENCS)

All ingredients are on the inventory or exempt from listing

South Korea (KECL)

All ingredients are on the inventory or exempt from listing

Philippines (PICCS)

All ingredients are on the inventory or exempt from listing

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

AICS - Australian Inventory of Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

IECSC - China Inventory of Existing Chemical Substances

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

U.S. Federal Regulations**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.

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

U.S. State Regulations**California Proposition 65****WARNING**

This product can expose you to chemicals including those listed below, which is [are] known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Component	California Proposition 65
Formaldehyde 50-00-0	carcinogen, 1/1/1988 (gas)

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations

16. OTHER INFORMATION

NFPA Rating	Health - 1	Flammability - 1	Instability - 0	Special Hazard -
HMIS Rating	Health - 1	Flammability - 1	Physical hazards - 0	Personal protection - E

Product code 3106T
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Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

End of Safety Data Sheet