

Version 2.4 Revision Date 2020-01-13

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

**Product information** 

Product Name : Orfom® MC 37 Collector

Material : 1119737, 1119735, 1119734, 1119733, 1119732, 1119711,

1108011, 1106092, 1106090, 1106089, 1106091, 1105818

Use : Mineral Collector

Company : Chevron Phillips Chemical Company LP

Mining 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 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

Argentina: +(54)-1159839431

Responsible Department : Product Safety and Toxicology Group

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

This product is for experimental uses only. The product has not been completely analyzed and all of

the hazards may not be known. Please use caution while handling this product.

#### **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 4 Skin irritation, Category 2

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Eye irritation, Category 2A Skin sensitization, Category 1 Carcinogenicity, Category 1B Reproductive toxicity, Category 2

Specific target organ toxicity - repeated exposure, Category 2,

Blood, Liver, thymus gland Aspiration hazard, Category 1

#### Labeling

Symbol(s) :





Signal Word : Danger

Hazard Statements : H227: Combustible liquid.

H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction. H319: Causes serious eye irritation.

H350: May cause cancer.

H361: Suspected of damaging fertility or the unborn child. H373: May cause damage to organs (Blood, Liver, thymus

gland) through prolonged or repeated exposure.

#### Precautionary Statements : Prevention:

P201 Obtain special instructions before use.

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

No smoking.

P280 Wear protective gloves/ protective clothing/ eye

protection/ face protection.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON

CENTER/doctor.

P302 + P352 IF ON SKIN: Wash with plenty of water.

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

attention.

P311 Call a POISON CENTER or doctor/ physician.

P331 Do NOT induce vomiting.

P333 + P313 If skin irritation or rash occurs: Get medical

advice/ attention.

P362 + P364 Take off contaminated clothing and wash it

before reuse.

P337 + P313 If eye irritation persists: Get medical advice/

attention.

P370 + P378 In case of fire: Use alcohol-resistant foam,

carbon dioxide or water mist to extinguish.

Storage:

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

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

#### Carcinogenicity:

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IARC Group 2B: Possibly carcinogenic to humans

Decant (clarified) Oils 64741-62-4 Light Cycle Oil 64741-59-9

Light Oyolc Oil 04741 33

NTP Known to be human carcinogen

Light Cycle Oil 64741-59-9

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

Synonyms : None Established

Molecular formula : Mixture

Component	CAS-No.	Weight %
Light Cycle Oil	64741-59-9	25 - 75
tert-Dodecanethiol	25103-58-6	25 - 75
Decant (clarified) Oils	64741-62-4	25 - 75

This is an experimental material: The composition of this material may vary.

#### **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 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 : 93°C (199°F)

Autoignition temperature : 260°C (500°F)

Suitable extinguishing

media

: Carbon dioxide (CO2).

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.

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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. Keep away from open flames, hot surfaces and

sources of ignition.

Hazardous decomposition

products

Carbon oxides. Sulfur oxides.

#### **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 : 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). 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. 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. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations. Persons susceptible to skin sensitization problems or asthma, allergies, chronic or

recurrent respiratory disease should not be employed in any

process in which this mixture is being used.

Advice on protection against fire and explosion

Do not spray on an open flame or any other incandescent material. Keep away from open flames, hot surfaces and

sources of ignition.

#### **Storage**

Requirements for storage areas and containers

No smoking. Keep in a well-ventilated place. Containers which are opened must be carefully resealed and kept upright

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to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the

technological safety standards.

Use : Mineral Collector

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

#### Ingredients with workplace control parameters

**Chevron Phillips Chemical Company LP** 

Components	Basis	Value	Control parameters	Note
tert-Dodecanethiol	Manufacturer	TWA	0.1 ppm,	
us				
Components	Basis	Value	Control parameters	Note

Hazardous components without workplace control parameters

#### **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 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 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.

is any indication of degradation of electrical breakingdight.

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 protective clothing. Remove and wash contaminated clothing before re-use. Skin should be washed after contact. Footwear

protecting against chemicals.

