## **Material Safety Data Sheet**

According to the Controlled Product Regulations

### 1. MATERIAL AND COMPANY IDENTIFICATION

Material Name : Regular Ethanol Gasoline DCA

Uses : Fuel for spark ignition engines designed to run on unleaded

fuel.

Product Code : 002D2074

Manufacturer/Supplier : Shell Canada Products

400 - 4th Avenue S.W Calgary AB T2P 0J4

Canada

**Telephone** : (+1) 8006611600 **Fax** : (+1) 4033848345

**Emergency Telephone Number** 

: Shell Canada: (+1) 800-661-7378 CANUTEC (24 hr): (+1) 613-996-6666

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

**Preparation Description**: Complex mixture of hydrocarbons consisting of paraffins,

cycloparaffins, aromatic and olefinic hydrocarbons with carbon numbers predominantly in the C4 to C12 range. Includes benzene at 1.5% v/v maximum. Contains oxygenated hydrocarbons, including ethanol or other alcohols. May also

contain several additives at <0.1% v/v each.

# **WHMIS Controlled Ingredients**

Chemical Identity	CAS No.	Conc. W/W
Gasoline, low boiling point naphtha	86290-81-5	90.00- 100.00 %
Ethanol	64-17-5	0.00- 10.00 %

Contains Benzene, CAS # 71-43-2.

Contains Toluene, CAS # 108-88-3.

Contains Ethylbenzene, CAS # 100-41-4.

Contains n-Hexane, CAS # 110-54-3.

Contains Xylene (Mixed Isomers), CAS # 1330-20-7.

Contains Naphthalene, CAS # 91-20-3.

Contains Cyclohexane, CAS# 110-82-7.

Contains Tri-methyl-benzene (all isomers), CAS# 25551-13-7.

The amount of oxygenated components is limited at 2.7 % m/m calculated as oxygen.

Dyes and markers can be used to indicate tax status and prevent fraud.

Refer to Chapter 8 for Occupational Exposure Guidelines.

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### 3. HAZARDS IDENTIFICATION









WHMIS Class/Description Class B2 Flammable Liquid

> Class D2A Other Toxic Effects - Carcinogen/Mutagen Class D2A Other Toxic Effects - Reproductive Toxicity

Class D2B Other Toxic Effects - Skin Irritant Class D2B Other Toxic Effects - Narcotic effects.

**Health Hazards** Vapours may cause drowsiness and dizziness. Slightly

> irritating to respiratory system. Irritating to skin. Moderately irritating to eyes. Harmful: may cause lung damage if swallowed. Possibility of organ or organ system damage from prolonged exposure; see Chapter 11 for details. Target

> organ(s): Blood-forming organs. Peripheral nervous system. May cause heritable genetic damage. Possible risk of harm to the unborn child. A component or components of this material may cause cancer. This product contains benzene which may cause leukaemia (AML - acute myelogenous leukaemia).

Signs and Symptoms Skin irritation signs and symptoms may include a burning

sensation, redness, swelling, and/or blisters. If material enters lungs, signs and symptoms may include coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath, and/or fever. The onset of respiratory symptoms may be delayed for several hours after exposure. Breathing of high vapour concentrations may cause central nervous system (CNS) depression resulting in dizziness, light-headedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness and death. Damage to blood-forming organs may be evidenced by: a) fatigue and anemia (RBC), b) decreased resistance to infection, and/or excessive bruising and bleeding (platelet effect). Peripheral nerve damage may be evidenced by impairment of motor function (incoordination, unsteady walk, or muscle weakness in the extremities, and/or loss of sensation in the arms and legs).

sensation and a temporary redness of the eye. Auditory system effects may include temporary hearing loss and/or ringing in

Eye irritation signs and symptoms may include a burning

Extremely flammable. Electrostatic charges may be generated during handling. Electrostatic discharge may cause fire. Liquid evaporates quickly and can ignite leading to a flash fire, or an

explosion in a confined space.

Toxic to aquatic organisms. May cause long-term adverse

effects in the environment. Unlike other gasoline components.

ethanol is miscible with water.

