

Version 1.2 Revision Date 2011-04-07

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

Product information

Trade name : Dimethyl 3,3'-Thiodipropionate

Material : 1108442, 1108434, 1108433, 1108324, 1108323, 1108082

Company : Chevron Phillips Chemical Company LP

Specialty Chemicals 10001 Six Pines Drive The Woodlands. TX 77380

Emergency telephone:

Health:

866.442.9628 (North America) 1.832.813.4984 (International)

Transport:

North America: CHEMTREC 800.424.9300 or 703.527.3887 Asia: +800 CHEMCALL (+800 2436 2255) China: 0532.8388.9090 EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Chemcare Asia: Tel: +65 6848 9048 - Mob: +65 8382 9188 - Fax: +65 6848

South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600

Responsible Department : Product Safety and Toxicology Group

E-mail address : MSDS@CPChem.com Website : www.CPChem.com

2. HAZARDS IDENTIFICATION

Emergency Overview

Warning

Physical state: Liquid Color: Yellow Odor: Mild

OSHA Hazards : Irritant

GHS-Classification

 Acute toxicity, Category 5, Oral Skin irritation, Category 2
 Eye irritation, Category 2B
 Aspiration hazard, Category 2

GHS-Labeling

Symbol(s)





Signal Word : Warning

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Hazard Statements : H303: May be harmful if swallowed.

H305: May be harmful if swallowed and enters airways.

H315: Causes skin irritation. H320: Causes eye irritation.

Precautionary Statements : **Prevention**:

P264 Wash face, hands and any exposed skin thoroughly

after handling.

P280 Wear protective gloves.

Response:

P312 Call a POISON CENTER or doctor/ physician if you

feel unwell.

P331 Do NOT induce vomiting.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

Carcinogenicity:

IARC No ingredient of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

NTP No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

ACGIH No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential carcinogen

by ACGIH.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : 3,3-thiobis (methyl propionate)

Molecular formula : C8H14O4S

Component	CAS-No.	Weight %
Dimethyl Thiodipropionate	4131-74-2	99.00 - 100.00

4. FIRST AID MEASURES

General advice : Move out of dangerous area. Show this material safety data

sheet to the doctor in attendance. Symptoms of poisoning may only appear several hours later. Do not leave the victim

unattended.

If inhaled : Move to fresh air. If unconscious place in recovery position

and seek medical advice. If symptoms persist, call a physician.

In case of skin contact : If skin irritation persists, call a physician. If on skin, rinse well

with water. If on clothes, remove clothes.

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In case of eye contact : Immediately flush eye(s) with plenty of water. Remove contact

lenses. Protect unharmed eye. Keep eye wide open while

rinsing. If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear. Do NOT induce vomiting. Do not

give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Take victim immediately to

hospital.

5. FIRE-FIGHTING MEASURES

Flash point : $> 93 \,^{\circ}\text{C} \, (> 199 \,^{\circ}\text{F})$

estimated

Autoignition temperature : No data available

Unsuitable extinguishing

media

: High volume water jet.

Special protective

equipment for fire-fighters

: Wear self contained breathing apparatus for fire fighting if

necessary.

Further information : Standard procedure for chemical fires. Use extinguishing

measures that are appropriate to local circumstances and the

surrounding environment.

Fire and explosion

protection

: Normal measures for preventive fire protection.

Hazardous decomposition

products

: Carbon oxides. Sulfur oxides.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Use personal protective equipment. Ensure adequate

ventilation.

Environmental precautions : Prevent product from entering drains. Prevent further leakage

or spillage if safe to do so. If the product contaminates rivers

and lakes or drains inform respective authorities.

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid

binder, universal binder, sawdust). Keep in suitable, closed

containers for disposal.

7. HANDLING AND STORAGE

Handling

Advice on safe handling : Do not breathe vapors/dust. Avoid contact with skin and eyes.

For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose

of rinse water in accordance with local and national

regulations.

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Advice on protection against fire and explosion

: Normal measures for preventive fire protection.

Storage

Requirements for storage areas and containers

: Keep container tightly closed in a dry and well-ventilated place. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

Respiratory protection : Use a positive pressure, air-supplying respirator if there is

potential for uncontrolled release, exposure levels are not known, or other circumstances where air-purifying respirators

may not provide adequate protection.

Hand protection : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water. Tightly fitting safety goggles.

Skin and body protection : Impervious clothing. Choose body protection according to the

amount and concentration of the dangerous substance at the

work place.

Hygiene measures : When using do not eat or drink. When using do not smoke.

Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance

Physical state : Liquid Color : Yellow Odor : Mild

Safety data

Flash point : $> 93 \, ^{\circ}\text{C} \, (> 199 \, ^{\circ}\text{F})$

estimated

Lower explosion limit : No data available

Upper explosion limit : No data available

Oxidizing properties : No

Autoignition temperature : No data available

Molecular formula : C8H14O4S

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Molecular Weight : 206.28 g/mol

pH : Not applicable

Pour point : No data available

Boiling point/boiling range : > 93 °C (> 199 °F)

Vapor pressure : No data available

Relative density : > 1

Water solubility : Insoluble

Partition coefficient: n-

octanol/water

: No data available

Viscosity, kinematic : No data available

Relative vapor density : No data available

Evaporation rate : < 1

10. STABILITY AND REACTIVITY

Possibility of hazardous reactions

Materials to avoid : May react with oxygen and strong oxidizing agents, such as

chlorates, nitrates, peroxides, etc.

