

Version 1.7 Revision Date 2017-03-06

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

**Product information** 

Product Name : Synfluid® Dimer C12 Material : 1079709, 1079650

Use : Synthetic Lubricants

Company : Chevron Phillips Chemical Company LP

10001 Six Pines Drive The Woodlands, TX 77380

**Emergency telephone:** 

Health:

866.442.9628 (North America) 1.832.813.4984 (International)

Transport:

CHEMTREC 800.424.9300 or 703.527.3887(int'l)

Asia: +800 CHEMCALL (+800 2436 2255) China:+86-21-22157316 EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Mexico CHEMTREC 01-800-681-9531 (24 hours)

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 : SDS@CPChem.com Website : www.CPChem.com

#### **SECTION 2: Hazards identification**

#### Classification of the substance or mixture

This product has been classified in accordance with the hazard communication standard 29 CFR 1910.1200; the SDS and labels contain all the information as required by the standard.

Classification

: Acute toxicity, Category 4, Inhalation Aspiration hazard, Category 1

Labeling

Symbol(s) :





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Signal Word : Danger

Hazard Statements : H304: May be fatal if swallowed and enters airways.

H332: Harmful if inhaled.

Precautionary Statements : Prevention:

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.P271 Use only outdoors or in a well-ventilated area.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON

CENTER/doctor.

P304 + P340 + P312 IF INHALED: Remove person to fresh

air and keep comfortable for breathing. Call a POISON

CENTER/doctor 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.

#### **SECTION 3: Composition/information on ingredients**

Synonyms : PAO, Polyalphaolefin

Molecular formula : (C12H24)2

Component	CAS-No.	Weight %
1-Dodecene, Dimer Unhydrogenated	62132-67-6	100

#### **SECTION 4: First aid measures**

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

sheet to the doctor in attendance. Material may produce a serious, potentially fatal pneumonia if swallowed or vomited.

If inhaled : Consult a physician after significant exposure. If unconscious,

place in recovery position and seek medical advice.

In case of eye contact : Flush eyes with water as a precaution. 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. Never give anything by mouth to

an unconscious person. If symptoms persist, call a physician.

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Take victim immediately to hospital.

Keep respiratory tract clear. Do NOT induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.

#### **SECTION 5: Firefighting measures**

Flash point : 186 °C (367 °F)

Autoignition temperature : 341 °C (646 °F)

Unsuitable extinguishing

media

: High volume water jet.

Special protective

equipment for fire-fighters

: Wear self-contained breathing apparatus for firefighting 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.

#### **SECTION 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.

#### **SECTION 7: Handling and storage**

#### Handling

Advice on safe handling : Avoid formation of aerosol. Do not breathe vapors/dust. For

personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Dispose

of rinse water in accordance with local and national

regulations.

Advice on protection against fire and explosion

: Normal measures for preventive fire protection.

#### Storage

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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.

#### SECTION 8: Exposure controls/personal protection

#### **Engineering measures**

Adequate ventilation to control airborned concentrations below the exposure guidelines/limits. Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

#### Personal protective equipment

Respiratory protection : Wear a supplied-air NIOSH approved respirator unless

> ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure. Wear a NIOSH approved respirator that provides protection when working with this material if exposure to harmful levels of airborne material may occur, such as:. Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, exposure

levels are not known, or other circumstances where airpurifying respirators may not provide adequate protection.

Hand protection The suitability for a specific workplace should be discussed

> with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

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

Skin and body protection : Choose body protection in relation to its type, to the

> concentration and amount of dangerous substances, and to the specific work-place. Wear as appropriate:. Protective suit.

Safety shoes.

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

Wash hands before breaks and at the end of workday.

#### **SECTION 9: Physical and chemical properties**

#### Information on basic physical and chemical properties

**Appearance** 

Form : Liquid Physical state : Liquid

Color : Clear, colorless

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Safety data

Flash point : 186 °C (367 °F)

Lower explosion limit : Not applicable

Upper explosion limit : Not applicable

Oxidizing properties : no

Autoignition temperature : 341 °C (646 °F)

Molecular formula : (C12H24)2

Molecular weight : 336.72 g/mol

pH : Not applicable

Melting point/range :  $< -50 \, ^{\circ}\text{C} \, (< -58 \, ^{\circ}\text{F})$ 

Boiling point/boiling range :  $> 250 \, ^{\circ}\text{C} \, (> 482 \, ^{\circ}\text{F})$ 

Vapor pressure : < 0.02 PSI

at 37.8 °C (100.0 °F)

Relative density : 0.8074

at 15.6 °C (60.1 °F)

Density : 807.7 g/l

Water solubility : Soluble in hydrocarbon solvents; insoluble in water.

