

# Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and  
GHS

Printing date 18.09.2014

Revision: 18.09.2014

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

- **1.1 Product identifier**
- **Trade name: Petroleum Crude Oil (Sour)**
- **CAS Number:**  
8002-05-9
- **EC number:**  
232-298-5
- **Index number:**  
649-049-00-5
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Petroleum product.
- **1.3 Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**  
Merit Energy Company  
13727 Noel Road  
Dallas, TX 75240  
Phone: (231) 258-6420
- **1.4 Emergency telephone number:**  
ChemTel Inc.  
(800)255-3924, +1 (813)248-0585



## SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



health hazard

Muta. 1A H340 May cause genetic defects.

Carc. 1A H350 May cause cancer.

STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.



Acute Tox. 4 H332 Harmful if inhaled.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



T; Toxic

Carc. Cat. 2

R45-46: May cause cancer. May cause heritable genetic damage.

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 Xn; Harmful

R20-48/20/21/22: Harmful by inhalation. Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.

 F; Highly flammable

R11: Highly flammable.

· **Information concerning particular hazards for human and environment:** Not applicable.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

The substance is classified and labelled according to the CLP regulation.

· **Hazard pictograms**



GHS02 GHS07 GHS08

· **Signal word** Danger

· **Hazard-determining components of labelling:**

Petroleum  
hydrogen sulphide  
benzene

· **Hazard statements**

H225 Highly flammable liquid and vapour.  
H332 Harmful if inhaled.  
H340 May cause genetic defects.  
H350 May cause cancer.  
H372 Causes damage to organs through prolonged or repeated exposure.

· **Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P260 Do not breathe mist/vapours/spray.  
P281 Use personal protective equipment as required.  
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P314 Get medical advice/attention if you feel unwell.  
P370+P378 In case of fire: Use for extinction: Foam.  
P403+P235 Store in a well-ventilated place. Keep cool.

· **Additional information:**

Restricted to professional users.

· **Hazard description:**

· **WHMIS-symbols:**

B2 - Flammable liquid  
D2A - Very toxic material causing other toxic effects



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## · NFPA ratings (scale 0 - 4)



## · HMIS-ratings (scale 0 - 4)



\* - Indicates a long term health hazard from repeated or prolonged exposures.

## · HMIS Long Term Health Hazard Substances

Substance is listed.

## · 2.3 Other hazards

## · Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

## SECTION 3: Composition/information on ingredients

## · 3.1 Substances

## · CAS No. Description

8002-05-9 Petroleum

## · Identification number(s)

· EC number: 232-298-5

· Index number: 649-049-00-5

· Additional information: Mixture: consisting of the following components.

## · Dangerous components:

CAS: 71-43-2 EINECS: 200-753-7 Index number: 601-020-00-8	benzene T Carc. Cat. 1, Muta. Cat. 2 R45-46-48/23/24/25;  Xi R36/38;  F R11 ----- Flam. Liq. 2, H225 Muta. 1B, H340; Carc. 1A, H350; STOT RE 1, H372; Asp. Tox. 1, H304 Skin Irrit. 2, H315; Eye Irrit. 2, H319	0,1 - 2,0%
CAS: 7783-06-4 EINECS: 231-977-3 Index number: 016-001-00-4	hydrogen sulphide T+ R26;  F+ R12;  N R50 ----- Flam. Gas 1, H220 Acute Tox. 2, H330 Aquatic Acute 1, H400 Press. Gas, H280	< 1,0%

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## SECTION 4: First aid measures

- **4.1 Description of first aid measures**

- **General information:**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Take affected persons out into the fresh air.

- **After inhalation:**

Supply fresh air.

Seek immediate medical advice.

Provide oxygen treatment if affected person has difficulty breathing.

In case of irregular breathing or respiratory arrest provide artificial respiration.

In case of unconsciousness place patient stably in side position for transportation.

- **After skin contact:**

Immediately remove any clothing soiled by the product.

Immediately wash with water and soap and rinse thoroughly.

