

Version 3.0 Revision Date 2023-07-18

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

**Product information** 

Product Name : Molyflo® Flotation Oil

Material : 1117265, 1113924, 1106088, 1096191, 1104322, 1016849,

1016848

Use : Mineral Processing Aide

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

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
Acute toxicity, Category 4, Inhalation

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. H332: Harmful if inhaled. 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 2/17

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read and understood.

P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.

Ground/bond container and receiving equipment. P240

P242 Use only non-sparking tools.

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

Wash skin thoroughly after handling. P264

P280 Wear protective gloves/ protective clothing/ eye

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.

Take off contaminated clothing and wash before reuse. 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.

#### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

#### Carcinogenicity:

**IARC** Group 2B: Possibly carcinogenic to humans

> Light Cycle Oil 64741-59-9 Naphthalene 91-20-3 Group 2A: Probably carcinogenic to humans Polynuclear Aromatics 130498-29-2

**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 Flotation Oil

Light Cycle Oil

LCO

Molecular formula UVCB

Component	CAS-No.	Weight %
Light Cycle Oil	64741-59-9	100
Naphthalene	91-20-3	0 - 5
Polynuclear Aromatics	130498-29-2	0 - 1

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#### **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. 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 : >=60°C (>=140°F)

Method: 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.

Hazardous decomposition

products

: Hydrocarbons. Carbon oxides.

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#### **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 : Mineral Processing Aide

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

## Ingredients with workplace control parameters

#### 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,

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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 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. 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.

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

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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** 

Form : liquid
Physical state : liquid
Color : Amber
Odor : petroleum

Safety data

Flash point : >=60°C (>=140°F)

Method: closed cup

Lower explosion limit : 1 %(V)

Upper explosion limit : 6 %(V)

Oxidizing properties : No

Autoignition temperature : No data available

Molecular formula : UVCB

Molecular weight : Not applicable

pH : Not applicable

Pour point : -38°C (-36°F)

Method: ASTM D5972

Boiling point/boiling range : 148.89°C (300.00°F)

Vapor pressure : 0.13 kPa

Relative density : 0.93

Water solubility : negligible

Partition coefficient: n-

: No data available

octanol/water

Viscosity, kinematic : 2.5 cSt

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at 40°C (104°F)

Relative vapor density : No data available

Evaporation rate : 1

Percent volatile : 1 %

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

**Reactivity** : Stable under recommended storage conditions.

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.

Hazardous reactions: Vapors may form explosive mixture with

air.

**Conditions to avoid** : Heat, flames and sparks.

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

chlorates, nitrates, peroxides, etc.

Hazardous decomposition

products

: Hydrocarbons Carbon oxides

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

## **SECTION 11: Toxicological information**

**Acute oral toxicity** 

Light Cycle Oil : LD50: 3,200 - 4,660 mg/kg

Species: Rat

Sex: male and female

Naphthalene LD50: 500 mg/kg

Method: Converted acute toxicity point estimate

Acute inhalation toxicity

Light Cycle Oil : LC50: 4.65 mg/l

Exposure time: 4 h Species: Rat

Sex: male and female

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Test atmosphere: dust/mist

Method: OECD Test Guideline 403

**Acute dermal toxicity** 

Light Cycle Oil : LD50: > 2,000 mg/kg

Species: Rabbit Sex: male and female

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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** : Did not cause sensitization on laboratory animals.

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

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

Naphthalene Test Type: Ames test

Result: negative

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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

Naphthalene Test Type: Mouse micronucleus assay

Result: negative

Carcinogenicity

Naphthalene : Species: Mouse

Sex: male

Dose: 10, 30 ppm

Exposure time: 105 weeks

Number of exposures: 6 hours/day, 5 days/week

Test substance: yes

Print Date: No information available.
Remarks: No evidence of carcinogenicity

Species: Mouse Sex: female Dose: 10, 30 ppm

Exposure time: 105 weeks

Number of exposures: 6 hours/day, 5 days/week

Test substance: yes

Print Date: No information available.

Remarks: increased incidence of alveolar/bronchiolar

adenomas

Species: Rat

Sex: male and female Dose: 10, 30, 60 ppm Exposure time: 105 weeks

Number of exposures: 6 hours/day, 5 days/week

Test substance: yes

Print Date: No information available.

Remarks: nose respiratory epithelial adenoma, increased

incidence of olfactory neuroblastomas

**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

Naphthalene Species: Rabbit

Application Route: oral gavage

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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

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

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

Naphthalene LC50: 2.16 mg/l

Exposure time: 48 h

Species: Daphnia magna (Water flea)

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

Naphthalene EC50: 2.96 mg/l

Exposure time: 48 h

Species: Selenastrum capricornutum (algae)

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M-Factor

Distillates (petroleum), light

catalytic cracked

M-Factor (Acute Aquat. Tox.)

M-Factor (Chron. Aquat. Tox.)

1

Biodegradability

Light Cycle Oil : aerobic

56.32 %

Testing period: 28 d

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

Bioaccumulation

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

Mobility

Light Cycle Oil : No data available

Results of PBT assessment

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

Additional ecological

information

**Ecotoxicology Assessment** 

Short-term (acute) aquatic

hazard

Long-term (chronic) aquatic

hazard

: Very toxic to aquatic life.

: Very toxic to aquatic life with long lasting effects.

: 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.

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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 PRODUCTS, N.O.S., 3, III

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

UN1268, PETROLEUM PRODUCTS, N.O.S., 3, III, (>= 60 °C c.c.), MARINE POLLUTANT, (LIGHT CYCLE OIL, NAPTHALENE)

### IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

UN1268, PETROLEUM PRODUCTS, N.O.S., 3, III

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

UN1268, PETROLEUM PRODUCTS, N.O.S., 3, III, (D/E), ENVIRONMENTALLY HAZARDOUS, (LIGHT CYCLE OIL, NAPTHALENE)

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

30,UN1268,PETROLEUM PRODUCTS, N.O.S., 3, III, ENVIRONMENTALLY HAZARDOUS, (LIGHT CYCLE OIL, NAPTHALENE)

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

UN1268, PETROLEUM PRODUCTS, N.O.S., 3, III, ENVIRONMENTALLY HAZARDOUS, (LIGHT CYCLE OIL, NAPTHALENE)

Maritime transport in bulk according to IMO instruments

## **SECTION 15: Regulatory information**

**National legislation** 

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

Acute toxicity (any route of exposure)

Carcinogenicity

Specific target organ toxicity (single or repeated exposure)

Aspiration hazard

Skin corrosion or irritation

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

CERCLA Reportable

Quantity

: 2000 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.

Pyrene 129-00-0 5000 lbs

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**

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Pennsylvania Right To Know

: Light Cycle Oil - 64741-59-9 Naphthalene - 91-20-3

Polynuclear Aromatics - 130498-29-2

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

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 Benzene 71-43-2

## **Notification status**

Europe REACH : This product is in full compliance according to REACH

regulation 1907/2006/EC.

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 AIIC : 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 or the exported amount does not exceed the minimum threshold

quantity of the non-registered substance(s).

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Philippines PICCS : On the inventory, or 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



#### **Further information**

Legacy SDS Number : 59560

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	TLV	Threshold Limit Value

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# Molyflo® Flotation Oil

Version 3.0 Revision Date 2023-07-18

	on Cancer		
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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