Partition coefficient: n-

octanol/water

: No data available

Viscosity, kinematic : 7.5 cSt

at 40 °C (104 °F)

Relative vapor density : 7

(Air = 1.0)

Evaporation rate : No data available

#### **SECTION 10: Stability and reactivity**

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : 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.

#### Possibility of hazardous reactions

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Conditions to avoid : No data available.

Other data : No decomposition if stored and applied as directed.

### **SECTION 11: Toxicological information**

## **Acute oral toxicity**

1-Dodecene, Dimer Unhydrogenated

: LD50 Oral: > 5,000 mg/kg

Species: Rat

Information given is based on data obtained from similar

substances.

#### Acute inhalation toxicity

1-Dodecene, Dimer Unhydrogenated

: LC50: 1.71 mg/l Exposure time: 4 h Species: Rat

Sex: female

Test atmosphere: dust/mist

Harmful if inhaled.

Information given is based on data obtained from similar

substances.

LC50: > 5.06 mg/l Exposure time: 4 h Species: Rat Sex: males

Test atmosphere: dust/mist

Information given is based on data obtained from similar

substances.

#### **Acute dermal toxicity**

1-Dodecene, Dimer Unhydrogenated

: LD50 Dermal: > 2,000 mg/kg

Species: Rat

#### Skin irritation

1-Dodecene, Dimer Unhydrogenated : No skin irritation. Information given is based on data obtained

from similar substances.

#### Eye irritation

1-Dodecene, Dimer Unhydrogenated

: No eye irritation. Information given is based on data obtained

from similar substances.

#### Sensitization

1-Dodecene, Dimer Unhydrogenated

: Did not cause sensitization on laboratory animals. Information given is based on data obtained from similar substances.

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#### **Aspiration toxicity**

1-Dodecene, Dimer Unhydrogenated

: May be fatal if swallowed and enters airways.

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**Further information** : Solvents may degrease the skin.

#### **SECTION 12: Ecological information**

Biodegradability

1-Dodecene, Dimer Unhydrogenated

: This material is not expected to be readily biodegradable.

Expected to be inherently biodegradable.

#### **Ecotoxicology Assessment**

Results of PBT assessment

1-Dodecene, Dimer Unhydrogenated

: This substance is not considered to be persistent, bioaccumulating and toxic (PBT)., This substance is not considered to be very persistent and very bioaccumulating

(vPvB).

Additional ecological

information

: This material is not expected to be harmful to aquatic

organisms.

#### **SECTION 13: Disposal considerations**

The information in this SDS 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.

#### **SECTION 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 SDS and the bill of lading.

#### **US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)**

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

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#### IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

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

#### IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

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

#### ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))

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

# RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))

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

# ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)

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

#### **SECTION 15: Regulatory information**

**National legislation** 

SARA 311/312 Hazards : Acute Health Hazard

#### **EPCRA - EMERGENCY PLANNING COMMUNITY RIGHT - TO - KNOW**

CERCLA Reportable

Quantity

: This material does not contain any components with a CERCLA

RQ.

SARA 302 Reportable

Quantity

: This material does not contain any components with a SARA

302 RQ.

SARA 302 Threshold

Planning Quantity

: No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 304 Reportable

Quantity

: This material does not contain any components with a section

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304 EHS RQ.

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SARA 313 Ingredients : 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

Potential

Ozone-Depletion : 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 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

#### **US State Regulations**

Pennsylvania Right To Know

: No components are subject to the Pennsylvania Right to Know

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 Not in compliance with the inventory

United States of America (USA) On the inventory, or in compliance with the inventory

**TSCA** 

Canada NDSL On the inventory, or in compliance with the inventory

Australia AICS Not in compliance with the inventory New Zealand NZIoC Not in compliance with the inventory

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

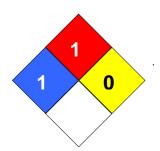
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#### **SECTION 16: Other information**

NFPA Classification : Health Hazard: 1

Fire Hazard: 1 Reactivity Hazard: 0



#### **Further information**

Legacy SDS Number : 5836

NSF H1, HX-1 Registered, meets USDA 1998 H1 Guidelines

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

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

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.

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Chemical Substances Commercial Co	ble Exposure Limit
	es Inventory of
MAK Germany Maximum Concentration PRNT Presume	cial Chemical Substances
	d Not Toxic
Values	
GHS Globally Harmonized System RCRA Resource Act	e Conservation Recovery
>= Greater Than or Equal To STEL Short-ter	m Exposure Limit
IC50 Inhibition Concentration 50% SARA Superfun	d Amendments and
Reauthor	rization Act.
IARC International Agency for Research TLV Threshol on Cancer	d Limit Value
IECSC Inventory of Existing Chemical TWA Time We Substances in China	

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

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