**Environmental Hazards** 

**Safety Hazards** 

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**Additional Information** This product is intended for use in closed systems only.

### 4. FIRST AID MEASURES

Inhalation : Remove to fresh air. If rapid recovery does not occur, transport

to nearest medical facility for additional treatment.

**Skin Contact** : Remove contaminated clothing. Immediately flush skin with

large amounts of water for at least 15 minutes, and follow by washing with soap and water if available. If redness, swelling, pain and/or blisters occur, transport to the nearest medical facility for additional treatment. When using high pressure equipment, injection of product under the skin can occur. If high pressure injuries occur, the casualty should be sent immediately to a hospital. Do not wait for symptoms to develop.

**Eye Contact** Flush eyes with water while holding eyelids open. Rest eyes for

> 30 minutes. If redness, burning, blurred vision, or swelling persist transport to the nearest medical facility for additional

treatment.

Ingestion : If swallowed, do not induce vomiting: transport to nearest

> medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. If any of the following delayed signs and symptoms appear within the next 6 hours, transport to the nearest medical facility: fever greater than 101° F (38.3°C), shortness of breath, chest

congestion or continued coughing or wheezing.

Advice to Physician Treat symptomatically. Persons on disulfiram (Antabuse®)

therapy should be aware that the ethyl alcohol in this product is

hazardous to them just as is alcohol from any source.

Disulfiram reactions (vomiting, headache and even collapse) may follow ingestion of small amounts of alcohol and have also

been described from skin contact.

### 5. FIRE FIGHTING MEASURES

Clear fire area of all non-emergency personnel.

 $: < -40 \, ^{\circ}\text{C} / < -40 \, ^{\circ}\text{F}$ Flash point

Upper / lower : 1 - 8 %(V)

Flammability or

**Explosion limits** 

Auto ignition temperature : > 250 °C / 482 °F

**Hazardous Combustion Products and Specific** 

Hazards

: Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases

(smoke). Carbon monoxide. Unidentified organic and inorganic compounds. The vapour is heavier than air, spreads along the ground and distant ignition is possible. Will float and can be

reignited on surface water.

Suitable Extinguishing

Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

**Unsuitable Extinguishing** Do not use direct water jets on the burning product as they

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**Media** could cause a steam explosion and spread of the fire.

Simultaneous use of foam and water on the same surface is to

be avoided as water destroys the foam.

Protective Equipment for

Firefighters

Additional Advice

Proper protective equipment including breathing apparatus must be worn when approaching a fire in a confined space.

Keep adjacent containers cool by spraying with water. If possible remove containers from the danger zone. If the fire cannot be extinguished the only course of action is to evacuate immediately. Contain residual material at affected sites to prevent material from entering drains (sewers), ditches, and

waterways.

### 6. ACCIDENTAL RELEASE MEASURES

Protective Measures : Vapour can travel for considerable distances both above and

below the ground surface. Underground services (drains, pipelines, cable ducts) can provide preferential flow paths. Do not breathe fumes, vapour. Take measures to minimise the effects on groundwater. Contain residual material at affected sites to prevent material from entering drains (sewers), ditches, and waterways. Shut off leaks, if possible without personal

risks. Remove all possible sources of ignition in the

surrounding area. Use appropriate containment (of product and fire fighting water) to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers. Attempt to disperse the vapour or to direct its flow to a safe location for example by using fog sprays. Take precautionary measures against static discharge. Ensure electrical continuity by

bonding and grounding (earthing) all equipment.

Clean Up Methods : For large liquid spills (> 1 drum), transfer by mechanical means

such as vacuum truck to a salvage tank for recovery or safe disposal. Do not flush away residues with water. Retain as contaminated waste. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely.

Remove contaminated soil and dispose of safely.

For small liquid spills (< 1 drum), transfer by mechanical means to a labelled, sealable container for product recovery or safe disposal. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove

contaminated soil and dispose of safely.

