

Version 6.8 Revision Date 2022-12-08

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

Product information

Product Name : TrusTec™ Diesel Reference Fuel U-34

Material : 1108915, 1024281, 1024280, 1032195, 1024277, 1024279,

1024278

Use : Reference Fuel

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:

CHEMTREC 800.424.9300 or 703.527.3887(int'l)

Asia: CHEMWATCH (+612 9186 1132) China: 0532 8388 9090

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

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

Argentina: +(54)-1159839431

EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Austria: VIZ +43 1 406 43 43 (24 hours/day, 7 days/week) Belgium: 070 245 245 (24 hours/day, 7 days/week)

Bulgaria: +359 2 9154 233

Croatia: +3851 2348 342 (24 hours/day, 7 days/week)

Cyprus: 1401

Czech Republic: Toxicological Information Center +420 224 919 293, +420 224 915 402

Denmark: Danish Poison Center (Giftlinjen): +45 8212 1212 Estonia: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Finland: 0800 147 111 09 471 977 (24 hours/day)

France: ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week)

Germany: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Greece: (0030) 2107793777 (24 hours/day, 7 days/week) Hungary: +36-80-201-199 (24 hours/day, 7 days/week)

Iceland: 543 2222 (24 hours/day, 7 days/week)

Ireland: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Italy: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

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Latvia: State Fire and Rescue Service, phone number: 112; Toxicology and Sepsis Clinic

Poisoning and Drug Information Center, Hipokrāta 2, Riga, Latvia, LV-1038, phone number +371

67042473. (24 hours.)

Liechtenstein: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Lithuania: +370 (85) 2362052

Luxembourg: (+352) 8002 5500 (24 hours/day, 7 days/week)

Malta: +356 2395 2000

The Netherlands: NVIC: +31 (0)88 755 8000 Norway: 22 59 13 00 (24 hours/day, 7 days/week)

Poland: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Portugal: CIAV phone number: +351 800 250 250

Romania: +40213183606 Slovakia: +421 2 5477 4166 Slovenia: Phone number: 112

Spain: National Emergency Telephone Number of Spanish Poison Centre: +34 91 562 04 20 (24

hours/day, 7 days/week)

Sweden: 112 – ask for Poisons Information

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

Flammable liquids, Category 3 Skin irritation, Category 2 Carcinogenicity, Category 1B

Specific target organ toxicity - repeated exposure, Category 2,

Blood, Liver, thymus gland Aspiration hazard, Category 1

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. H350: May cause cancer.

H373: May cause damage to organs (Blood, Liver, thymus

gland) through prolonged or repeated exposure.

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

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surfaces. No smoking.

P233 Keep container tightly closed.

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

Use only non-sparking tools. P242

Take precautionary measures against static discharge. P243 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. P260

P264 Wash skin thoroughly after handling.

Wear protective gloves/ protective clothing/ eye P280 protection/ face protection.

Response:

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.

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.

Take off contaminated clothing and wash before reuse. P362 P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

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.

Carcinogenicity:

IARC Group 2A: Probably carcinogenic to humans

> Polynuclear Aromatics 130498-29-2 Group 2B: Possibly carcinogenic to humans Light Cycle Oil 64741-59-9

Naphthalene 91-20-3

NTP Known to be human carcinogen

> Light Cycle Oil 64741-59-9

Reasonably anticipated to be a human carcinogen

Naphthalene 91-20-3 Polynuclear Aromatics 130498-29-2

SECTION 3: Composition/information on ingredients

Synonyms Diesel Reference Fuel U

Molecular formula Mixture

Component	CAS-No.	Weight %
Light Cycle Oil	64741-59-9	60 - 70

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C12-C14 Isoalkanes	68551-19-9	30 - 40
Naphthalene	91-20-3	0 - 3.5
Polynuclear Aromatics	130498-29-2	0 - 0.7

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 : 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.

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.

Take victim immediately to hospital.

SECTION 5: Firefighting measures

Flash point : 46.33°C (115.39°F)

Method: Tag closed cup

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 a naked flame or any 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.