Other data : This material is considered stable under normal ambient and

anticipated storage and handling conditions of temperature

and pressure.

No decomposition if stored and applied as directed.

11. TOXICOLOGICAL INFORMATION

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Acute oral toxicity : LD50: PNT

Acute inhalation toxicity

Dimethyl Thiodipropionate : LC50: not known

Acute dermal toxicity

Dimethyl Thiodipropionate : LD50: not known

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Skin irritation : May cause skin irritation in susceptible persons.

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Eye irritation : Vapors may cause irritation to the eyes, respiratory system

and the skin.

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Aspiration toxicity : No aspiration toxicity classification.

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Further information : Solvents may degrease the skin.

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

Biodegradability : This material is expected to be readily biodegradable.

Further information on ecology

Additional ecological : This material is not expected to be harmful to aquatic

information organisms.

13. DISPOSAL CONSIDERATIONS

The information in this MSDS pertains only to the product as shipped.

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

Product : Do not dispose of waste into sewer. Do not contaminate

ponds, waterways or ditches with chemical or used container.

Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents. Dispose of as unused product.

Do not re-use empty containers.

14. TRANSPORT INFORMATION

The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments in non-bulk packages (see regulatory definition).

Consult the appropriate domestic or international mode-specific and quantity-specific Dangerous Goods Regulations for additional shipping description requirements (e.g., technical name or names, etc.) Therefore, the information shown here, may not always agree with the bill of lading shipping description for the material. Flashpoints for the material may vary slightly between the MSDS and the bill of lading.

USDOT

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

IMO / IMDG

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IATA

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

ADR

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

RID

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

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

15. REGULATORY INFORMATION

National legislation

Canadian PBT Chemicals

SARA 311/312 Hazards : Acute Health Hazard

EPCRA - EMERGENCY PLANNING COMMUNITY RIGHT - TO - KNOW

SARA 302 Reportable

Quantity

SARA 313 Ingredients

: SARA 302: No chemicals in this material are subject to the

reporting requirements of SARA Title III, Section 302. : SARA 313: This material does not contain any chemical

components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA

Title III, Section 313.

Clean Air Act

Ozone-Depletion

Potential

: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act

Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

California Prop. 65

Ingredients

: This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive

defects.

Notification status

Europe REACH United States of America US.TSCA

Canada DSL Australia AICS

: On the inventory, or in compliance with the inventory : On the inventory, or in compliance with the inventory : On the inventory, or in compliance with the inventory

: Not in compliance with the inventory

New Zealand NZIoC : Not in compliance with the inventory

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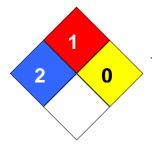
Japan ENCS : On the inventory, or in compliance with the inventory

Korea KECI : Not in compliance with the inventory Philippines PICCS : Not in compliance with the inventory China IECSC : Not in compliance with the inventory

16. OTHER INFORMATION

NFPA Classification : Health Hazard: 2

Fire Hazard: 1
Reactivity Hazard: 0



Further information

Legacy MSDS Number : 644740

Significant changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information in this MSDS pertains only to the product as shipped.

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

Key or legend to abbreviations and acronyms used in the safety data sheet				
ACGIH	American Conference of Government	LOAEL	Lowest Observed Adverse Effect Level	
	Industrial Hygienists			
AICS	Australia, Inventory of Chemical	NFPA	National Fire Protection Agency	
	Substances		-	
DSL	Canada, Domestic Substances List	NIOSH	National Institute for Occupational Safety	
			& Health	
NDSL	Canada, Non-Domestic Substances List	NTP	National Toxicology Program	
CNS	Central Nervous System	NZIoC	New Zealand Inventory of Chemicals	
CAS	Chemical Abstract Service	NOAEL	No Observable Adverse Effect Level	
EC50	Effective Concentration	NOEC	No Observed Effect Concentration	
EC50	Effective Concentration 50%	OSHA	Occupational Safety & Health	
			Administration	
EINECS	European Inventory of Existing Chemical	PEL	Permissible Exposure Limit	
	Substances			
MAK	Germany Maximum Concentration	PICCS	Philipines Inventory of Commercial	
	Values		Chemical Substances	
GHS	Globally Harmonized System	PRNT	Presumed Not Toxic	
>=	Greater Than or Equal To	RCRA	Resource Conservation Recovery Act	
IC50	Inhibition Concentration 50%	STEL	Short-term Exposure Limit	
IARC	International Agency for Research on	SARA	Superfund Amendments and	
	Cancer		Reauthorization Act.	
IECSC	Inventory of Existing Chemical	TLV	Threshold Limit Value	
	Substances in China			
ENCS	Japan, Inventory of Existing and New	TWA	Time Weighted Average	

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	Chemical Substances		
KECI	Korea, Existing Chemical Inventory	TSCA	Toxic Substance Control Act
<=	Less Than or Equal To	UVCB	Unknown or Variable Compositon,
			Complex Reaction Products, and
			Biological Materials
LC50	Lethal Concentration 50%	WHMIS	Workplace Hazardous Materials
			Information System
LD50	Lethal Dose 50%		

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