Additional Advice : Notify authorities if any exposure to the general public or the

environment occurs or is likely to occur. Local authorities should be advised if significant spillages cannot be contained. Maritime spillages should be dealt with using a Shipboard Oil Pollution Emergency Plan (SOPEP), as required by MARPOL

Annex 1 Regulation 26.

### 7. HANDLING AND STORAGE

General Precautions : Avoid breathing vapours or contact with material. Only use in

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well ventilated areas. Wash thoroughly after handling. For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material. Air-dry contaminated clothing in a well-ventilated area before laundering. Properly dispose of any contaminated rags or cleaning materials in order to prevent fires. Prevent spillages. Turn off all battery operated portable electronic devices (examples include: cellular phones, pagers and CD players) before operating gasoline pump. Do not use as a cleaning solvent or other non-motor fuel uses. Contaminated leather articles including shoes cannot be decontaminated and should be destroyed to prevent reuse. For comprehensive advice on handling, product transfer, storage and tank cleaning refer to the product supplier.

Vehicle fueling and vehicle workshop areas - Avoid inhalation of vapours and contact with skin, when filling or emptying a

vehicle.

When using do not eat or drink. Extinguish any naked flames. Do not smoke. Remove ignition sources. Avoid sparks. Never siphon by mouth. The vapour is heavier than air, spreads along the ground and distant ignition is possible. Avoid exposure.

Drum and small container storage: Keep containers closed when not in use. Drums should be stacked to a maximum of 3 high. Packaged product must be kept tightly closed and stored in a diked (bunded) well-ventilated area, away from, ignition sources and other sources of heat. Use properly labelled and closeable containers. Take suitable precautions when opening sealed containers, as pressure can build up during storage. Tank storage: Tanks must be specifically designed for use with this product. Bulk storage tanks should be diked (bunded). Locate tanks away from heat and other sources of ignition. Cleaning, inspection and maintenance of storage tanks is a specialist operation, which requires the implementation of strict

procedures and precautions.

Electrostatic charges may be generated during pumping. Electrostatic discharge may cause fire. Ensure electrical

continuity by bonding and grounding (earthing) all equipment. Restrict line velocity during pumping in order to avoid

generation of electrostatic discharge (<= 1 m/sec until fill pipe submerged to twice its diameter, then <= 7 m/sec). Avoid

splash filling. Do NOT use compressed air for filling, discharging, or handling operations. Wait 2 minutes after tank

filling (for tanks such as those on road tanker vehicles) before opening hatches or manholes. Wait 30 minutes after tank filling (for large storage tanks) before opening hatches or manholes.

For containers, or container linings use mild steel, stainless steel. Aluminium may also be used for applications where it does not present an unnecessary fire hazard. Examples of

Handling

Storage

**Product Transfer** 

**Recommended Materials** 

# **Material Safety Data Sheet**

**Unsuitable Materials** 

According to the Controlled Product Regulations

suitable materials are: high density polyethylene (HDPE), polypropylene (PP), and Viton (FKM), which have been specifically tested for compatibility with this product. For container linings, use amine-adduct cured epoxy paint. For seals and gaskets use: graphite, PTFE, Viton A, Viton B. Some synthetic materials may be unsuitable for containers or

container linings depending on the material specification and intended use. Examples of materials to avoid are: natural rubber (NR), nitrile rubber (NBR), ethylene propylene rubber (EPDM), polymethyl methacrylate (PMMA), polystyrene, polyvinyl chloride (PVC), polyisobutylene. However, some may

be suitable for glove materials.

Container Advice : Containers, even those that have been emptied, can contain

explosive vapours. Do not cut, drill, grind, weld or perform similar operations on or near containers. Gasoline containers

must not be used for storage of other products.

**Additional Information** : Ensure that all local regulations regarding handling and storage

facilities are followed.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

If the American Conference of Governmental Industrial Hygienists (ACGIH) value is provided on this document, it is provided for information only.

