# **SUNCOR BHB**



### OS000000006

Version 7.0 Revision Date 2019/04/16 Print Date 2019/09/10

### **SECTION 1. IDENTIFICATION**

Product name SUNCOR BHB

Product code 100013

Manufacturer or supplier's details

SUNCOR ENERGY INC.

P.O. Box 2844, 150 - 6th Avenue South-West

Calgary Alberta T2P 3E3

Canada

Emergency telephone num-

ber

Suncor Energy: +1 403-296-3000;

Canutec Transportation: 1-888-226-8832 (toll-free) or 613-

996-6666:

Poison Control Centre: Consult local telephone directory for

emergency number(s).

#### Recommended use of the chemical and restrictions on use

Refinery Feedstock Recommended use

Prepared by Product Safety: +1 905-804-4752

#### **SECTION 2. HAZARDS IDENTIFICATION**

### **Emergency Overview**

•	
Appearance	liquid
Colour	black
Odour	Hydrocarbon or "rotten egg" if H2S present, but odour is an unreliable warning, since it may deaden the sense of smell.

### **GHS Classification**

Flammable liquids : Category 1

Skin irritation : Category 2

Eye irritation : Category 2A

Germ cell mutagenicity : Category 1B

Carcinogenicity : Category 1A

Reproductive toxicity : Category 2

Specific target organ toxicity

- single exposure

: Category 3 (Central nervous system)

Specific target organ toxicity

- repeated exposure

: Category 1 (Immune system, Blood)

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#### **GHS** label elements

Hazard pictograms







Signal word Danger

Hazard statements : Extremely flammable liquid and vapour.

Causes skin irritation.

Causes serious eye irritation. May cause drowsiness or dizziness.

May cause genetic defects.

May cause cancer.

Suspected of damaging fertility or the unborn child.

Causes damage to organs (Immune system, Blood) through

prolonged or repeated exposure.

### Precautionary statements

#### Prevention:

Obtain special instructions before use.

Do not handle until all safety precautions have been read and

Keep away from heat, hot surfaces, sparks, open flames and

other ignition sources. No smoking. Keep container tightly closed.

Ground and bond container and receiving equipment.

Use explosion-proof electrical/ ventilating/ lighting equipment.

Use non-sparking tools.

Take action to prevent static discharges.

Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

Wash skin thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

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

#### Response:

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue

rinsing.

IF exposed or concerned: Get medical advice/ attention. If skin irritation occurs: Get medical advice/ attention. If eye irritation persists: Get medical advice/ attention. Take off contaminated clothing and wash it before reuse. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

# Storage:

Store in a well-ventilated place. Keep container tightly closed.

Store in a well-ventilated place. Keep cool.

Store locked up.

### Disposal:

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Dispose of contents/ container to an approved waste disposal

plant.

**Potential Health Effects** 

Primary Routes of Entry : Inhalation

Eye contact Skin contact Ingestion

Aggravated Medical Condi-

tion

: None known.

Other hazards

None known.

IARC Group 1: Carcinogenic to humans

Benzene 71-43-2

1,3-Butadiene 106-99-0

Group 2B: Possibly carcinogenic to humans

Ethylbenzene 100-41-4

ACGIH Confirmed human carcinogen

Benzene 71-43-2

Suspected human carcinogen

1,3-Butadiene 106-99-0

Confirmed animal carcinogen with unknown relevance to hu-

mans

Ethylbenzene 100-41-4

### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

**Hazardous components** 

Chemical name	CAS-No.	Concentration	
Bitumens	128683-24-9	60 - 80 %	

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Naphtha (oil sand), hydrotreated	128683-33-0	0 - 40 %
isopentane	78-78-4	10 - 20 %
nonane	111-84-2	5 - 10 %
decane	124-18-5	5 - 10 %
pentane	109-66-0	5 - 10 %
n-octane	111-65-9	5 - 10 %
n-heptane	142-82-5	5 - 10 %
n-hexane	110-54-3	5 - 10 %
butane	106-97-8	2 - 5 %
xylene	1330-20-7	1 - 5 %
isobutane	75-28-5	1 - 5 %
sulfur	7704-34-9	<= 3.5 %
benzene	71-43-2	0.5 - 1.5 %
toluene	108-88-3	0.5 - 1.5 %
1,3-butadiene	106-99-0	0.1 - 1 %
ethylbenzene	100-41-4	0.1 - 1 %
trimethylbenzene	25551-13-7	0.1 - 1 %

Contains trace amounts of Polycyclic aromatic hydrocarbons, some of which are suspected carcinogens., May contain 0 - 100 ppmw hydrogen sulphide in liquid phase.