If skin irritation is experienced, consult a doctor.

- **After eye contact:**

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- **After swallowing:**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

A person vomiting while laying on their back should be turned onto their side.

- **4.2 Most important symptoms and effects, both acute and delayed**

Headache

Breathing difficulty

Dizziness

Acne

Gastric or intestinal disorders.

Nausea

Cramp

Disorientation

Unconsciousness

- **Hazards**

Danger of pulmonary oedema.

Danger of pneumonia.

Danger of impaired breathing.

Danger of convulsion.

Danger of disturbed cardiac rhythm.

Danger of cerebral oedema.

Condition may deteriorate with alcohol consumption.

Harmful if inhaled.

May cause cancer.

- **4.3 Indication of any immediate medical attention and special treatment needed**

If swallowed, gastric irrigation with added, activated carbon.

If swallowed or in case of vomiting, danger of entering the lungs.

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Do not administer preparations of the adrenalin-ephedrine-group.  
Medical supervision for at least 48 hours.  
If necessary oxygen respiration treatment.  
Later observation for pneumonia and pulmonary oedema.

## SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
  - Foam
  - Carbon dioxide
  - Gaseous extinguishing agents
  - Fire-extinguishing powder
- **For safety reasons unsuitable extinguishing agents:** Water
- **5.2 Special hazards arising from the substance or mixture**
  - In case of fire, the following can be released:
  - Carbon monoxide (CO)
  - Sulphur dioxide (SO<sub>2</sub>)
  - Under certain fire conditions, traces of other toxic gases cannot be excluded.
- **5.3 Advice for firefighters**
- **Protective equipment:**
  - Wear self-contained respiratory protective device.
  - Wear fully protective suit.
- **Additional information**
  - Eliminate all ignition sources if safe to do so.
  - Evacuate area and fight fire from from the upwind side.
  - In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

## SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
  - Use respiratory protective device against the effects of fumes/dust/aerosol.
  - Wear protective equipment. Keep unprotected persons away.
  - Keep people at a distance and stay on the windward side.
  - Ensure adequate ventilation
  - Keep away from ignition sources.
  - Protect from heat.
  - Particular danger of slipping on leaked/spilled product.
- **6.2 Environmental precautions:**
  - Do not allow to enter sewers/ surface or ground water.
  - Prevent from spreading (e.g. by damming-in or oil barriers).
  - Inform respective authorities in case of seepage into water course or sewage system.
  - Do not allow to penetrate the ground/soil.
  - In case of seepage into the ground inform responsible authorities.
- **6.3 Methods and material for containment and cleaning up:**
  - Absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders).
  - Pick up mechanically.

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- Remove from the water surface (e.g. skim or suck off).
- Send for recovery or disposal in suitable receptacles.
- Dispose contaminated material as waste according to item 13.
- Ensure adequate ventilation.
- Do not flush with water or aqueous cleansing agents
- Used rags or other cleaning materials should be soaked with water and placed in a sealed container.
- **6.4 Reference to other sections**
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

## SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
- Prevent formation of aerosols.
- Avoid splashes or spray in enclosed areas.
- Use only in well ventilated areas.
- Avoid the formation of oil haze.
- Rags, metal wools / cuttings / shavings and waste papers soaked with product must be placed in a sealed metal container rated for flammable waste.
- Take note of emission threshold.
- **Information about fire - and explosion protection:**
- Keep ignition sources away - Do not smoke.
- Protect against electrostatic charges.
- Keep respiratory protective device available.
- Fumes can combine with air to form an explosive mixture.
- Flammable gas-air mixtures may form in empty receptacles.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
- Store in a cool location.
- Provide ventilation for receptacles.
- Avoid storage near extreme heat, ignition sources or open flame.
- Use only receptacles specifically permitted for this substance/product.
- **Information about storage in one common storage facility:**
- Store away from foodstuffs.
- Store away from oxidising agents.
- **Further information about storage conditions:**
- Store in cool, dry conditions in well sealed receptacles.
- Protect from heat and direct sunlight.
- Store receptacle in a well ventilated area.
- **7.3 Specific end use(s)** No further relevant information available.

## SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

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- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**  
Not required.

### 8002-05-9 Petroleum

PEL (USA)	Long-term value: 2000 mg/m <sup>3</sup> , 500 ppm
REL (USA)	Long-term value: 350 mg/m <sup>3</sup> Ceiling limit: 1800 mg/m <sup>3</sup> *15-min.
TLV (USA)	Rubber solvent TLV withdrawn

### 71-43-2 benzene

PEL (USA)	Short-term value: 15* mg/m <sup>3</sup> , 5* ppm Long-term value: 3* mg/m <sup>3</sup> , 1* ppm *table Z-2 for exclusions in 29CFR1910,1028(d)
REL (USA)	Short-term value: 1 ppm Long-term value: 0,1 ppm See Pocket Guide App. A
TLV (USA)	Short-term value: 8 mg/m <sup>3</sup> , 2,5 ppm Long-term value: 1,6 mg/m <sup>3</sup> , 0,5 ppm Skin; BEI
EL (Canada)	Short-term value: 2,5 ppm Long-term value: 0,5 ppm Skin; ACGIH A1; IARC 1
EV (Canada)	Short-term value: 2,5 ppm Long-term value: 0,5 ppm Skin

### 7783-06-4 hydrogen sulphide

IOELV (EU)	Short-term value: 14 mg/m <sup>3</sup> , 10 ppm Long-term value: 7 mg/m <sup>3</sup> , 5 ppm
PEL (USA)	Ceiling limit: 20; 50* ppm *10-min peak; once per 8-hr shift
REL (USA)	Ceiling limit: 15* mg/m <sup>3</sup> , 10* ppm *10-min
TLV (USA)	Short-term value: 7 mg/m <sup>3</sup> , 5 ppm Long-term value: 1,4 mg/m <sup>3</sup> , 1 ppm
EL (Canada)	Ceiling limit: 10 ppm
EV (Canada)	Short-term value: 15 ppm Long-term value: 10 ppm

- **DNELs** No further relevant information available.
- **PNECs** No further relevant information available.

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· **Ingredients with biological limit values:**

**71-43-2 benzene**

BEI (USA)	25 µg/g creatinine Medium: urine Time: end of shift Parameter: S-Phenylmercapturic acid (background)
	500 µg/g creatinine Medium: urine Time: end of shift Parameter: t,t-Muconic acid (background)

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid close or long term contact with the skin.

Store protective clothing separately.

Do not inhale gases / fumes / aerosols.

· **Respiratory protection:**



Combined Organic Vapor and Particulate Respirator is recommended for use during all processing activities.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:**

Nitrile rubber, NBR

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Neoprene gloves

PVC gloves

- **Eye protection:**



Safety glasses

- **Body protection:**

Oil resistant protective clothing



Boots

Full head, face and neck protection

- **Limitation and supervision of exposure into the environment**

No further relevant information available.

- **Risk management measures**

See Section 7 for additional information.

No further relevant information available.

## SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

- **Form:**

Liquid

- **Colour:**

Dark brown

- **Odour:**

Characteristic

Petroleum-like

- **Odour threshold:**

Not determined.

- **pH-value:**

Not determined.

- **Change in condition**

- **Melting point/Melting range:**

Not Determined.

- **Boiling point/Boiling range:**

Boiling Point Range: 100 - 1000 ° F / 37,8 - 538 °C.

- **Flash point:**

Flash Point Range: 50 - 200 ° F / 10 - 93,3 °C.

- **Flammability (solid, gaseous):**

Not applicable.

- **Auto/Self-ignition temperature:**

Not determined.

- **Decomposition temperature:**

Not determined.

- **Self-igniting:**

Not determined.

- **Danger of explosion:**

Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

- **Explosion limits:**

- **Lower:**

Not determined.

