

Version 1.7 Revision Date 2017-05-16

according to GB/T 16483 and GB/T 17519

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

Product information

Product Name : Diesel Reference Fuel T-30

Material : 1024272, 1108916, 1024276, 1024273, 1024274, 1024275,

1032194

Company : Chevron Phillips Chemical Company LP

Specialty Chemicals 10001 Six Pines Drive The Woodlands, TX 77380

Local : Chevron Phillips Chemicals (Shanghai) Corporation

Room 1810-1812, Shanghai Mart,

2299 Yan An Road (W), Shanghai, PRC 200336

local emergency contact number: 0532-83889090

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: CHEMWATCH (+612 9186 1132)

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

GHS Classification and Labeling: Follow GB 13690, GB 15258 and GB 30000.2 to GB 30000.29 (GHS 2011)

Emergency Overview

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Danger

Form: Liquid Physical state: Liquid Color: Pale yellow to brown (if undyed), red to purple

(dyed) Odor: Mild

Hazards : Flammable liquid and vapor. Harmful if inhaled. Causes skin

irritation. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways. Toxic to aquatic life. Toxic to

aquatic life with long lasting effects.

Classification

: Flammable liquids, Category 3
Acute toxicity, Category 4, Inhalation
Skin corrosion/irritation, Category 2

Carcinogenicity, Category 2

Specific target organ systemic toxicity - repeated exposure,

Category 2, Liver, Bone, thymus Aspiration hazard, Category 1 Acute aquatic toxicity, Category 2 Chronic aquatic toxicity, Category 2

Labeling

Symbol(s)









Signal Word : Danger

Hazard Statements : H226: Flammable liquid and vapor.

H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation. H332: Harmful if inhaled.

H351: Suspected of causing cancer.

H373: May cause damage to organs (Liver, Blood) through

prolonged or repeated exposure.

H411: Toxic to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:**

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been

read and understood.

P210: Keep away from heat/sparks/open flames/hot surfaces.

No smoking.

P233: Keep container tightly closed.

P240: Ground/bond container and receiving equipment.
P241: Use explosion-proof electrical/ ventilating/ lighting/

equipment.

P242: Use only non-sparking tools.

P243: Take precautionary measures against static discharge.

P260: Do not breathe dust/fume/gas/mist/vapor/spray.

P264: Wash skin thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.

P273: Avoid release to the environment.

P280: Wear protective gloves/ protective clothing/ eye

protection/ face protection.

Response:

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P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower.

P304 + P340 + P312: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON

CENTER/doctor if you feel unwell.

P308 + P313: IF exposed or concerned: Get medical advice/ attention.

P331: Do NOT induce vomiting.

P332 + P313: If skin irritation occurs: Get medical advice/

attention.

P362 + P364: Take off contaminated clothing and wash it

before reuse.

P370 + P378: In case of fire: Use dry sand, dry chemical or

alcohol-resistant foam to extinguish.

P391: Collect spillage.

Storage:

P403 + P235: Store in a well-ventilated place. Keep cool.

P405: Store locked up.

Disposal:

P501: Dispose of contents/ container to an approved waste

disposal plant.

SECTION 3: Composition/information on ingredients

Synonyms : Diesel Reference Fuel T

Molecular formula : Mixture

Chemical name	CAS-No. / EINECS-No.	Concentration [wt%]
Diesel fuel	68476-34-6	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 skin contact : If skin irritation persists, call a physician. If on skin, rinse well

with water. If on clothes, remove clothes.

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. Do NOT induce vomiting. Do not

give milk or alcoholic beverages. Never give anything by

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> mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.

SECTION 5: Firefighting measures

Flash point : 86.6 °C (187.9 °F)

Autoignition temperature : No data available

Suitable extinguishing

media

: Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical.

Unsuitable extinguishing

media

: High volume water jet.

Specific hazards during fire

fighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

Special protective

equipment for fire-fighters

: Wear self-contained breathing apparatus for firefighting if

necessary.

Further information : Collect contaminated fire extinguishing water separately. This

> must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case

of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed

containers.

Fire and explosion

protection

: Do not spray on an open flame or any other incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Keep away from open flames, hot surfaces and sources of

ignition.

Hazardous decomposition

products

: Hydrocarbons. Carbon oxides.

SECTION 6: Accidental release measures

Personal precautions Use personal protective equipment. Ensure adequate

> ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low

areas.

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 Contain spillage, and then collect with non-combustible

> absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to

local / national regulations (see section 13).

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SECTION 7: Handling and storage

Handling

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

exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with

local and national regulations.