All concentrations are percent by volume.

#### **SECTION 4. FIRST AID MEASURES**

If inhaled	:	Move to fresh air.
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Artificial respiration and/or oxygen may be necessary.

Seek medical advice.

In case of skin contact : In case of contact, immediately flush skin with plenty of water

for at least 15 minutes while removing contaminated clothing

and shoes.

Wash skin thoroughly with soap and water or use recognized

skin cleanser.

Wash contaminated clothing before reuse.

Seek medical advice.

In case of eye contact : Remove contact lenses.

Rinse immediately with plenty of water, also under the eyelids,

for at least 15 minutes. Obtain medical attention.

If swallowed : Rinse mouth with water.

Never give anything by mouth to an unconscious person. DO NOT induce vomiting unless directed to do so by a physi-

cian or poison control center.

Seek medical advice.

Most important symptoms and effects, both acute and

delayed

: Respiratory, skin and eye irritation; nausea; cancer.

Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomit-

ing.

Inhalation may cause central nervous system effects.

Ingestion may cause gastrointestinal irritation, nausea, vomit-

ing and diarrhoea.

Symptoms of hydrogen sulphide overexposure include respir-

atory tract irritation and shortness of breath.

Exposure to very high levels of hydrogen sulphide (> 500

ppm) will result in unconsciousness and death.

Notes to physician : Treat symptomatically.

Contact poison treatment specialist immediately if large quan-

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tities have been ingested or inhaled.

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Carbon dioxide (CO2)

Foam

Dry chemical

Unsuitable extinguishing

media

: No information available.

Specific hazards during fire-

fighting

: Cool closed containers exposed to fire with water spray.

Hazardous combustion prod-

ucts

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: Carbon oxides (CO, CO2), sulphur oxides (SOx), hydrogen sulphide (H2S), hydrocarbons, smoke and irritating vapours

as products of incomplete combustion.

Further information : Prevent fire extinguishing water from contaminating surface

water or the ground water system.

Special protective equipment

for firefighters

Wear self-contained breathing apparatus for firefighting if nec-

essary.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emer-

gency procedures

Personal precautions, protec- : For personal protection see section 8.

Ensure adequate ventilation.

Evacuate personnel to safe areas.

Material can create slippery conditions.

Environmental precautions : If the p

: If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up

: Prevent further leakage or spillage if safe to do so.

Remove all sources of ignition.

Soak up with inert absorbent material. Non-sparking tools should be used. Ensure adequate ventilation. Contact the proper local authorities.

### **SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : For personal protection see section 8.

Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

In case of insufficient ventilation, wear suitable respiratory

equipment.

Avoid contact with skin, eyes and clothing.

Do not ingest.

Keep away from heat and sources of ignition. Keep container closed when not in use.

Hydrogen sulphide may accumulate in enclosed spaces.

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Open tank car hatches with caution.

Conditions for safe storage : Store in original container.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage.

Keep in a dry, cool and well-ventilated place.

Keep in properly labelled containers.

To maintain product quality, do not store in heat or direct sun-

light.

Hydrogen sulphide may be released and collect in the vapor

space of process vessels and storage tanks.

# **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Bitumens	128683-24-9	TWA	2 mg/m3 (Bitumen fume)	Suncor En- ergy
isopentane	78-78-4	TWA	600 ppm 1,770 mg/m3	CA AB OEL
nonane	111-84-2	TWA	200 ppm 1,050 mg/m3	CA AB OEL
		TWAEV	200 ppm 1,050 mg/m3	CA QC OEL
		TWA	200 ppm	CA BC OEL
		TWA	200 ppm	ACGIH
pentane	109-66-0	TWAEV	120 ppm 350 mg/m3	CA QC OEL
		TWA	600 ppm 1,770 mg/m3	CA AB OEL
		TWA	600 ppm	CA BC OEL
		TWA	1,000 ppm	ACGIH
n-octane	111-65-9	TWA	300 ppm 1,400 mg/m3	CA AB OEL
		TWAEV	300 ppm 1,400 mg/m3	CA QC OEL
		STEV	375 ppm 1,750 mg/m3	CA QC OEL
		TWA	300 ppm	CA BC OEL
		TWA	300 ppm	ACGIH
n-heptane	142-82-5	TWA	400 ppm	CA BC OEL
		STEL	500 ppm	CA BC OEL
		TWAEV	400 ppm 1,640 mg/m3	CA QC OEL
		STEV	500 ppm 2,050 mg/m3	CA QC OEL
		TWA	400 ppm 1,640 mg/m3	CA AB OEL
		STEL	500 ppm 2,050 mg/m3	CA AB OEL
		TWA	400 ppm	ACGIH
		STEL	500 ppm	ACGIH