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<b>Upper:</b>	Not determined.
· <b>Vapour pressure:</b>	Not determined.
· <b>Density at 20 °C:</b>	0,8 - 1,0 g/cc
· <b>Relative density</b>	Not determined.
· <b>Vapour density at 20 °C</b>	> 1 g/cc
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with water:</b>	Insoluble.
· <b>Partition coefficient (n-octanol/water) at 20 °C:</b>	>3,0 log POW (Estimate)
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
· <b>9.2 Other information</b>	No further relevant information available.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions**  
Flammable.  
Can react violently with oxygen rich (oxidising) material. Danger of Explosion.  
Develops readily flammable gases/fumes.  
Toxic fumes may be released if heated above the decomposition point.  
Used empty containers may contain product gases which form explosive mixtures with air.  
Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised.
- **10.4 Conditions to avoid**  
Keep ignition sources away - Do not smoke.  
Store away from oxidising agents.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**  
Carbon monoxide and carbon dioxide  
Hydrocarbons  
Sulphur oxides (SO<sub>x</sub>)  
Hydrogen sulphide

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity:

#### LD/LC50 values relevant for classification:

##### 71-43-2 benzene

Oral	LD50	4894 mg/kg (rat)
Dermal	LD50	48 mg/kg (mouse)
Inhalative	LC50/4h	9980 mg/l (mouse)

##### 7783-06-4 hydrogen sulphide

Inhalative	LC50/4h	444 ppm (rat)
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#### Primary irritant effect:

· **on the skin:** Slight irritant effect on skin and mucous membranes.

· **on the eye:** Slight irritant effect on eyes.

· **Sensitisation:** No sensitising effects known.

#### Subacute to chronic toxicity:

Inhalation of concentrated vapours as well as oral intake will lead to anaesthesia-like conditions and headache, dizziness, etc.

#### Additional toxicological information:

Toxic and/or corrosive effects may be delayed up to 48 hours.

May cause acne.

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

Carcinogenic.

May cause genetic defects.

#### Acute effects (acute toxicity, irritation and corrosivity):

Vapours have narcotic effect.

Danger through skin adsorption.

Harmful if inhaled.

May be harmful in contact with skin.

· **Repeated dose toxicity:** Causes damage to organs through prolonged or repeated exposure.

#### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):

Muta. 1A, Carc. 1A

## SECTION 12: Ecological information

### 12.1 Toxicity

· **Aquatic toxicity:** The material is harmful to the environment.

### 12.2 Persistence and degradability

The product is partially biodegradable. Significant residuals remain.

Moderately/partly eliminable from water.

· **12.3 Bioaccumulative potential** May be accumulated in organisms.

· **12.4 Mobility in soil** No further relevant information available.

### Ecotoxicological effects:

#### Remark:

The product is oxygen-consuming. The declared action may be partly caused by lack of oxygen.

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Due to mechanical actions of the product (e.g. agglutinations) damages may occur.

Toxic for fish

Toxic for water fleas

· **Additional ecological information:**

· **General notes:**

Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water

The product may not be released into the environment without control.

Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

The material is harmful to the environment.

Harmful to aquatic organisms

· **12.5 Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Other adverse effects** No further relevant information available.

## SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Product is recyclable as a waste oil. Deliver unused and/or contaminated product to waste oil collectors.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

## SECTION 14: Transport information

· **14.1 UN-Number**

· **DOT, ADR, IMDG, IATA**

UN1267

· **14.2 UN proper shipping name**

· **DOT**

Petroleum crude oil

· **ADR**

1267 PETROLEUM CRUDE OIL

· **IMDG, IATA**

PETROLEUM CRUDE OIL

· **14.3 Transport hazard class(es)**

· **DOT**



· **Class**

3 Flammable liquids.

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· Label

3

· ADR



· Class

3 (F1) Flammable liquids.