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Hazardous decomposition

products

: 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).

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 a naked flame or any 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.

Use : Reference Fuel

SECTION 8: Exposure controls/personal protection

Ingredients with workplace control parameters

Chevron Phillips Chemical Company LP

Components	Basis	Value	Control parameters	Note

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C12-C14 Isoalkanes	Manufacturer	TWA	1,200 mg/m3	RCP,
RCP Reciprocal Calculation Proc				

US

Components	Basis	Value	Control parameters	Note
Naphthalene	ACGIH	TWA	10 ppm,	A3, Skin,
	ACGIH	STEL	15 ppm,	hematologic eff, URT irr, eye irr, eye dam, (), A4, Skin,
	OSHA Z-1	TWA	10 ppm, 50 mg/m3	
	OSHA Z-1-A	TWA	10 ppm, 50 mg/m3	
	OSHA Z-1-A	STEL	15 ppm, 75 mg/m3	

- () Adopted values or notations enclosed are those for which changes are proposed in the NIC
- A3 Confirmed animal carcinogen with unknown relevance to humans
- A4 Not classifiable as a human carcinogen

eye dam Eye damage eye irr Eye irritation

hematologic eff Hematologic effects

Skin Danger of cutaneous absorption URT irr Upper Respiratory Tract irritation

Immediately Dangerous to Life or Health Concentrations (IDLH)

Substance name	CAS-No.	Control parameters	Update
Naphthalene	91-20-3	Immediately Dangerous to Life or Health Concentration Value 250 parts per million	1995-03-01

Biological exposure indices

US

Substance name	CAS-No.	Control parameters	Sampling time	Update
Polynuclear Aromatics	130498-29-2	1-Hydroxypyrene: 2.5 µg/l Adjusted for the Pyrene to Benzo(a)pyrene ratio of the PAH mixture to which workers are exposed (Urine) Background () With hydrolyses ()	End of shift at end of workweek	2018-03-20
		3-hydroxybenzo(a)pyrene: Nonquantitative (Urine) With hydrolyses ()	End of shift at end of workweek	2018-03-20

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 : If v

: If ventilation or other engineering controls are not adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure, a supplied-air NIOSH approved respirator may be appropriate. If exposure to harmful levels of airborne material may occur, a NIOSH approved respirator that provides protection may be appropriate, such as:. Air-Purifying Respirator for Organic Vapors. Full-Face Air-Purifying Respirator for Organic Vapors, Dusts and Mists. A positive pressure, air-supplying respirator may be appropriate if there is potential for uncontrolled release, aerosolization, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection.

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

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:. Flame retardant antistatic protective clothing. Workers should wear antistatic

footwear.

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

Physical state : liquid Color : Yellow Odor : Mild

Safety data

Flash point : 46.33°C (115.39°F)

Method: Tag closed cup

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 : No data available

Boiling point/boiling range : 173-313°C (343-595°F)

Vapor pressure : No data available

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Relative density : 0.876

at 15.6 °C (60.1 °F)

Density : 0.8755 g/cm3

Bulk density : 7.31 L/G

Water solubility : negligible

Partition coefficient: n-

octanol/water

: No data available

: 1.813 cSt

Viscosity, kinematic

at 40°C (104°F)

Relative vapor density

(Air = 1.0)

Evaporation rate : <1

Percent volatile : > 99 %

SECTION 10: Stability and reactivity

Reactivity : Stable under recommended storage conditions.

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

anticipated storage and handling conditions of temperature

and pressure.

Possibility of hazardous reactions

Hazardous reactions : Hazardous reactions: Hazardous polymerization does not

occur.

Hazardous reactions: Vapors may form explosive mixture with

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

: Carbon oxides

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

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SECTION 11: Toxicological information

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Acute oral toxicity : Acute toxicity estimate: 3,572 mg/kg

Method: Calculation method

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Acute inhalation toxicity : Acute toxicity estimate: 6.64 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist Method: Calculation method

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Acute dermal toxicity : Acute toxicity estimate: > 2,000 mg/kg

Method: Calculation method

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Skin irritation : Skin irritation

largely based on animal evidence.