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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 : Dark Brown
Odor : Pungent

Safety data

Flash point : 93°C (199°F)

Lower explosion limit : 0.6 %(V)

Oxidizing properties : no

Autoignition temperature : 260°C (500°F)

Molecular formula : Mixture

Molecular weight : Not applicable

pH : Not applicable

Pour point : No data available

Boiling point/boiling range : 110-427°C (230-801°F)

Vapor pressure : 1.00 MMHG

at 25°C (77°F)

Relative density : No data available

Density : 0.9529 g/cm3

Water solubility : Negligible

Partition coefficient: n-

: No data available

octanol/water

Viscosity, kinematic : No data available

Relative vapor density : 1

(Air = 1.0)

Evaporation rate : < 1

# SECTION 10: Stability and reactivity

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

anticipated storage and handling conditions of temperature

and pressure.

Possibility of hazardous reactions

Hazardous reactions : Hazardous polymerization does not

occur.

Further information: No decomposition if stored and applied as

directed.

Hazardous reactions: Vapors may form explosive mixture with

air.

Conditions to avoid

Hazardous decomposition

products

: Heat, flames and sparks.: Carbon oxides

Sulfur oxides

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

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

#### THE TOXICITY OF THIS MATERIAL HAS NOT BEEN FULLY ASSESSED

Since this is an experimental material, limited data are available regarding potential health effects following exposure to it. Therefore, we strongly recommend that this document be read carefully and the precautions outlined in it be followed to minimize exposure.

This product is for experimental uses only. The product has not been completely analyzed and all of the hazards may not be known. Please use caution while handling this product.

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Acute oral toxicity : LD50: > 3,000 mg/kg

Method: Acute toxicity estimate

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Acute inhalation toxicity : LC50: > 14 mg/l

Exposure time: 4 h
Test atmosphere: vapor

Method: Acute toxicity estimate

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Acute dermal toxicity : LD50: > 3,000 mg/kg

Method: Acute toxicity estimate

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**Skin irritation** : Skin irritation

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**Eye irritation** : Eye irritation

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**Sensitization** : Causes sensitization.

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## 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

tert-Dodecanethiol Species: Rat, male

Sex: male

Application Route: Inhalation

Dose: 0, 26, 98 ppm Exposure time: 4 wk

Number of exposures: 6 h/d, 5 d/wk Lowest observable effect level: 26 ppm Method: OECD Test Guideline 412 Target Organs: Kidney, Liver

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Species: Rat, female

Sex: female

Application Route: Inhalation

Dose: 0, 26, 98 ppm Exposure time: 4 wk

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

NOEL: 26 ppm

Method: OECD Guideline 412 Target Organs: Liver, Kidney

Species: Dog, male and female

Sex: male and female Application Route: Inhalation Dose: 0, 25, 106 ppm Exposure time: 4 wk

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

NOEL: 25 ppm

Lowest observable effect level: 109 ppm

Method: OECD Test Guideline 412

Target Organs: Liver

Species: Mouse, male and female

Sex: male and female Application Route: Inhalation Dose: 0, 25, 109 ppm

Exposure time: 4 wk

Number of exposures: 6 h/d, 5 d/wk Lowest observable effect level: 25 ppm Method: OECD Test Guideline 412

Target Organs: Liver

Species: Rat, male

Sex: male

Application Route: oral gavage Dose: 10, 50, 250 mg/kg Exposure time: 35 d

Number of exposures: once daily

NOEL: 50 mg/kg

Method: OECD Guideline 422 Target Organs: Liver, spleen

Information given is based on data obtained from similar

substances.

Species: Rat, female

Sex: female

Application Route: oral gavage Dose: 10, 50, 250 mg/kg Exposure time: 53 d

Number of exposures: once daily

NOEL: 50 mg/kg

Method: OECD Guideline 422 Target Organs: Liver, spleen

Information given is based on data obtained from similar

substances.

Species: Rat, male

Sex: male

Application Route: Inhalation Dose: 5, 25, 100 ppm Exposure time: 90 d

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

NOEL: 25 ppm

Method: OECD Test Guideline 413

Species: Rat, female

Sex: female

Application Route: Inhalation Dose: 5, 25, 100 ppm Exposure time: 90 d

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

NOEL: 25 ppm

Method: OECD Test Guideline 413

Decant (clarified) Oils Species: Rat

Application Route: Dermal Dose: 0, 8, 30, 125, 500 mg/kg

Exposure time: 13 wk

Lowest observable effect level: 8 mg/kg

Target Organs: Liver

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

tert-Dodecanethiol 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 Guideline 476

