



Safety Data Sheet

according to Globally Harmonized System (GHS)

Printing date 2024-06-18

Revision: 2024-06-18

1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
- **Trade name:** Tripropylene Glycol Monomethyl Ether
- **Synonyms:**
TPGME; Methyltripropylene glycol; TPM; [2-(2-Methoxymethylethoxy)methylethoxy]-propanol; [2-(2-(Methoxypropoxy)propoxy)propanol; [1-[2-Methoxy-1-propoxy]-1-propoxy]-2-propanol;
- **CAS Number:**
25498-49-1
- **Relevant identified uses of the substance or mixture and uses advised against :**
- **Identified/Recommended uses:** Solvent
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Chang Chun Petrochemical Co. Ltd.
7th Fl., No. 301, SongJiang Rd.
Taipei City, 104070, TAIWAN
Tel: +886-2-2500-1800 Fax: +886-2-2501-8317
www.ccpgp.com
- **Further information obtainable from:** SDS-info@ccp.com.tw
- **Emergency telephone number:**
3E Global Incident Response Hotline 24h (Access Code 336088):
Americas: +1 760 476 3961
Asia-Pacific: +1 760 476 3960
Europe: +1 760 476 3962
Middle East/Africa: +1 760 476 3959
Non-Region Specific: +1 760 476 3971

2 Hazards identification

- **Classification of the substance or mixture:**
Acute Tox. 5 H303 May be harmful if swallowed.
- **Label elements:**
- **Hazard pictograms:** None (Not Required) - Not Regulated/Not Hazardous
- **Signal word:** Warning
- **Hazard statements:**
May be harmful if swallowed.
- **Precautionary statements:**
Call a POISON CENTER/doctor if you feel unwell.
- **Other hazard:** None known.

3 Composition/information on ingredients

- **Chemical characterisation:** Substances
- **CAS No. Description**
25498-49-1 Tripropyleneglycol methylether ≥97.5%

4 First aid measures

- **Description of first aid measures**
- **General information:** First aider needs to protect himself.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
Generally the product does not irritate the skin.
Rinse cautiously with water for several minutes.
If skin irritation continues, consult a doctor.

(Contd. on page 2)

GHS_E



Safety Data Sheet

according to Globally Harmonized System (GHS)

Printing date 2024-06-18

Revision: 2024-06-18

Trade name: Tripropylene Glycol Monomethyl Ether

(Contd. of page 1)

- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:**
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; call for medical help immediately.
- **Most important symptoms and effects, both acute and delayed:**
No known chronic or acute health risks.
- **Indication of any immediate medical attention and special treatment needed**
Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** No further relevant information available.
- **Special hazards arising from the substance or mixture**
Under certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:
Fume
Carbon dioxide (CO₂)
Carbon monoxide (CO)
- **Advice for firefighters**
- **Protective equipment:**
Wear protective fire fighting clothing (including fire fighting helmet, coat, trousers, boots, and gloves).
If necessary, wear fully protective suit and air respirator.
Wear self-contained respiratory protective device.
Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves).

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective clothing.
If possible, stop flow of product.
Ensure adequate ventilation
- **Environmental precautions:** No special measures required.
- **Methods and material for containment and cleaning up:**
Collect, bind, and pump off spills.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Allow to solidify. Pick up mechanically.
For large liquid spills (>1 drum), transfer by mechanical means such as vacuum truck to a salvage tank for recovery or safe disposal.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Use personal protective equipment as required.
Wear protective gloves/protective clothing/eye protection/face protection.

(Contd. on page 3)

GHS_E—



Safety Data Sheet

according to Globally Harmonized System (GHS)

Printing date 2024-06-18

Revision: 2024-06-18

Trade name: Tripropylene Glycol Monomethyl Ether

(Contd. of page 2)

- Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:** No special measures required.
- **Storage:**
- **Conditions for safe storage, including any incompatibilities**
Store in cool, dry place in tightly closed receptacles.
- **Further information about storage conditions:** None.

8 Exposure controls/personal protection

- **Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Ingredients with biological limit values:**
The product does not contain any relevant quantities of materials with biological limited values that have to be monitored.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.
Keep away from foodstuffs, beverages and feed.
Do not eat, drink, smoke or sniff while working.
Avoid contact with the eyes and skin.
Wash hands before breaks and at the end of work.
Ensure that washing facilities are available at the work place.
- **Respiratory protection:** Not necessary if room is well-ventilated.
- **Protection of hands:**



Protective gloves

The selected protective gloves have to satisfy the specifications of standard EN 374 or its equivalent.
Replace gloves immediately when torn or any change in appearance (dimension, colour, flexibility etc) is noticed.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

Plastic gloves
Rubber gloves
Nitrile rubber, NBR
Butyl rubber, BR
Ethyl vinyl alcohol laminate (EVAL)

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Safety glasses with side shields conforming to EN166, ANSI 87.1-2010, or equivalent.