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

and the skin.

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Sensitization : Does not cause skin sensitization.

Estimated based on individual component values.

Repeated dose toxicity

Light Cycle Oil : Species: Rat, males

Sex: males

Application Route: Dermal

Dose: 0, 8, 25, 125, 500, 1250 mg/kg

Exposure time: 90 day

Number of exposures: 5 days/wk

NOEL: 25 mg/kg

Target Organs: Blood, Liver, Thymus

Species: Rat, females

Sex: females

Application Route: Dermal

Dose: 0, 8, 25, 125, 500, 1250 mg/kg

Exposure time: 90 day

Number of exposures: 5 days/wk

NOEL: 125 mg/kg

Target Organs: Blood, Liver, Thymus

C12-C14 Isoalkanes Species: Rat, male and female

Sex: male and female

Application Route: oral gavage Dose: 100, 500, 1000 mg/kg/d

Exposure time: 13 wk Number of exposures: daily NOEL: > 1000 mg/kg/d

Method: OECD Test Guideline 408

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No adverse effects expected

Information given is based on data obtained from similar

substances.

Species: Rat, male and female

Sex: male and female

Application Route: Inhalation Dose: 2600, 5200, 10400 mg/m3

Exposure time: 90 d

Number of exposures: 6 h/d; 5d/wk

NOEL: > 10400 mg/m3

Method: OECD Test Guideline 413 No adverse effects expected

Information given is based on data obtained from similar

substances.

Genotoxicity in vitro

Light Cycle Oil : Test Type: Modified Ames test

Result: positive

Test Type: Mouse lymphoma assay

Result: positive

Test Type: Sister Chromatid Exchange Assay

Result: negative

C12-C14 Isoalkanes Test Type: Ames test

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Test Type: Mouse lymphoma assay

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

Test Type: Sister Chromatid Exchange Assay

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 479

Result: negative

Naphthalene Test Type: Ames test

Result: negative

Test Type: Sister Chromatid Exchange Assay

Result: negative

Test Type: Unscheduled DNA synthesis assay

Result: negative

Genotoxicity in vivo

Light Cycle Oil : Test Type: Cytogenetic assay

Result: negative

C12-C14 Isoalkanes Test Type: dominant lethal test

Species: Rat

Route of Application: Intraperitoneal injection

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Dose: 300, 900 ppm

Method: OECD Test Guideline 478

Remarks: Information given is based on data obtained from

similar substances.

Naphthalene Test Type: Mouse micronucleus assay

Result: negative

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: Remarks: May cause cancer. Carcinogenicity

Developmental Toxicity

Light Cycle Oil : Species: Rat

> Application Route: Dermal Dose: 1, 50, 250 mg/kg/d Number of exposures: once daily

Test period: GD 0-19

Method: OECD Guideline 414 NOAEL Teratogenicity: 1 mg/kg NOAEL Maternal: 1 mg/kg

C12-C14 Isoalkanes Species: Rat

> Application Route: Inhalation Dose: 0, 400, 1200 ppm Exposure time: 6h Test period: GD 6-15

NOAEL Teratogenicity: 1200 ppm NOAEL Maternal: 1200 ppm

Information given is based on data obtained from similar

substances.

Species: Rat

Application Route: Inhalation

Dose: 300, 900 ppm Exposure time: 6h Test period: GD 6-15

NOAEL Teratogenicity: >= 900 ppm NOAEL Maternal: >= 900 ppm

Information given is based on data obtained from similar

substances.

Naphthalene Species: Rabbit

> Application Route: oral gavage Dose: 40, 200, 400 mg/kg Test period: 29 d, GD 6-18

> NOAEL Teratogenicity: 400 mg/kg

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

CMR effects

Light Cycle Oil : Carcinogenicity: Possible human carcinogen

C12-C14 Isoalkanes Carcinogenicity: Not available

> Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects., In vivo tests did not show

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mutagenic effects

Teratogenicity: Animal testing did not show any effects on

fetal development.