Result: negative

Test Type: Sister Chromatid Exchange Assay

Metabolic activation: with and without metabolic activation

Method: OECD Guideline 479

Result: negative

Test Type: Chromosome aberration test in vitro

Metabolic activation: with and without metabolic activation

Method: OECD Guideline 473

Result: Ambiguous

Decant (clarified) Oils Test Type: Modified Ames test

Result: positive

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Test Type: Mouse lymphoma assay

Result: positive

Test Type: Sister Chromatid Exchange Assay

Result: positive

Test Type: Unscheduled DNA synthesis assay

Result: positive

Test Type: Cell transformation assay

Result: Ambiguous

Genotoxicity in vivo

Light Cycle Oil : Test Type: Cytogenetic assay

Result: negative

tert-Dodecanethiol Test Type: In vivo micronucleus test

Species: Mouse

Route of Application: Oral

Dose: 1250, 2500, 5000 mg/kg/bw Method: Mutagenicity (micronucleus test)

Result: negative

Remarks: Information given is based on data obtained from

similar substances.

Decant (clarified) Oils Test Type: Sister Chromatid Exchange Assay

Result: positive

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Carcinogenicity

: Method: Expected to be carcinogenic based on individual

component data.

Reproductive toxicity

tert-Dodecanethiol : Species: Rat

Sex: male

Application Route: oral gavage Dose: 10, 50, 250 mg/kg/d Exposure time: 35 d Number of exposures: Daily Method: OECD Guideline 422 NOAEL Parent: >= 250 mg/kg

Information given is based on data obtained from similar

substances.

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Species: Rat Sex: female

Application Route: oral gavage Dose: 10, 50, 250 mg/kg/d Exposure time: 53 d Number of exposures: Daily Method: OECD Guideline 422 NOAEL Parent: 50 mg/kg NOAEL F1: 50 mg/kg

Information given is based on data obtained from similar

substances.

Decrease in Delivery Index

Decant (clarified) Oils Suspected of damaging fertility or the unborn child.

**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

tert-Dodecanethiol Species: Rat

Application Route: Inhalation Dose: 0, 22.7, 88.6 ppm Number of exposures: 6 hrs/d

Test period: GD 6-19

Method: OECD Guideline 414 NOAEL Teratogenicity: >= 88.6 ppm

No adverse effects expected

Species: Mouse

Application Route: Inhalation Dose: 0, 22.7, 88.6 ppm Number of exposures: 6 hrs/d

Test period: GD 6-19

Method: OECD Guideline 414 NOAEL Teratogenicity: >= 88.6 ppm

No adverse effects expected

Decant (clarified) Oils Species: Rat

**Application Route: Dermal** 

Dose: 0, 0.05, 1, 50, 250 mg/kg/bw/d

Exposure time: 6h/d Number of exposures: daily Test period: GD 0-19

NOAEL Teratogenicity: 0.05 mg/kg NOAEL Maternal: 0.05 mg/kg

Suspected of damaging fertility or the unborn child.

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

**CMR** effects

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Light Cycle Oil : Carcinogenicity: Possible human carcinogen

tert-Dodecanethiol Carcinogenicity: Not available

Mutagenicity: Tests on bacterial or mammalian cell cultures

did not show mutagenic effects.

Teratogenicity: Animal testing did not show any effects on

fetal development.

Reproductive toxicity: No toxicity to reproduction

Decant (clarified) Oils Carcinogenicity: Possible human carcinogen

Reproductive toxicity: Some evidence of adverse effects on sexual function and fertility, and/or on development, based on

animal experiments.

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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

tert-Dodecanethiol LL50: > 100 mg/l

Exposure time: 96 h

Species: Danio rerio (Zebra Fish)

static test Method: OECD Test Guideline 203

No toxicity at the limit of solubility.

Decant (clarified) Oils LL50: 79 mg/l

Exposure time: 96 h

semi-static test Method: OECD Test Guideline 203 Information given is based on data obtained from similar

substances.

#### 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

tert-Dodecanethiol EC50: > 0.056 mg/l

Exposure time: 48 h

Species: Daphnia magna (Water flea)

semi-static test Method: OECD Test Guideline 202

No toxicity at the limit of solubility.