(Contd. on page 4)

— GHS_E —



Safety Data Sheet

according to Globally Harmonized System (GHS)

Printing date 2024-06-18

Revision: 2024-06-18

Trade name: Tripropylene Glycol Monomethyl Ether

(Contd. of page 3)

· **Body protection:**

Protective work clothing

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form:

Liquid

Colour:

Colourless

· **Odour:**

Ether-like

· **Odour threshold:**

Not determined.

· **pH-value:**

Not determined.

· **Melting point/freezing point:**

-78 °C (Literature; closed cup)

· **Initial boiling point and boiling range:**

243 °C (Literature)

· **Flash point:**

116 °C (Literature)

· **Flammability (solid, gas):**

Not applicable - This product is a liquid.

· **Auto-ignition temperature:**

270 °C (Literature)

· **Decomposition temperature:**

Not determined.

· **Ignition temperature:**

Not determined.

· **Explosive properties:**

Product does not present an explosion hazard.

· **Explosion limits:**

Lower:

1.1 Vol %

Upper:

7 Vol %

· **Vapour pressure at 20 °C:**

0.03 hPa

· **Density:**

0.968 g/cm³

· **Relative density**

Not determined.

· **Vapour density**

Not determined.

· **Evaporation rate**

Not determined.

· **Solubility in / Miscibility with**

water:

Fully miscible.

· **Partition coefficient: n-octanol/water:**

Not determined.

· **Viscosity:**

Dynamic at 20 °C:

6.48 mPas

Kinematic:

Not determined.

Solids content:

0.0 %

10 Stability and reactivity

· **Reactivity:** When properly handled and stored, no dangerous reaction is known.

· **Chemical stability:** This product is stable under prescribed use and storage.

· **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

· **Possibility of hazardous reactions:** No dangerous reactions known.

· **Conditions to avoid:**

Strong heating.

Product can oxidize at elevated temperature.

Do not distill to dryness.

(Contd. on page 5)

GHS_E



Safety Data Sheet

according to Globally Harmonized System (GHS)

Printing date 2024-06-18

Revision: 2024-06-18

Trade name: Tripropylene Glycol Monomethyl Ether

(Contd. of page 4)

- **Incompatible materials:**
 - Strong oxidizing agents
 - Strong acids
 - Strong bases
 - **Hazardous decomposition products:**
 - Carbon monoxide (CO) and carbon dioxide (CO₂)
 - Aldehyde
 - Acids
- Decomposition products depend upon temperature, air supply and the presence of other materials.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity** May be harmful if swallowed.

- **LD/LC50 values relevant for classification:**

25498-49-1 Tripropylene glycol monomethyl ether

Oral	LD50	3,500 mg/kg (rat)
Dermal	LD50	15,440 mg/kg (rab)
Inhalative	LC0	>330 ppm (rat) (8hr)

- **Skin corrosion/irritation:**
 - Not classified based on available data.
 - Rabbit: not irritating (OECD Test Guideline 404)
- **Serious eye damage/eye irritation:**
 - Not classified based on available data.
 - Rabbit: not irritating (OECD Test Guideline N/A; EPA OPP81-4)
- **Respiratory or skin sensitization:**
 - Not classified based on available data.
 - Mice (Local Lymph Node Assay): Not sensitizing to the skin (OECD Test Guideline 429)
- **Germ Cell Mutagenicity:**
 - Not classified based on available data.
 - In-vitro genotoxicity (mammalian cells): negative (OECD 473)
 - Information based on a structurally similar material.
- **Carcinogenicity:**
 - Not classified based on available data.
 - No Adverse Effect Concentration (NOAEC): 25312 mg/m³
 - Information based on a structurally similar material.
- **Reproductive Toxicity:**
 - Not classified based on available data.
 - Did not cause birth defects in laboratory animals.
 - Does not impair fertility. Not a developmental toxicant.
 - No Adverse Effect Concentration (NOAEC): 3000 mg/m³
- **Specific Target Organ Toxicity - Single Exposure (STOT SE):** Not classified based on available data.
- **Specific Target Organ Toxicity - Repeated Exposure (STOT RE):**
 - Not classified based on available data.
- **Aspiration Hazard:** Not classified based on available data.
- **Primary irritant effect:**
- **Skin corrosion/irritation** No irritating effect.
- **Serious eye damage/irritation** No irritating effect.
- **Respiratory or skin sensitisation** No sensitising effects known.