Advice on protection against fire and explosion

Do not spray on an open flame or any other incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Keep away from open flames, hot surfaces and sources of ignition.

Storage

Requirements for storage areas and containers

No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

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:. Air-Purifying Respirator for Organic Vapors. 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. Please observe

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

Skin and body protection : Choose body protection according to the amount and

concentration of the dangerous substance at the work place. Wear as appropriate: Flame retardant protective clothing.

Footwear protecting against chemicals.

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 at 20 °C (68 °F)

(101.30 kPa)

Color : Pale yellow to brown (if undyed), red to purple (dyed)

Odor : Mild

Safety data

Flash point : 86.6 °C (187.9 °F)

Lower explosion limit : No data available

Upper explosion limit : No data available

Oxidizing properties : No

Autoignition temperature : No data available

Thermal decomposition : No data available

Molecular formula : Mixture

Molecular weight : Not applicable

pH : Not applicable

Pour point : $-6 \,^{\circ}\text{C} \, (21 \,^{\circ}\text{F})$

Method: ASTM D97

Boiling point/boiling range : 208 - 347 °C (406 - 657 °F)

Method: ASTM D 86

Vapor pressure : 0.10 kPa

at 40 °C (104 °F)

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Relative density : 0.786

at 21 °C (70 °F), ASTM D 1298

Density : 0.7864 g/cm3

Bulk density : 6.56 L/G

Water solubility : Negligible

Partition coefficient: n-

octanol/water

Viscosity, kinematic : 2.4 cSt

at 40 °C (104 °F)

: No data available

Relative vapor density : No data available

Evaporation rate : No data available

Percent volatile : > 99 %

SECTION 10: Stability and reactivity

Chemical stability : This material is considered stable under normal ambient and

anticipated storage and handling conditions of temperature

and pressure.

Possibility of hazardous reactions

Conditions to avoid : Heat, flames and sparks.

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

chlorates, nitrates, peroxides, etc.

Thermal decomposition : No data available

Hazardous decomposition

products

: Hydrocarbons

Carbon oxides

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

SECTION 11: Toxicological information

Acute oral toxicity

Diesel fuel : LD50: > 5,000 mg/kg

Species: Rat

Sex: male and female

Method: OECD Test Guideline 401

Acute inhalation toxicity

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Diesel fuel : LC50: 4.1 mg/l

Exposure time: 4 h
Species: Rat
Sex: male and female
Test atmosphere: dust/mist
Method: OECD Test Guideline 403

Test substance: yes

Acute dermal toxicity

Diesel fuel : LD50 Dermal: > 4,300 mg/kg

Species: Rabbit Sex: male and female Test substance: yes

Skin irritation

Diesel fuel : Irritating to skin.

Eye irritation

Diesel fuel : No eye irritation

Sensitization

Diesel fuel : Did not cause sensitization on laboratory animals.

Repeated dose toxicity

Diesel fuel : Species: Rat, Male and female

Sex: Male and female Application Route: Dermal Dose: 0, 30, 125, 500 mg/kg Exposure time: 13 wks

Number of exposures: daily, 5 days/week

NOEL: 30 mg/kg

Method: OECD Guideline 411

Target Organs: Thymus, Liver, Bone marrow

Information given is based on data obtained from similar

8/13

substances.

Species: Rat, Male and female

Sex: Male and female

Application Route: inhalation (dust/mist/fume)

Dose: 0, 0.35, 0.88, 1.71 mg/l Exposure time: 13 wks

Number of exposures: Twice/wk

NOEL: > 1.71 mg/l

Method: OECD Guideline 413

Carcinogenicity

Diesel fuel : Species: Mouse

Sex: male Dose: 0, 25 ul

Exposure time: lifetime

Number of exposures: 3 times/wk

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Remarks: Moderate dermal carcinogen

Developmental Toxicity

Diesel fuel : Species: Rat

Application Route: Inhalation Dose: 0, 86.9, 408.8 ppm Number of exposures: 6 h/d Test period: GD 6-15

Method: OECD Guideline 414 NOAEL Teratogenicity: 408.8 ppm NOAEL Maternal: 408.8 ppm

Information given is based on data obtained from similar

substances.

Species: Rat

Application Route: Dermal Dose: 30, 125, 500, 1000 mg/kg

Exposure time: daily Test period: GD 0-20

Method: OECD Guideline 414 NOAEL Teratogenicity: 125 mg/kg

Information given is based on data obtained from similar

substances.

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Aspiration toxicity : May be fatal if swallowed and enters airways.

CMR effects

Diesel fuel : Carcinogenicity: Limited evidence of carcinogenicity in animal

studies

Teratogenicity: Animal testing did not show any effects on

fetal development.