· Label

3

· IMDG, IATA



· Class

3 Flammable liquids.

· Label

3

· 14.4 Packing group

· DOT, ADR, IMDG, IATA

II

· 14.5 Environmental hazards:

· Marine pollutant:

No

· 14.6 Special precautions for user

Warning: Flammable liquids.

· Danger code (Kemler):

36

· EMS Number:

F-E,S-E

· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

· Transport/Additional information:

· ADR

· Limited quantities (LQ)

1L

· Transport category

2

· Tunnel restriction code

D/E

· UN "Model Regulation":

UN1267, PETROLEUM CRUDE OIL, 3, II

## SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

· United States (USA)

· SARA

· Section 355 (extremely hazardous substances):

7783-06-4 | hydrogen sulphide

· Section 313 (Specific toxic chemical listings):

71-43-2 | benzene

· TSCA (Toxic Substances Control Act):

Substance is listed.

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· **Proposition 65 (California):**

· **Chemicals known to cause cancer:**

71-43-2	benzene
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· **Chemicals known to cause reproductive toxicity for females:**

Substance is not listed.	
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· **Chemicals known to cause reproductive toxicity for males:**

71-43-2	benzene
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· **Chemicals known to cause developmental toxicity:**

71-43-2	benzene
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· **Carcinogenic Categories**

· **EPA (Environmental Protection Agency)**

71-43-2	benzene	A, K/L
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7783-06-4	hydrogen sulphide	I
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· **IARC (International Agency for Research on Cancer)**

8002-05-9	Petroleum	3
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71-43-2	benzene	1
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· **TLV (Threshold Limit Value established by ACGIH)**

71-43-2	benzene	A1
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· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

71-43-2	benzene
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· **Canada**

· **Canadian Domestic Substances List (DSL)**

Substance is listed.	
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· **Canadian Ingredient Disclosure list (limit 0.1%)**

71-43-2	benzene
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· **Canadian Ingredient Disclosure list (limit 1%)**

Substance is not listed.	
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· **Information about limitation of use:**

Workers are not allowed to be exposed to this hazardous material. Exceptions can be made by the authorities in certain cases.

· **Other regulations, limitations and prohibitive regulations**

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

· **Substances of very high concern (SVHC) according to REACH, Article 57**

Substance is not listed.	
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· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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## SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

### Relevant phrases

H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H340	May cause genetic defects.
H350	May cause cancer.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
.....	
R11	Highly flammable.
R12	Extremely flammable.
R26	Very toxic by inhalation.
R36/38	Irritating to eyes and skin.
R45	May cause cancer.
R46	May cause heritable genetic damage.
R48/23/24/25	Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.
R50	Very toxic to aquatic organisms.
R65	Harmful: may cause lung damage if swallowed.

### Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 IMDG: International Maritime Code for Dangerous Goods  
 DOT: US Department of Transportation  
 IATA: International Air Transport Association  
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
 ACGIH: American Conference of Governmental Industrial Hygienists  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 NFPA: National Fire Protection Association (USA)  
 HMIS: Hazardous Materials Identification System (USA)  
 WHMIS: Workplace Hazardous Materials Information System (Canada)  
 DNEL: Derived No-Effect Level (REACH)  
 PNEC: Predicted No-Effect Concentration (REACH)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 Flam. Gas 1: Flammable gases, Hazard Category 1  
 Press. Gas: Gases under pressure: Compressed gas  
 Flam. Liq. 2: Flammable liquids, Hazard Category 2  
 Acute Tox. 2: Acute toxicity, Hazard Category 2  
 Acute Tox. 4: Acute toxicity, Hazard Category 4  
 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2  
 Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2  
 Muta. 1A: Germ cell mutagenicity, Hazard Category 1A  
 Muta. 1B: Germ cell mutagenicity, Hazard Category 1B

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**Safety Data Sheet**  
according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and  
GHS

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**Trade name: Petroleum Crude Oil (Sour)**

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Carc. 1A: Carcinogenicity, Hazard Category 1A  
STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1  
Asp. Tox. 1: Aspiration hazard, Hazard Category 1  
Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1

**Sources**

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