### **Occupational Exposure Limits**

Material	Source	Туре	ppm	mg/m3	Notation
Ethanol	ACGIH	STEL	1,000 ppm		
Naphthalen e	ACGIH	TWA	10 ppm		
	ACGIH	STEL	15 ppm		
	ACGIH	SKIN_DES			Can be absorbed through the skin.
Cyclohexan e	ACGIH	TWA	100 ppm		
Xylene	ACGIH	TWA	100 ppm		
	ACGIH	STEL	150 ppm		
Toluene	ACGIH	TWA	20 ppm		
Benzene	ACGIH	TWA	0.5 ppm		
	ACGIH	STEL	2.5 ppm		

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	ACGIH	SKIN_DES			Can be absorbed through the skin.
	SHELL IS	TWA	0.5 ppm	1.6 mg/m3	
	SHELL IS	STEL	2.5 ppm	8 mg/m3	
n-hexane	ACGIH	TWA	50 ppm		
	ACGIH	SKIN_DES			Can be absorbed through the skin.
Ethylbenze ne	ACGIH	TWA	20 ppm		
Trimethylbe nzene, all isomers	ACGIH	TWA	25 ppm		
Gasoline, low boiling point naphtha	ACGIH	TWA	300 ppm		
	ACGIH	STEL	500 ppm		

Consult local authorities for acceptable exposure limits within their jurisdiction.

**Additional Information** 

: SHELL IS is the Shell Internal Standard. Skin notation means that significant exposure can also occur by absorption of liquid through the skin and of vapour through the eyes or mucous membranes.

Biological Exposure Index (BEI) - See reference for full details

Material	Determinant	Sampling Time	BEI	Reference
Benzene	S- Phenylmercaptu ric acid in Creatinine in urine	Sampling time: End of shift.	25 μg/g	ACGIH BEL (2011)
	t,t-Muconic acid in Creatinine in urine	Sampling time: End of shift.	500 μg/g	ACGIH BEL (2011)
n-hexane	2,5-Hexanedion, without hydrolysis in Urine	Sampling time: End of shift at end of work week.	0.4 mg/l	ACGIH BEL (2011)

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Toluene	toluene in Urine	Sampling time: End of shift.	0.03 mg/l	ACGIH BEL (2011)
	toluene in Blood	Sampling time: Prior to last shift of work week.	0.02 mg/l	ACGIH BEL (2011)
	o-Cresol, with hydrolysis in Creatinine in urine	Sampling time: End of shift.	0.3 mg/g	ACGIH BEL (2011)
Ethylbenzene	Sum of mandelic acid and phenylglyoxylic acid in Creatinine in urine	Sampling time: End of shift at end of work week.	0.7 g/g	ACGIH BEL (12 2010)
	Ethyl benzene in End-exhaled air	Sampling time: Not critical.		ACGIH BEL (12 2010)
Xylene	Methylhippuric acids in Creatinine in urine	Sampling time: End of shift.	1.5 g/g	ACGIH BEL (2011)
Naphthalene	1- Hydroxypyrene, with hydrolysis (1-HP) in Urine	Sampling time: End of shift at end of work week.		ACGIH BEL (2008)

**Exposure Controls** 

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include: Use sealed systems as far as possible. Adequate explosion-proof ventilation to control airborne concentrations below the exposure guidelines/limits. Local exhaust ventilation is recommended. Eye washes and showers for emergency use.

Personal Protective Equipment

**Respiratory Protection** 

Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers. If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific

respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of

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## **Material Safety Data Sheet**

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mask and filter. Where air-filtering respirators are unsuitable (e.g. airborne concentrations are high, risk of oxygen

deficiency, confined space) use appropriate positive pressure breathing apparatus. All respiratory protection equipment and

use must be in accordance with local regulations.

**Hand Protection** : Personal hygiene is a key element of effective hand care.

Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Select gloves tested to a relevant standard (e.g. Europe EN374, US F739). When prolonged or frequent repeated contact occurs, Nitrile gloves may be suitable. (Breakthrough time of > 240 minutes.) For incidental contact/splash protection Neoprene,

PVC gloves may be suitable.

**Eye Protection** : Chemical splash goggles (chemical monogoggles). Approved

to EU Standard EN166.

**Protective Clothing** : Chemical resistant gloves/gauntlets, boots, and apron (where

risk of splashing).

