

# SAFETY DATA SHEET



## FRB (Fort hills Reduced carbon life cycle dilbit Blend)

SDS Number: 000003007393

Version: 4.0

Revision Date: 2023/08/29

Print Date: 2023/11/06

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### SECTION 1. IDENTIFICATION

Product name : FRB (Fort hills Reduced carbon life cycle dilbit Blend)

Product code : 11587

Other means of identification : No data available

#### Manufacturer or supplier's details

Company name of supplier : SUNCOR ENERGY INC.  
Address : P.O. Box 2844, 150 - 6th Avenue South-West  
Calgary, Alberta T2P 3E3  
Canada, Telephone: 1-866-786-2671

Emergency telephone : CHEMTREC: 1-800-424-9300 (toll free) or +1 703-527-3887;  
Suncor Energy: +1 403-296-3000

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

Recommended use : Refinery Feedstock

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### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with the Hazardous Products Regulations

Flammable liquids : Category 1

Skin irritation : Category 2

Germ cell mutagenicity : Category 1B

Carcinogenicity : Category 1A

Reproductive toxicity : Category 2

Specific target organ toxicity : Category 3 (Central nervous system)  
- single exposure

Specific target organ toxicity : Category 2 (Nervous system)  
- repeated exposure (Inhalation)

#### GHS label elements

# SAFETY DATA SHEET



## FRB (Fort hills Reduced carbon life cycle dilbit Blend)

SDS Number: 000003007393

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Print Date: 2023/11/06

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H224 Extremely flammable liquid and vapor.  
H315 Causes skin irritation.  
H336 May cause drowsiness or dizziness.  
H340 May cause genetic defects.  
H350 May cause cancer.  
H361 Suspected of damaging fertility or the unborn child.  
H373 May cause damage to organs (Nervous system) through prolonged or repeated exposure if inhaled.

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, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 Keep container tightly closed.  
P240 Ground and bond container and receiving equipment.  
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
P242 Use non-sparking tools.  
P243 Take action to prevent static discharges.  
P260 Do not breathe mist or vapors.  
P264 Wash skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

### Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P332 + P313 If skin irritation occurs: Get medical advice/ attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

### Storage:

P403 + P233 Store in a well-ventilated place. Keep container

# SAFETY DATA SHEET



## FRB (Fort hills Reduced carbon life cycle dilbit Blend)

SDS Number: 000003007393

Version: 4.0

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tightly closed.  
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.

### Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (%)
Bitumens	Bitumens	128683-24-9	70 - 85
Natural gas condensates; Low boiling point naphtha -unspecified	Natural gas condensates; Low boiling point naphtha - unspecified	68919-39-1	15 - 30
n-hexane	n-hexane	110-54-3	1 - 5
toluene	toluene	108-88-3	0.1 - 0.5
benzene	benzene	71-43-2	0.1 - 0.2

All above concentrations are percent by volume.

Typically contains 0 - 10 ppmw hydrogen sulphide in liquid phase, but may contain upto 100ppmw.

Contains trace amounts of Polycyclic aromatic hydrocarbons, some of which are suspected carcinogens.

## SECTION 4. FIRST AID MEASURES

- If inhaled : Move to fresh air.  
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,

# SAFETY DATA SHEET



## FRB (Fort hills Reduced carbon life cycle dilbit Blend)

SDS Number: 000003007393

Version: 4.0

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Print Date: 2023/11/06

- 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 physician or poison control center.  
Seek medical advice.
- Most important symptoms and effects, both acute and delayed : Respiratory, skin and eye irritation; nausea; cancer.  
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.  
Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.  
Inhalation may cause central nervous system effects.  
Symptoms of hydrogen sulphide overexposure include respiratory tract irritation and shortness of breath.  
Exposure to very high levels of hydrogen sulphide (> 500 ppm) will result in unconsciousness and death.
- Indication of immediate medical attention and special treatment needed, if necessary : Treat symptomatically.  
Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

### SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Carbon dioxide (CO<sub>2</sub>)  
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 products : Carbon oxides (CO, CO<sub>2</sub>), sulphur oxides (SO<sub>x</sub>), hydrogen sulphide (H<sub>2</sub>S), 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 fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

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

# SAFETY DATA SHEET



## FRB (Fort hills Reduced carbon life cycle dilbit Blend)

SDS Number: 000003007393

Version: 4.0

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- tive equipment and emergency procedures : Ensure adequate ventilation.  
Evacuate personnel to safe areas.  
Material can create slippery conditions.  
Mark the contaminated area with signs and prevent access to unauthorized personnel.  
Only qualified personnel equipped with suitable protective equipment may intervene.
- Environmental precautions : 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.  
Smoking, eating and drinking should be prohibited in the application 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.  
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 labeled containers.  
To maintain product quality, do not store in heat or direct sunlight.  
Hydrogen sulphide may be released and collect in the vapor space of process vessels and storage tanks.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Bitumens	128683-24-9	TWA	2 mg/m <sup>3</sup>	Suncor En-

# SAFETY DATA SHEET



## FRB (Fort hills Reduced carbon life cycle dilbit Blend)

SDS Number: 000003007393

Version: 4.0

Revision Date: 2023/08/29

Print Date: 2023/11/06

			(Bitumen fume)	ergy
n-hexane	110-54-3	TWA	20 ppm	CA BC OEL
		TWA	50 ppm	CA AB OEL
		TWA	50 ppm	ACGIH
toluene	108-88-3	TWA	20 ppm	CA BC OEL
		TWAEV	20 ppm	CA QC OEL
		TWA	50 ppm	CA AB OEL
		TWA	20 ppm	ACGIH
benzene	71-43-2	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	0.5 ppm	CA QC OEL
		STEV	2.5 ppm	CA QC OEL
		TWA	0.5 ppm	CA AB OEL
		STEL	2.5 ppm	CA AB OEL
		TWA	0.5 ppm	ACGIH
		STEL	2.5 ppm	ACGIH
hydrogen sulphide	7783-06-4	C	10 ppm	CA BC OEL
		TWA	10 ppm	CA ON OEL
		STEL	15 ppm	CA ON OEL
		TWA	10 ppm 14 mg/m <sup>3</sup>	CA AB OEL
		C	15 ppm 21 mg/m <sup>3</sup>	CA AB OEL
		TWAEV	8 ppm	CA QC OEL
		C	10 ppm	CA QC OEL
		TWA	1 ppm	ACGIH
		STEL	5 ppm	ACGIH

**Engineering measures** : Adequate ventilation to ensure that Occupational Exposure Limits are not exceeded.  
Use only in well-ventilated areas.

### Personal protective equipment

**Respiratory protection** : Concentration in air determines protection needed.  
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.  
Use respiratory protection in accordance with air quality testing results and/or exposure assessment to maintain exposure below occupational exposure limits as indicated by the jurisdictional regulatory body.  
Use respiratory protection approved by accrediting institutions (NIOSH, MSHA, etc) endorsed by the jurisdictional regulatory body.

**Filter type** : Supplied air breathing apparatus with escape bottle or self-contained breathing apparatus recommended when hydrogen sulfide is present or other component airborne concen-

# SAFETY DATA SHEET



## FRB (Fort hills Reduced carbon life cycle dilbit Blend)

SDS Number: 000003007393

Version: 4.0

Revision Date: 2023/08/29

Print Date: 2023/11/06

trations exceed workplace control parameters.

Air purifying respirators with combination organic vapour/acid gas cartridges are recommended when component air concentrations are known to be below workplace control parameters.