Reproductive toxicity: Animal testing did not show any effects

on fertility.

Naphthalene Carcinogenicity: Limited evidence of carcinogenicity in animal

studies

Polynuclear Aromatics Carcinogenicity: Human carcinogen.

Mutagenicity: In vivo tests showed mutagenic effects

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Further information : Solvents may degrease the skin.

SECTION 12: Ecological information

Toxicity to fish

Light Cycle Oil : LL50: > 0.3 mg/l

Exposure time: 96 h

Species: Oncorhynchus mykiss (rainbow trout) semi-static test Method: OECD Test Guideline 203

C12-C14 Isoalkanes LL50: > 1,000 mg/l

Exposure time: 96 h

Species: Oncorhynchus mykiss (rainbow trout) semi-static test Method: OECD Test Guideline 203 Information given is based on data obtained from similar

substances.

Naphthalene LC50: 3.2 mg/l

Exposure time: 96 h

Species: Pimephales promelas (fathead minnow)

Toxicity to daphnia and other aquatic invertebrates

Light Cycle Oil : EL50: 0.32 mg/l

Exposure time: 48 h

Species: Daphnia magna (Water flea)

Immobilization Method: OECD Test Guideline 202

C12-C14 Isoalkanes EL50: > 1,000 mg/l

Exposure time: 48 h

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

Information given is based on data obtained from similar

substances.

Naphthalene LC50: 2.16 mg/l

Exposure time: 48 h

Species: Daphnia magna (Water flea)

Toxicity to algae

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Light Cycle Oil : EL50: 0.51 mg/l

Exposure time: 72 h

Species: Pseudokirchneriella subcapitata (green algae) Growth inhibition Method: OECD Test Guideline 201

C12-C14 Isoalkanes EL50: > 1,000 mg/l

Exposure time: 72 h

Species: Pseudokirchneriella subcapitata (green algae) Growth inhibition Method: OECD Test Guideline 201 Information given is based on data obtained from similar

substances.

Naphthalene EC50: 2.96 mg/l

Exposure time: 48 h

Species: Selenastrum capricornutum (algae)

M-Factor

Distillates (petroleum), light

catalytic cracked

: M-Factor (Acute Aquat. Tox.) 1

M-Factor (Chron. Aquat. Tox.)

Toxicity to fish (Chronic toxicity)

C12-C14 Isoalkanes : No data available:

Biodegradability

Light Cycle Oil : aerobic

56.32 %

Testing period: 28 d

Method: OECD Test Guideline 301F Expected to be inherently biodegradable.

C12-C14 Isoalkanes : aerobic

Result: Readily biodegradable.

89.8 %

Testing period: 28 d

Method: OECD Test Guideline 301F

Information given is based on data obtained from similar

substances.

Bioaccumulation

Light Cycle Oil : The product may be accumulated in organisms.

C12-C14 Isoalkanes : The product may be accumulated in organisms.

Mobility

Light Cycle Oil : No data available

C12-C14 Isoalkanes : immobile

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Results of PBT assessment

Light Cycle Oil : Non-classified PBT substance, Non-classified vPvB substance

C12-C14 Isoalkanes : Non-classified PBT substance, Non-classified vPvB substance

Additional ecological

: Very toxic to aquatic life with long lasting effects.

information

Ecotoxicology Assessment

Short-term (acute) aquatic hazard

Light Cycle Oil : Very toxic to aquatic life.

C12-C14 Isoalkanes : This material is not expected to be harmful to aquatic

organisms.

Naphthalene : Very toxic to aquatic life.

Long-term (chronic) aquatic hazard

Light Cycle Oil : Very toxic to aquatic life with long lasting effects.

C12-C14 Isoalkanes : This material is not expected to be harmful to aquatic

organisms.

Naphthalene : Very 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 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.