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n-hexane	110-54-3	TWA	50 ppm 176 mg/m3	CA AB OEL
		TWA	20 ppm	CA BC OEL
		TWAEV	50 ppm 176 mg/m3	CA QC OEL
		TWA	50 ppm	ACGIH
butane	106-97-8	TWA	1,000 ppm	CA AB OEL
		TWA	600 ppm	CA BC OEL
		STEL	750 ppm	CA BC OEL
		TWAEV	800 ppm 1,900 mg/m3	CA QC OEL
		STEL	1,000 ppm	ACGIH
xylene	1330-20-7	STEL	150 ppm 651 mg/m3	CA AB OEL
		TWA	100 ppm 434 mg/m3	CA AB OEL
		TWAEV	100 ppm 434 mg/m3	CA QC OEL
		STEV	150 ppm 651 mg/m3	CA QC OEL
		TWA	100 ppm	CA BC OEL
		STEL	150 ppm	CA BC OEL
		TWA	100 ppm	ACGIH
		STEL	150 ppm	ACGIH
		TWA	100 ppm	ACGIH
		STEL	150 ppm	ACGIH
benzene	71-43-2	TWA	0.5 ppm 1.6 mg/m3	CA AB OEL
		STEL	2.5 ppm 8 mg/m3	CA AB OEL
		TWA	0.5 ppm	CA BC OEL
		STEL	2.5 ppm	CA BC OEL
		TWA	0.5 ppm	CA ON OEL
		STEL	2.5 ppm	CA ON OEL
		TWAEV	1 ppm 3 mg/m3	CA QC OEL
		STEV	5 ppm 15.5 mg/m3	CA QC OEL
		TWA	0.5 ppm	ACGIH
		STEL	2.5 ppm	ACGIH
toluene	108-88-3	TWA	50 ppm 188 mg/m3	CA AB OEL
		TWA	20 ppm	CA BC OEL
		TWAEV	50 ppm 188 mg/m3	CA QC OEL
		TWA	20 ppm	ACGIH
1,3-butadiene	106-99-0	TWA	2 ppm 4.4 mg/m3	CA AB OEL
		TWA	2 ppm	CA BC OEL
		TWAEV	2 ppm 4.4 mg/m3	CA QC OEL
		TWA	2 ppm	ACGIH
ethylbenzene	100-41-4	TWA	100 ppm 434 mg/m3	CA AB OEL





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		STEL	125 ppm 543 mg/m3	CA AB OEL
		TWA	20 ppm	CA BC OEL
		STEV	125 ppm 543 mg/m3	CA QC OEL
		TWAEV	100 ppm 434 mg/m3	CA QC OEL
		TWA	20 ppm	ACGIH
hydrogen sulphide	7783-06-4	TWA	10 ppm 14 mg/m3	CA AB OEL
		Ceiling	15 ppm 21 mg/m3	CA AB OEL
		Ceiling	10 ppm	CA BC OEL
		TWA	10 ppm	CA ON OEL
		STEL	15 ppm	CA ON OEL
		TWAEV	10 ppm 14 mg/m3	CA QC OEL
		STEV	15 ppm 21 mg/m3	CA QC OEL
		TWA	1 ppm	ACGIH
		STEL	5 ppm	ACGIH

# **Biological occupational exposure limits**

Components	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissible concentra-tion	Basis
Toluene	108-88-3	Toluene	In blood	Prior to last shift of work- week	0.02 mg/l	ACGIH BEI
		Toluene	Urine	End of shift (As soon as possible after exposure ceases)	0.03 mg/l	ACGIH BEI

**Engineering measures** : Adequate ventilation to ensure that Occupational Exposure

Limits are not exceeded.