- Hand protection  
Material : neoprene, nitrile. Consult your PPE provider for breakthrough 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 necessary.
- Eye protection : Wear face-shield and protective suit for abnormal processing 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 concentration and amount of dangerous substances, and to the specific work-place.
- Protective measures : Wash contaminated clothing before re-use.
- Hygiene measures : Remove and wash contaminated clothing and gloves, including the inside, before re-use.  
Wash face, hands and any exposed skin thoroughly after handling.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : liquid
- Color : black
- Odor : Hydrocarbon or "rotten egg" if H<sub>2</sub>S present, but odour is an unreliable warning, since it may deaden the sense of smell.
- Odor Threshold : No data available

# SAFETY DATA SHEET



## FRB (Fort hills Reduced carbon life cycle dilbit Blend)

SDS Number: 000003007393

Version: 4.0

Revision Date: 2023/08/29

Print Date: 2023/11/06

---

pH	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	< -0.5 °C Method: ASTM D7169
Flash point	:	< 1 °C  Method: ASTM D7094, closed cup
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	30 - 40 kPa  Method: ASTM D6377 [VPCR4(37.8°C/100°F)].
Relative vapor density	:	No data available
Relative density	:	0.9249
Density	:	No data available
Solubility(ies) Water solubility	:	insoluble
Partition coefficient: n-octanol/water	:	Pow: estimated < 1
Autoignition temperature	:	267 °C Method: ASTM E 659
Decomposition temperature	:	No data available
Viscosity Viscosity, kinematic	:	277 cSt ( 15.5 °C)  100 cSt ( 40 °C)  55 cSt ( 50 °C)

# SAFETY DATA SHEET



## FRB (Fort hills Reduced carbon life cycle dilbit Blend)

SDS Number: 000003007393

Version: 4.0

Revision Date: 2023/08/29

Print Date: 2023/11/06

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### SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	Hazardous polymerization does not occur.
Conditions to avoid	:	Extremes of temperature and direct sunlight.
Incompatible materials	:	Reactive with oxidising agents.
Hazardous decomposition products	:	May release COx, SOx, H2S, hydrocarbons, smoke and irritating vapours when heated to decomposition.

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Inhalation  
Eye contact  
Skin contact  
Ingestion

#### Acute toxicity

##### Product:

Acute oral toxicity	:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method Remarks: Based on available data, the classification criteria are not met.
Acute inhalation toxicity	:	Acute toxicity estimate: > 5 mg/L Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method Remarks: Based on available data, the classification criteria are not met.
Acute dermal toxicity	:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method Remarks: Based on available data, the classification criteria are not met.

#### Components:

##### **Natural gas condensates; Low boiling point naphtha -unspecified:**

Acute oral toxicity	:	LD50 (Rat): 14,000 mg/kg
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# SAFETY DATA SHEET



## FRB (Fort hills Reduced carbon life cycle dilbit Blend)

SDS Number: 000003007393

Version: 4.0

Revision Date: 2023/08/29

Print Date: 2023/11/06

Acute inhalation toxicity : LC50 (Rat): > 5.2 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

### **n-hexane:**

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

Acute inhalation toxicity : LC50 (Rat): 73680 ppm  
Exposure time: 4 h  
Test atmosphere: vapor

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

### **toluene:**

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

Acute inhalation toxicity : LC50 (Rat): > 20 mg/l  
Exposure time: 4 h  
Test atmosphere: vapor

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

### **benzene:**

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

Acute inhalation toxicity : LC50 (Rat): 13700 ppm  
Exposure time: 4 h  
Test atmosphere: vapor

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

### **Skin corrosion/irritation**

Causes skin irritation.

### **Serious eye damage/eye irritation**

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

### **Respiratory or skin sensitization**

#### **Skin sensitization**

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

#### **Respiratory sensitization**

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

### **Germ cell mutagenicity**

May cause genetic defects.

# SAFETY DATA SHEET



## FRB (Fort hills Reduced carbon life cycle dilbit Blend)

SDS Number: 000003007393

Version: 4.0

Revision Date: 2023/08/29

Print Date: 2023/11/06

### **Carcinogenicity**

May cause cancer.