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US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)

UN1202, DIESEL FUEL, 3, III

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

UN1202, DIESEL FUEL, 3, III, (46.33 °C c.c.), MARINE POLLUTANT, (LIGHT CYCLE OIL)

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

UN1202, DIESEL FUEL, 3, III

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

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

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

30,UN1202,DIESEL FUEL, 3, III, ENVIRONMENTALLY HAZARDOUS, (LIGHT CYCLE OIL)

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

UN1202, DIESEL FUEL, 3, III, ENVIRONMENTALLY HAZARDOUS, (LIGHT CYCLE OIL)

Maritime transport in bulk according to IMO instruments

SECTION 15: Regulatory information

National legislation

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)

Carcinogenicity

Specific target organ toxicity (single or repeated exposure)

Aspiration hazard

Skin corrosion or irritation

CERCLA Reportable

Quantity

: 2857 lbs

Naphthalene

SARA 302 Reportable

Quantity

: Calculated RQ exceeds reasonably attainable upper limit.

Pyrene

SARA 302 Threshold Planning Quantity

: This material does not contain any components with a section

302 EHS TPQ.

SARA 304 Reportable

Quantity

: Calculated RQ exceeds reasonably attainable upper limit.

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5000 lbs

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Pyrene 129-00-0

SARA 313 Components : The following components are subject to reporting levels

established by SARA Title III, Section 313:

: Naphthalene - 91-20-3

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).

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61):

: Naphthalene - 91-20-3

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

: Light Cycle Oil - 64741-59-9 C12-C14 Isoalkanes - 68551-19-9

Naphthalene - 91-20-3

Polynuclear Aromatics - 130498-29-2

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Xylenes - 1330-20-7 p-xylene - 106-42-3 m-xylene - 108-38-3 Toluene - 108-88-3 o-xylene - 95-47-6 Phenanthrene - 85-01-8 Ethylbenzene - 100-41-4

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California Prop. 65 Components

: WARNING: This product can expose you to chemicals including [listed below], which is [are] known to the State of California to cause cancer. For more information go to

www.P65Warnings.ca.gov/food.

Naphthalene 91-20-3 Polynuclear Aromatics 130498-29-2 Phenanthrene 85-01-8 Ethylbenzene 100-41-4 Pyrene 129-00-0 Fluorene 86-73-7 Benzene 71-43-2

WARNING: This product can expose you to chemicals including [listed below], which is [are] known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Toluene 108-88-3 71-43-2 Benzene

Notification status

Europe REACH This product is in full compliance according to REACH

regulation 1907/2006/EC.

United States of America (USA)

TSCA

Canada DSL

TSCA inventory Switzerland CH INV On the inventory, or in compliance with the inventory

All components of this product are on the Canadian

On or in compliance with the active portion of the

Australia AIIC Not in compliance with the inventory

New Zealand NZIoC Not in compliance with the inventory

On the inventory, or in compliance with the inventory Japan ENCS Korea KECI A substance(s) in this product was not registered,

notified to be registered, or exempted from registration by CPChem according to K-REACH regulations. Importation or manufacture of this product is still permitted provided the Korean Importer of Record has themselves notified the substance or the exported amount does not exceed the minimum threshold quantity of the non-registered substance(s).

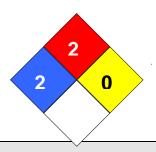
Philippines PICCS Not in compliance with the inventory

Taiwan TCSI On the inventory, or in compliance with the inventory China IECSC On the inventory, or in compliance with the inventory

SECTION 16: Other information

NFPA Classification : Health Hazard: 2

Fire Hazard: 2 Reactivity Hazard: 0



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Further information

Legacy SDS Number : 664950

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 Government Industrial Hygienists	LD50	Lethal Dose 50%	
AIIC	Australian Inventory of Industrial Chemicals	LOAEL	Lowest Observed Adverse Effect Level	
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency	
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational 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 Scenario Tool	OSHA	Occupational Safety & Health Administration	
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit	
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances	
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic	
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 on Cancer	TLV	Threshold Limit Value	
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%	ATE	Acute toxicity estimate	

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