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Further information : Solvents may degrease the skin.

SECTION 12: Ecological information

Toxicity to fish

Diesel fuel : LL50: 3.2 mg/l

Exposure time: 96 h

Species: Menidia beryllina (Silverside) semi-static test Method: EPA/600/4-90/027

Toxicity to daphnia and other aquatic invertebrates

Diesel fuel : EC50: 68 mg/l

Exposure time: 48 h

Species: Daphnia magna (Water flea) Method: OECD Test Guideline 202

Toxicity to algae

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Diesel fuel : EbC50: 10 mg/l

Exposure time: 72 h

Species: Raphidocellus subcapitata (algae)

static test Analytical monitoring: no Method: OECD Test Guideline 201

Biodegradability

Diesel fuel : aerobic

Result: Not readily biodegradable.

57.5 %

Testing period: 28 d

Method: OECD Test Guideline 301F

Ecotoxicology Assessment

Acute aquatic toxicity

Diesel fuel : Toxic to aquatic life.

Chronic aquatic toxicity

Diesel fuel : Toxic to aquatic life with long lasting effects.

Results of PBT assessment

Diesel fuel : Non-classified PBT substance, Non-classified vPvB substance

Additional ecological

information

: Toxic to aquatic life with long lasting effects.

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 : The product should not be allowed to enter drains, water

courses or the soil. 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. Do not burn, or use a cutting

torch on, the empty drum.

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

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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)

UN1202, DIESEL FUEL, COMBUSTIBLE LIQUID, III

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (DIESEL FUEL), 9, III, (86.6 °C), MARINE POLLUTANT, (DIESEL FUEL)

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (DIESEL FUEL), 9. III

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

UN1202, DIESEL FUEL, 3, III, (D/E), ENVIRONMENTALLY HAZARDOUS, (DIESEL FUEL)

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

UN1202, DIESEL FUEL, 3, III, ENVIRONMENTALLY HAZARDOUS, (DIESEL FUEL)

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

UN1202, DIESEL FUEL, 3, III, ENVIRONMENTALLY HAZARDOUS, (DIESEL FUEL)

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

SECTION 15: Regulatory information

Classification and Labeling of

Commonly Used Dangerous

Chemical Substances

: Primary label: Combustible Liquid.

Notification status

Europe REACH : This mixture contains only ingredients which have been

registered according to Regulation (EU) No. 1907/2006

(REACH).

United States of America (USA)

TSCA

: On TSCA Inventory

Canada DSL : All components of this product are on the Canadian

DSL

Australia AICS : On the inventory, or in compliance with the inventory
New Zealand NZIoC : On the inventory, or in compliance with the inventory
Japan ENCS : On the inventory, or in compliance with the inventory

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Korea KECI : On the inventory, or in compliance with the inventory Philippines PICCS : On the inventory, or in compliance with the inventory China IECSC : On the inventory, or in compliance with the inventory

Other regulations : Law on Prevention and Control of Environment

Pollution by Solid Waste, Regulation on the Safety Management of Hazardous Chemicals, Provisions on the Safe Use of Chemicals at Workplace, GB13690:

General rule for classification and hazard

communication of chemicals, Law on the Prevention and Control of Occupational Diseases, Fire Protection

Law

SECTION 16: Other information

Further information

Legacy SDS Number : CPC00523

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.

Key or legend to abbreviations and acronyms used in the safety data sheet				
ACGIH	American Conference of	LD50	Lethal Dose 50%	
	Government Industrial Hygienists			
AICS	Australia, Inventory of Chemical	LOAEL	Lowest Observed Adverse Effect	
	Substances		Level	
DSL	Canada, Domestic Substances	NFPA	National Fire Protection Agency	
	List			
NDSL	Canada, Non-Domestic	NIOSH	National Institute for Occupational	
	Substances List		Safety & Health	
CNS	Central Nervous System	NTP	National Toxicology Program	
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of	
			Chemicals	
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect	
			Level	
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration	
EGEST	EOSCA Generic Exposure	OSHA	Occupational Safety & Health	
	Scenario Tool		Administration	
EOSCA	European Oilfield Specialty	PEL	Permissible Exposure Limit	
	Chemicals Association			
EINECS	European Inventory of Existing	PICCS	Philippines Inventory of	
	Chemical Substances		Commercial Chemical Substances	
MAK	Germany Maximum Concentration	PRNT	Presumed Not Toxic	
	Values			
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery	
			Act	
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit	
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and	
			Reauthorization Act.	
IARC	International Agency for Research	TLV	Threshold Limit Value	
	on Cancer			

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IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
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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