### **Reproductive toxicity**

Suspected of damaging fertility or the unborn child.

### **STOT-single exposure**

May cause drowsiness or dizziness.

### **Product:**

Target Organs : Central nervous system

### **STOT-repeated exposure**

May cause damage to organs through prolonged or repeated exposure.

### **Product:**

Target Organs : Nervous system

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## 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/aquatic plants : Remarks: No data available

Toxicity to microorganisms : Remarks: No data available

#### **Components:**

##### **n-hexane:**

Toxicity to fish : LC50 (Fish): 4.12 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia): 3.87 mg/l  
Exposure time: 48 h

### **Persistence and degradability**

#### **Product:**

Biodegradability : Remarks: No data available

# SAFETY DATA SHEET



## FRB (Fort hills Reduced carbon life cycle dilbit Blend)

SDS Number: 000003007393

Version: 4.0

Revision Date: 2023/08/29

Print Date: 2023/11/06

### Bioaccumulative potential

No data available

### Mobility in soil

No data available

### Other adverse effects

No data available

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## 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 disposal company.  
Waste must be classified and labeled 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.
- Contaminated packaging : Contact local or business unit authorities for guidance on disposal of product.

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## 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 : Flammable Liquids  
Packing instruction (cargo aircraft) : 361

#### 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

# SAFETY DATA SHEET



## FRB (Fort hills Reduced carbon life cycle dilbit Blend)

SDS Number: 000003007393

Version: 4.0

Revision Date: 2023/08/29

Print Date: 2023/11/06

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

Not applicable for product as supplied.

### Domestic regulation

#### TDG

UN number : UN 1267  
Proper shipping name : PETROLEUM CRUDE OIL  
  
Class : 3  
Packing group : I  
Labels : 3  
ERG Code : 128  
Marine pollutant : no

### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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## SECTION 15. REGULATORY INFORMATION

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**NPRI Components** : pentane  
isopentane  
butane  
n-hexane  
2-methylpentane  
methylcyclohexane  
cyclohexane  
n-heptane  
3-methylpentane  
Methylcyclopentane  
n-octane  
toluene  
isobutane  
Nonane  
2,2-dimethylbutane  
benzene  
2,3-dimethylbutane  
hydrogen sulphide

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

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

### Canadian lists

No substances are subject to a Significant New Activity Notification.

## FRB (Fort hills Reduced carbon life cycle dilbit Blend)

SDS Number: 000003007393

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Revision Date: 2023/08/29

Print Date: 2023/11/06

### SECTION 16. OTHER INFORMATION

#### Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
CA AB OEL	:	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
CA BC OEL	:	Canada. British Columbia OEL
CA ON OEL	:	Ontario Table of Occupational Exposure Limits made under the Occupational Health and Safety Act.
CA QC OEL	:	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
CA AB OEL / STEL	:	Short term exposure limit
CA AB OEL / TWA	:	Time weighted average
CA AB OEL / TWA	:	8-hour time weighted average
CA AB OEL / TWA	:	Time-Weighted Average Limit (TWA)
CA AB OEL / C	:	Ceiling
CA BC OEL / TWA	:	8-hour time weighted average
CA BC OEL / STEL	:	short-term exposure limit
CA BC OEL / C	:	ceiling limit
CA ON OEL / TWA	:	Time-Weighted Average Limit (TWA)
CA ON OEL / STEL	:	Short-Term Exposure Limit (STEL)
CA QC OEL / TWAEV	:	Time-weighted average exposure value
CA QC OEL / STEV	:	Short-term exposure value
CA QC OEL / C	:	Ceiling

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No

# SAFETY DATA SHEET



## FRB (Fort hills Reduced carbon life cycle dilbit Blend)

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---

1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Revision Date : 2023/08/29

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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