**Monitoring Methods** : Monitoring of the concentration of substances in the breathing

zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also

be appropriate.

**Environmental Exposure** 

**Controls** 

: Local guidelines on emission limits for volatile substances must

be observed for the discharge of exhaust air containing vapour.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Pale straw. Liquid.
Odour : Hydrocarbon.
Odour threshold : < 0.25 ppm
pH : Not applicable.

Initial Boiling Point and

**Boiling Range** 

: 25 - 210 °C / 77 - 410 °F

Freezing Point : Data not available

Vapour pressure : < 107 kPa

Specific gravity : 0.74

Density : ca. 0.78 g/cm3 at 15 °C / 59 °F

n-octanol/water partition : 2 - 7

coefficient (log Pow)

Kinematic viscosity : < 1 mm2/s at 40 °C / 104 °F

Vapour density (air=1) : 3.5

Evaporation rate (nBuAc=1) : Data not available

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### 10. STABILITY AND REACTIVITY

**Stability** : Stable under normal conditions of use.

**Conditions to Avoid** : Avoid heat, sparks, open flames and other ignition sources.

Materials to Avoid : Strong oxidising agents.

Hazardous : Hazardous decomposition products are not expected to form

**Decomposition Products** during normal storage. Thermal decomposition is highly

dependent on conditions. A complex mixture of airborne solids, liquids and gases, including carbon monoxide, carbon dioxide and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative

degradation.

Hazardous : No

**Polymerisation** 

Sensitivity to Mechanical : No

**Impact** 

Sensitivity to Static

Discharge

: No : Yes

### 11. TOXICOLOGICAL INFORMATION

Basis for Assessment : Information given is based on product data, a knowledge of the

components and the toxicology of similar products.

Acute Oral Toxicity : Low toxicity: LD50 >2000 mg/kg , Rat.

Aspiration into the lungs when swallowed or vomited may

cause chemical pneumonitis which can be fatal.

Acute Dermal Toxicity : Low toxicity: LD50 >2000 mg/kg , Rabbit.

Acute Inhalation Toxicity : Low toxicity: LC50 >5 mg/l , 4 h , Rat.

High concentrations may cause central nervous system

depression resulting in headaches, dizziness and nausea; continued inhalation may result in unconsciousness and/or

death.

**Skin Irritation** : Irritating to skin.

**Eye Irritation** : Moderately irritating to eyes (but insufficient to classify). **Respiratory Irritation** : Based on human experience, breathing of vapours or m

: Based on human experience, breathing of vapours or mists may cause a temporary burning sensation to nose, throat and

lungs.

**Sensitisation** : Not expected to be a sensitiser.

Repeated Dose Toxicity : Kidney: caused kidney effects in male rats which are not

considered relevant to humans

Blood-forming organs: repeated exposure affects the bone

marrow. (Benzene)

Peripheral nervous system: repeated exposure causes

peripheral neuropathy in animals. (n-hexane)

Mutagenicity : May cause heritable genetic damage. (Benzene) Mutagenicity

studies on gasoline and gasoline blending streams have shown

predominantly negative results.

Carcinogenicity : Known human carcinogen. (Benzene) May cause leukaemia

(AML - acute myelogenous leukemia). (Benzene) Inhalation

exposure to mice causes liver tumours, which are not

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considered relevant to humans.

Reproductive and Developmental Toxicity

Causes foetotoxicity at doses which are maternally toxic.

(Toluene)

Causes adverse effects on the foetus based on animal studies.

(Toluene)

Many case studies involving abuse during pregnancy indicate that toluene can cause birth defects, growth retardation and

learning difficulties. (Toluene)

Ethanol, a component of this material, may cause birth defects

and/or miscarriages following high oral doses.

Additional Information : Exposure to very high concentrations of similar materials has

been associated with irregular heart rhythms and cardiac

arrest.

Prolonged and repeated exposures to high concentrations have resulted in hearing loss in rats. Solvent abuse and noise interaction in the work environment may cause hearing loss. Abuse of vapours has been associated with organ damage and

death.