### Personal protective equipment

Respiratory protection : Concentration in air determines protection needed.

Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe

working limits of the selected respirator.

If hydrogen sulphide is present full-face supplied air respira-

tor with escape bottle or SCBA is required.

Filter type : Wear a NIOSH-approved respirator/breathing apparatus in

situations where there may be potential for airborne expo-

sure.

Hand protection

Material : neoprene, nitrile. Consult your PPE provider for breakthrough

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> times and the specific glove that is best for you based on your use patterns. It should be realized that eventually any material regardless of their imperviousness, will get permeated by chemicals. Therefore, protective gloves should be regularly checked for wear and tear. At the first signs of

hardening and cracks, they should be changed.

Remarks : Chemical-resistant, impervious gloves complying with an

> approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is nec-

essarv.

: Wear face-shield and protective suit for abnormal processing Eye protection

problems.

Ensure that eyewash stations and safety showers are close

to the workstation location.

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

tration and amount of dangerous substances, and to the spe-

cific work-place.

Protective measures Wash contaminated clothing before re-use.

Remove and wash contaminated clothing and gloves, includ-Hygiene measures

ing the inside, before re-use.

Wash face, hands and any exposed skin thoroughly after

handling.

### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance** : liquid

Colour : black

Odour : Hydrocarbon or "rotten egg" if H2S present, but odour is an

unreliable warning, since it may deaden the sense of smell.

Odour Threshold : No data available No data available pΗ : No data available Melting point/range : < -0.5 °C (< 31.1 °F)

Initial boiling point and boiling

range

Method: ASTM D-2887

Decomposition temperature No data available : < -35 °C (-31 °F) Flash point

Method: ASTM D 93, closed cup

: 291 °C (556 °F) Auto-Ignition Temperature

Evaporation rate : No data available

Flammability : Easily ignites under almost all normal temperature conditions.

> Extremely flammable in presence of open flames, sparks, shocks, heat, oxidizing materials. Vapours are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks), and may travel con-

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siderable distance to sources of ignition and flash back.

Upper explosion limit : No data available
Lower explosion limit : No data available

Vapour pressure : 40 - 50 kPa (37.8 °C / 100.0 °F)

Method: ASTM D6377

Relative vapour density :

No data available

Relative density

No data available

Density : 915 - 940 kg/m3 (15.56 °C / 60.01 °F)

Solubility(ies)

Water solubility : insoluble

Partition coefficient: n-

octanol/water

: Pow: estimated < 1

Viscosity

Viscosity, kinematic : estimated 63.5 mm2/s (40 °C / 104 °F)

estimated 268.5 mm2/s (15.5 °C / 59.9 °F)

Method: ASTM D 445

### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reac-

tions

: Hazardous polymerisation does not occur.

Conditions to avoid : Extremes of temperature and direct sunlight.

Incompatible materials : Reactive with oxidising agents.

Hazardous decomposition : May release COx, SOx, H2S, hydrocarbons, smoke and irritat-

products ing vapours when heated to decomposition.

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

# Information on likely routes of exposure

Inhalation Eye contact Skin contact Ingestion

### **Acute toxicity**

### **Product:**

Acute oral toxicity : Remarks: Based on available data, the classification criteria

are not met.

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Acute inhalation toxicity : Remarks: Based on available data, the classification criteria

are not met.

Acute dermal toxicity : Remarks: Based on available data, the classification criteria

are not met.

**Components:** 

isopentane:

Acute inhalation toxicity : LC50 (Rat): 280 mg/l

Exposure time: 4 h
Test atmosphere: vapour

pentane:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg,

Acute inhalation toxicity : LC50 (Rat): 364 mg/l

Exposure time: 4 h
Test atmosphere: vapour

n-hexane:

Acute oral toxicity : LD50 (Rat): 15,840 mg/kg,

Acute inhalation toxicity : LC50 (Rat): 48000 ppm

Exposure time: 4 h

Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): > 3,295 mg/kg,

butane:

Acute inhalation toxicity : LC50 (Rat): 658 mg/l

Exposure time: 4 h Test atmosphere: gas

xylene:

Acute oral toxicity : LD50 (Rat): 4,300 mg/kg,

Acute inhalation toxicity : LC50 (Rat): 5000 ppm

Exposure time: 4 h

Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): > 1,700 mg/kg,

isobutane:

Acute inhalation toxicity : LC50 (Rat): 658,000 mg/m3

Exposure time: 4 h Test atmosphere: gas

sulfur:

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg,

benzene:

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Acute oral toxicity : LD50 (Rat): 2,990 mg/kg,

Acute inhalation toxicity : LC50 (Rat): 13700 ppm

Exposure time: 4 h
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): > 8,240 mg/kg,

toluene:

Acute oral toxicity : LD50 (Rat): 5,580 mg/kg,

Acute inhalation toxicity : LC50 (Rat): 7585 ppm

Exposure time: 4 h

Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): 12,125 mg/kg,

ethylbenzene:

Acute oral toxicity : LD50 (Rat): 3,500 mg/kg,

Acute inhalation toxicity : LC50 (Rat): 4000 ppm

Exposure time: 4 h
Test atmosphere: vapor

Acute dermal toxicity : LD50 (Rabbit): 15,380 mg/kg,

### Skin corrosion/irritation

**Product:** 

Remarks: Causes skin irritation.

# Serious eye damage/eye irritation

**Product:** 

Remarks: Causes serious eye irritation.

### Respiratory or skin sensitisation

**Product:** 

Remarks: Based on available data, the classification criteria are not met.

### Germ cell mutagenicity

**Product:** 

Germ cell mutagenicity- May cause genetic defects.

Assessment Carcinogenicity

Product:

Carcinogenicity - As-

May cause cancer.

sessment





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### Reproductive toxicity

**Product:** 

Reproductive toxicity -

Suspected of damaging fertility or the unborn child.

Assessment

STOT - single exposure

**Product:** 

Remarks: May cause drowsiness or dizziness.

STOT - repeated exposure

**Product:** 

Target Organs: Immune system, Blood

Remarks: Causes damage to organs through prolonged or repeated exposure.

No data available

### **SECTION 12. ECOLOGICAL INFORMATION**

### **Ecotoxicity**

**Product:** 

Toxicity to fish

Remarks: No data available

Toxicity to daphnia and other

aquatic invertebrates

Remarks: No data available

Toxicity to algae

Remarks: No data available

Toxicity to bacteria : Remarks: No data available

**Components:** 

n-hexane:

: LC50 (Fish): 4.12 mg/l Toxicity to fish

Exposure time: 96 h

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia (water flea)): 3.87 mg/l

Exposure time: 48 h

#### Persistence and degradability

**Product:** 

Biodegradability : Remarks: No data available

### Bioaccumulative potential

No data available

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### Mobility in soil

No data available

#### Other adverse effects

No data available

### **SECTION 13. DISPOSAL CONSIDERATIONS**

### Disposal methods

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

courses or the soil.

Offer surplus and non-recyclable solutions to a licensed dis-

posal company.

Waste must be classified and labelled prior to recycling or

disposal.

Send to a licensed waste management company.

Dispose of as hazardous waste in compliance with local and

national regulations.

Dispose of product residue in accordance with the instructions

of the person responsible for waste disposal.

### **SECTION 14. TRANSPORT INFORMATION**

### International Regulations

#### IATA-DGR

UN/ID No. : UN 1267

Proper shipping name : Petroleum crude oil

Class : 3 Packing group : I

Labels : Class 3 - Flammable Liquid

: 361

Packing instruction (cargo

aircraft)

IMDG-Code

UN number : UN 1267

Proper shipping name : PETROLEUM CRUDE OIL

Class : 3
Packing group : I
Labels : 3
EmS Code : F-E, S-E
Marine pollutant : no

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

### **National Regulations**

**TDG** 

UN number : UN 1267

Proper shipping name : PETROLEUM CRUDE OIL

Class : 3
Packing group : I
Labels : 3
ERG Code : 128

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Marine pollutant : no

#### **SECTION 15. REGULATORY INFORMATION**

This product has been classified according to the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all of the information required by the HPR.

### The components of this product are reported in the following inventories:

**DSL** All components of this product are either on the Domestic Sub-

stances List (DSL), the Non-Domestic Substances List (NDSL)

or exempt.

#### **SECTION 16. OTHER INFORMATION**

For Copy of SDS : Internet: www.petro-canada.ca/msds

Canada-wide: telephone: 1-800-668-0220; fax: 1-800-837-

1228

For Product Safety Information: 1 905-804-4752

Prepared by : Product Safety: +1 905-804-4752

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