GHS_E—

(Contd. on page 6)



Safety Data Sheet

according to Globally Harmonized System (GHS)

Printing date 2024-06-18

Revision: 2024-06-18

Trade name: Tripropylene Glycol Monomethyl Ether

(Contd. of page 5)

12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

Not classified based on available data.

Material is not classified as dangerous to aquatic organisms (LC50 / EC50 / IC50 / LL50 / EL50 >100 mg/L in most sensitive species).

25498-49-1 Tripropylene glycol monomethyl ether	
EC50	21,010 mg/kg (microorganisms) (QSAR)
EC50/48h	>10,000 mg/l (daphnia) (OECD 202)
EC50/96h	11,619 mg/l (fish) (OECD 203)

- **Persistence and degradability**

Easily biodegradable

Degradation : 66% (28, OECD 301F)

- **Bioaccumulative potential**

Bioaccumulation is not expected.

Bioconcentration Factor (BCF) = 1.162 (EPIWIN QSAR)

- **Mobility in soil**

Henry's Law Constant (H) : 0.272 Pa m³/mol @ 20°C Pa m³/mol at 20 °C

Level III Fugacity Modelling:

Air: 0.25 %

Water: 48.5 %

Soil: 51.1 %

Sediment: 0.08 %

- **Additional ecological information:**

- **General notes:**

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**

- **Recommendation**

Recover or recycle if possible.

Contact waste processors for recycling information.

After prior treatment product has to be disposed of in an incinerator for hazardous waste adhering to the regulations pertaining to the disposal of particularly hazardous waste.

Any disposal method should also comply with national, regional, provincial, and local laws.

- **Uncleaned packaging:**

- **Recommendation:**

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

Disposal must be made according to official regulations.

- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

14 Transport information

- **Dangerous Goods classification Status:** Not classified as a dangerous good with respect to transport regulations (IMDG, IATA, ADN, ADR, US DOT).

(Contd. on page 7)

—GHS_E—



Safety Data Sheet

according to Globally Harmonized System (GHS)

Printing date 2024-06-18

Revision: 2024-06-18

Trade name: Tripropylene Glycol Monomethyl Ether

(Contd. of page 6)

· UN-Number	
· ADR, IMDG, IATA	None (Not a Dangerous Good)
· UN proper shipping name	
· ADR, IMDG, IATA	None (Not a Dangerous Good)
· Transport hazard class(es)	
· ADR, ADN, IMDG, IATA	
· Class	None (Not a Dangerous Good)
· Packing group	
· ADR, IMDG, IATA	None (Not a Dangerous Good)
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Not applicable.
· UN "Model Regulation":	None (Not a Dangerous Good)

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Status of global inventories:**
All component(s) within this product is listed or exempted from the following country's chemical inventory:
USA – TSCA
Australia – AICS
Canada – DSL
China – IECSC
EU – EINECS/NLP
Japan – ENCS
Korea – KECI
New Zealand – NZIoC
Philippines – PICCS
Taiwan – TCSI
Mexico - INSQ
Thailand - TECI
Vietnam – NCI

16 Other information

- **Abbreviations and acronyms:**
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Acute Tox. 5: Acute toxicity – Category 5
- **Sources**
Most toxicological and eco-toxicological data are obtained from European Chemical Agency (ECHA)'s public dissemination website.
<https://echa.europa.eu/registration-dossier/-/registered-dossier/13199>
- **General Disclaimers:**
CCP Group recommends that all the users/customers/recipients to study this Safety Data Sheet (SDS) carefully and understand all the data or any potential hazards associated with this product. Please consult with appropriate expert if necessary. The information herein is provided in good faith and is believed to be accurate on the date of issue. No warranty, expressed or implied, is given. It is the customer's/user's responsibility to ensure that they are complying with local, regional, state, provincial, and/or national laws in using this product, as regulatory requirement may differ at each level. It is also the customer's/user's

(Contd. on page 8)



Safety Data Sheet
according to Globally Harmonized System (GHS)

Printing date 2024-06-18

Revision: 2024-06-18

Trade name: Tripropylene Glycol Monomethyl Ether

(Contd. of page 7)

responsibility to determine the necessary condition required for using this product safely, as actual operating or usage conditions are beyond CCP Group's control. CCP Group will not be responsible for any SDS obtained from elsewhere other than from CCP Group. If you are unsure whether the SDS you have is current or have obtained the SDS from another source; please contact us to obtain the latest version.

GHS_E