May cause MDS (Myelodysplastic Syndrome).

### 12. ECOLOGICAL INFORMATION

Microorganisms

**Algae** 

Incomplete ecotoxicological data are available for this substance.

Acute Toxicity : Toxic:LL/EL/IL50 1-10 mg/l(to aquatic organisms)(LL/EL50

expressed as the nominal amount of product required to

prepare aqueous test extract).

Fish : Expected to be toxic: LL/EL/IL50 1-10 mg/l Aquatic Invertebrates : Expected to be toxic: LL/EL/IL50 1-10 mg/l

Expected to be toxic: LL/EL/IL50 1-10 mg/l
Expected to be toxic: LL/EL/IL50 1-10 mg/l
Expected to be harmful: LL/EL/IL50 10-100 mg/l

Mobility : Floats on water. Evaporates within a day from water or soil

surfaces. Large volumes may penetrate soil and could contaminate groundwater. Contains volatile constituents.

Persistence/degradability : Major constituents are expected to be inherently

biodegradable. The volatile constituents will oxidize rapidly by

photochemical reactions in air.

**Bioaccumulation** : Expected to be inherently biodegradable. Contains constituents

with the potential to bioaccumulate.

Other Adverse Effects : Films formed on water may affect oxygen transfer and damage

organisms.

### 13. DISPOSAL CONSIDERATIONS

Material Disposal : Recover or recycle if possible. It is the responsibility of the

waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Waste arising from a spillage or tank

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cleaning should be disposed of in accordance with prevailing regulations, preferably to a recognised collector or contractor. The competence of the collector or contractor should be established beforehand. Do not dispose into the environment, in drains or in water courses. Do not dispose of tank water bottoms by allowing them to drain into the ground. This will

result in soil and groundwater contamination.

Container Disposal : Drain container thoroughly. After draining, vent in a safe place

away from sparks and fire. Residues may cause an explosion hazard. Do not, puncture, cut, or weld uncleaned drums. Send to drum recoverer or metal reclaimer. Do not pollute the soil,

water or environment with the waste container.

**Local Legislation** : Disposal should be in accordance with applicable regional,

national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and

must be complied with.

### 14. TRANSPORT INFORMATION

# **Canadian Road and Rail Shipping Classification**

UN/NA Number UN 1203
Proper shipping name GASOLINE

Class Division 3
Packing group II

Shipping Description GASOLINE, Class 3, UN 1203, PG II

Additional Information Marine pollutant

MARPOL Annex 1 rules apply for bulk shipments by sea.

#### 15. REGULATORY INFORMATION

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

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

WHMIS Class/Description : Class B2 Flammable Liquid

Class D2A Other Toxic Effects - Carcinogen/Mutagen Class D2A Other Toxic Effects - Reproductive Toxicity

Class D2B Other Toxic Effects - Skin Irritant Class D2B Other Toxic Effects - Narcotic effects.

#### 16. OTHER INFORMATION

**Additional Information** : This document contains important information to ensure the

safe storage, handling and use of this product. The information in this document should be brought to the attention of the person in your organisation responsible for advising on safety

matters.

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MSDS Effective Date : 2011-11-04

MSDS Revisions : A vertical bar (|) in the left margin indicates an amendment

from the previous version.

**MSDS Regulation** : The content and format of this (M)SDS is in accordance with

the Controlled Product Regulations.

MSDS Prepared By : Shell Product Stewardship; 1-800-661-1600

**Uses and Restrictions** : This product must not be used in applications other than those

recommended in Section 1, without first seeking the advice of the supplier. This product is not to be used as a solvent or cleaning agent; for lighting or brightening fires; as a skin cleanser. This product is designed only to suit automotive applications and no provision is made for the requirements of

aviation applications.

MSDS Distribution : The information in this document should be made available to

all who may handle the product.

**Disclaimer** : The information contained herein is based on our current

knowledge of the underlying data and is intended to describe the product for the purpose of health, safety and environmental requirements only. No warranty or guarantee is expressed or implied regarding the accuracy of these data or the results to

be obtained from the use of the product.