Decant (clarified) Oils EL50: 0.22 mg/l

Exposure time: 48 h

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

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Toxicity to algae

Light Cycle Oil : EL50: 0.51 mg/l

Exposure time: 72 h

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

Decant (clarified) Oils EL50: 0.32 mg/l

Exposure time: 72 h

static test Method: OECD Test Guideline 201

M-Factor

Distillates (petroleum), light

catalytic cracked

M-Factor (Acute Aquat. Tox.) 1

M-Factor (Chron. Aquat. Tox.)

M-Factor

Clarified oils (petroleum),

catalytic cracked

M-Factor (Acute Aquat. Tox.) 1

M-Factor (Chron. Aquat. Tox.) 1

Toxicity to bacteria

tert-Dodecanethiol : NOEC: 8.6 mg/l

Exposure time: 3 h

Growth rate

Respiration inhibition

Method: OECD Test Guideline 209

NOEC: > 10 mg/l Exposure time: 3 h Growth rate

Respiration inhibition

Method: OECD Test Guideline 209

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

tert-Dodecanethiol : NOEC: 0.0108 mg/l

Exposure time: 21 d

Species: Daphnia magna (Water flea)

semi-static test

Method: OECD Test Guideline 211 No toxicity at the limit of solubility.

Biodegradability : Taking into consideration the properties of several ingredients,

the product is estimated not to be readily biodegradable

according to OECD classification.

Elimination information (persistence and degradability)

Bioaccumulation

tert-Dodecanethiol : Species: Danio rerio (zebra fish)

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Exposure time: 15 d

Bioconcentration factor (BCF): > 500 - < 1,950

Method: OECD Test Guideline 305

Biomagnification factor <1

The product may be accumulated in organisms.

Results of PBT assessment

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

tert-Dodecanethiol : Non-classified PBT substance, Non-classified vPvB substance

Decant (clarified) Oils : Non-classified PBT substance, Non-classified vPvB substance

Additional ecological

information

: Very toxic to aquatic life with long lasting effects.

**Ecotoxicology Assessment** 

Short-term (acute) aquatic hazard

Light Cycle Oil : Very toxic to aquatic life.

tert-Dodecanethiol : No toxicity at the limit of solubility.

Decant (clarified) Oils : Very toxic to aquatic life.

Long-term (chronic) aquatic hazard

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

tert-Dodecanethiol : May cause long lasting harmful effects to aquatic life.

Decant (clarified) Oils : Very toxic to aquatic life with long lasting effects.

Toxicity Data on Soil

tert-Dodecanethiol : Adsorbs on soil.

# **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.

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#### **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)**

UN1268, PETROLEUM DISTILLATES, N.O.S., COMBUSTIBLE LIQUID, III

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

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (LIGHT CYCLE OIL, DECANT (CLARIFIED) OILS), 9, III, (93°C), MARINE POLLUTANT, (LIGHT CYCLE OIL, DECANT (CLARIFIED) OILS)

#### IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

UN3334, AVIATION REGULATED LIQUID, N.O.S., (LIGHT CYCLE OIL, DECANT (CLARIFIED) OILS), 9, III

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

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (LIGHT CYCLE OIL, DECANT (CLARIFIED) OILS), 9, III

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

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (LIGHT CYCLE OIL, DECANT (CLARIFIED) OILS), 9, III

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

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (LIGHT CYCLE OIL, DECANT (CLARIFIED) OILS), 9, III

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 : Fire Hazard

Acute Health Hazard Chronic Health Hazard

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#### **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

304 EHS RQ.

SARA 313 Components : 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 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

: tert-Dodecanethiol - 25103-58-6

California Prop. 65

Components

: WARNING! This product contains a chemical known in the

State of California to cause cancer.

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Decant (clarified) Oils 64741-62-4

**Notification status** 

Europe REACH : A substance or substances in this product is not

registered or notified to be registered. Importation or manufacture of this product is still permitted provided that it does not exceed the REACH minimum threshold

quantity of the non-regulated substances.

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

United States of America (USA) : On or in compliance with the active portion of the

TSCA 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 : Not in compliance with the inventory

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

Philippines PICCS : Not in compliance with the inventory

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

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

NFPA Classification : Health Hazard: 2

Fire Hazard: 2
Reactivity Hazard: 0



#### **Further information**

Legacy SDS Number : CPC00568

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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Key or legend to abbreviations and acronyms used in the safety data sheet				
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%	
AICS	Australia, Inventory of Chemical Substances	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%			

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