

SAFETY DATA SHEET

Revision date 2022-Aug-08

Revision number 2.03

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name TRIMETHYLOLETHANE All Grades
TRIMETHYLOLETHANE - TECHNICAL, GRANULAR, BRIQUETTES, PURE
Product code 3106T
Synonyms TRIMET®; TME; 1,1,1-Trimethanolethane; 1,1,1-Trimethylolethane.
REACH registration number 01-2120757439-41-0000

1.2 Relevant identified uses of the substance or mixture and uses advised against

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

1.3 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)

Only representative

ERM GmbH
Siemensstrasse 9
63263 Neu-Isenburg
Germany
Phone: +49 (0) 6102 206 0
Fax: +49 (0) 61 02 206-202

Responsibility Statement For further information, please contact safety-data-sheet-fp@geosc.com

1.4 Emergency telephone number

Emergency telephone 24 Hour Emergency Phone Number
GEO Specialty Chemicals UK Ltd
+44 (0)23 80891806

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Reproductive toxicity	Category 2
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2.2 Label elements

Labeling according to Regulation (EC) No. 1272/2008 [CLP]



Signal word WARNING

Hazard statements

H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child

Precautionary statements

P201 - Obtain special instructions before use
 P202 - Do not handle until all safety precautions have been read and understood
 P280 - Wear protective gloves/protective clothing/eye protection/face protection
 P308 + P313 - IF exposed or concerned: Get medical advice/attention
 P405 - Store locked up
 P501 - Dispose of contents/ container to an approved waste disposal plant

2.3 Other Information

None known

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Component	EU EINECS	weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	(REACH) Regulation (EC 1907/2006)
Trimethylolethane 77-85-0	201-063-9	> 95%	Repr. 2 (H361fd)	Registration Number 01-2120757439-41-0000

For the full text of the H-Statements mentioned in this Section, see Section 16.

3.2 Mixtures

Not applicable

4. FIRST AID MEASURES

4.1 Description of 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. If eye irritation persists: Get medical advice/attention.

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.

4.2 Most important symptoms and effects, both acute and delayed

Most important symptoms and effects

No information available.

Aggravated Medical Conditions

Existing skin and lung conditions.

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

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media**Suitable extinguishing media**

Water mist. Carbon dioxide (CO₂). Foam. Dry chemical.

Extinguishing media which must not be used for safety reasons

No information available.

5.2 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.

5.3 Advice for firefighters**Special protective equipment for firefighters**

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

Firefighting measures

Cool exposed containers with water spray after extinguishing fire.

6. ACCIDENTAL RELEASE MEASURES

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

Wear suitable protective clothing and gloves.

6.2 Environmental precautions**Environmental precautions**

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

6.3 Methods and material for containment and cleaning up**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.

6.4 Reference to other sections

See Section 12 for additional Ecological Information

7. HANDLING AND STORAGE

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

Keep container closed when not in use
 Avoid creating dust. Use respiratory protection where dust may be generated.
 Use only with adequate ventilation
 Avoid contact with eyes, skin and clothing
 Wash thoroughly after handling
 Do not take internally
 Keep away from open flames, hot surfaces and sources of ignition
 Conveying and processing equipment should be spark proof, electrically bonded and grounded.
 FOR INDUSTRIAL USE ONLY.

7.2 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.

7.3 Specific end use(s)**Specific use(s)**

Not applicable

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters****Occupational exposure limit value**

Component	European Union	United Kingdom	Spain	Germany
Trimethylolethane 77-85-0	NAV	NAV	NAV	NAV

Biological limit values

Component	European Union	United Kingdom	Spain	Germany
Trimethylolethane 77-85-0	NAV	NAV	NAV	NAV

Legend

NAV - Not available

8.2 Exposure controls**Personal Protective Equipment****Eye/face Protection**

Dust protection eye glasses.

Hand Protection

Appropriate chemical resistant gloves should be worn

Skin and body protection

Wear suitable protective clothing.

Respiratory protection

Appropriate respiratory protection shall be worn when applied engineering controls are not adequate to protect against inhalation exposure above the listed occupational exposure limits.

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.

Environmental exposure controls

No information available.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 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</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
Density	No information available	No information available

9.2 Other information

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

10.1 Reactivity

Reactivity

No information available.

10.2 Chemical stability

Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous polymerization

Not anticipated under normal or recommended handling and storage conditions.

10.4 Conditions to avoid

Conditions to avoid

None.

10.5 Incompatible materials

Materials to avoid

Oxidizers. Acids. Aldehydes. Isocyanates.

10.6 Hazardous decomposition products

Hazardous decomposition products

Carbon monoxide. Carbon dioxide.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute health hazard

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

Oral LD50 > 5000 mg/kg (rat)

Dermal LD50 No information available

Inhalation LC50

No information available

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

No information available

Reproductive toxicity

Suspected of damaging fertility or the unborn child (analogy)

Specific target organ toxicity - Single exposure

No information available

Specific target organ toxicity - Repeated exposure

No information available

Aspiration hazard

No information available

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Acute aquatic toxicity

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

12.2 Persistence and degradability

Persistence and degradability

This product is readily biodegradable

99% (Zahn-Wellen Test); COD = 1620 mg/g - analogous material

12.3 Bioaccumulative potential

Bioaccumulative potential

No information available

12.4 Mobility in soil

Mobility

No information available.

12.5 Results of PBT and vPvB assessment

PBT and vPvB assessment

No information available

12.6 Other adverse effects

Other information

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

13. DISPOSAL CONSIDERATIONS

13.1 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.

Waste codes / waste designations according to EWC / AVV

07.01.99; wastes not otherwise specified

14. TRANSPORT INFORMATION

US DOT Not regulated

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

14.6. Special precautions for user

Land transport (ADR/RID) Not regulated

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

14.6. Special precautions for user

Air transport (ICAO-TI / IATA-DGR) Not regulated

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

14.6. Special precautions for user

Sea transport (IMDG) Not regulated

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

14.6. Special precautions for user

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

Not applicable

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

International Inventories

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

United States (TSCA)

All ingredients are on the inventory or exempt from listing

Legend

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

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

15.2 Chemical Safety Report

No information available.

16. OTHER INFORMATION

Product code 3106T

Revision date 2022-Aug-08

Full text of H-Statements referred to under sections 2 and 3

H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child

Key or legend to abbreviations and acronyms used in the safety data sheet

NAV - Not available

This safety data sheet complies with the requirements of: Regulation (EC) No. 1907/2006.

Additional information

None

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.