

**Material Safety Data Sheet****1. MATERIAL AND COMPANY IDENTIFICATION**

**Material Name** : BR CARB Gasoline with EtOH  
**Uses** : Fuel for spark ignition engines designed to run on unleaded fuel.  
**Company** : Shell Oil Products US  
P. O. Box 4453  
Houston, TX 77210-4453  
United States

**MSDS Request** : 877-276-7285

**Emergency Telephone Number**  
**Spill Information** : 877-242-7400  
**Health Information** : 877-504-9351

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS No.	Concentration
Ethanol	64-17-5	5.00 - 7.00 %
Gasoline		93.00 - 95.00 %

Contains Alkanes, Cycloalkanes, Alkenes and Aromatic Hydrocarbons, Mixture.  
Contains 1,2,4 Tri-methyl-benzene, CAS# 95-63-6  
Contains Styrene, CAS # 100-42-5.  
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 Cyclo-hexane, CAS# 110-82-7

**3. HAZARDS IDENTIFICATION**

<b>Emergency Overview</b>	
<b>Appearance and Odour</b>	: Bronze. Clear, bright liquid. Hydrocarbon.
<b>Health Hazards</b>	: Harmful: may cause lung damage if swallowed. Irritating to skin. Vapours may cause drowsiness and dizziness. A component or components of this material may cause cancer. This product contains benzene which may cause leukaemia (AML – acute myelogenous leukaemia).
<b>Safety Hazards</b>	: Extremely flammable. The vapour is heavier than air, spreads along the ground and distant ignition is possible. Electrostatic charges may be generated during handling. Electrostatic discharge may cause fire.
<b>Environmental Hazards</b>	: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Material Safety Data Sheet****Health Hazards****Inhalation**

: Vapours may cause drowsiness and dizziness. Slightly irritating to respiratory system.

**Skin Contact**

: Irritating to skin.

**Eye Contact**

: Moderately irritating to eyes.

**Ingestion**

: Harmful: may cause lung damage if swallowed.

**Other Information**

: 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. Eye irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blurred vision. 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 anaemia (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). Eye irritation signs and symptoms may include a burning sensation and a temporary redness of the eye. Auditory system effects may include temporary hearing loss and/or ringing in the ears.

**Aggravated Medical Condition**

: Pre-existing medical conditions of the following organ(s) or organ system(s) may be aggravated by exposure to this material: Blood-forming organs. Peripheral nervous system. Skin.

**Environmental Hazards**

: Toxic to aquatic organisms. May cause long-term adverse effects in the environment. Unlike other gasoline components, ethanol is miscible with water.

**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,

## Material Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR  
1910.1200

- pain and/or blisters occur, transport to the nearest medical facility for additional treatment.
- 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 (37° C), shortness of breath, chest congestion or continued coughing or wheezing.
- Advice to Physician** : Treat symptomatically. In cases of ingestion, consider gastric lavage. Gastric lavage must only be undertaken after cuffed endotracheal intubation in view of the risk of aspiration. Administration of carbon for medicinal use (carbo medicinalis) may reduce absorption from the digestive tract. 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.

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**5. FIRE FIGHTING MEASURES**

Clear fire area of all non-emergency personnel.

- Flash point** : -40 °C / -40 °F
- Explosion / Flammability limits in air** : 1.3 - 7.6 %(V)
- 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.
- Extinguishing Media** : Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
- Unsuitable Extinguishing Media** : Do not use water in a jet.
- Protective Equipment for Firefighters** : Proper protective equipment including breathing apparatus must be worn when approaching a fire in a confined space.
- Additional Advice** : 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.

## Material Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR  
1910.1200

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### 6. ACCIDENTAL RELEASE MEASURES

Avoid contact with spilled or released material. Immediately remove all contaminated clothing. For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. For guidance on disposal of spilled material see Chapter 13 of this Material Safety Data Sheet. Observe all relevant local and international regulations. Avoid contact with skin, eyes and clothing. Evacuate the area of all non-essential personnel. Ventilate contaminated area thoroughly. If contamination of sites occurs remediation may require specialist advice. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Take precautionary measures against static discharges.

- 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. U.S. regulations may require reporting releases of this material to the environment which exceed the reportable quantity (refer to Chapter 15) to the National Response Centre at (800) 424-8802. Under Section 311 of the Clean Water Act (CWA) this material is considered an oil. As such, spills into surface waters must be reported to the National Response Centre at (800) 424-8802. This material is covered by EPA's Comprehensive Environmental Response,

## Material Safety Data Sheet

BR CARB Gasoline with EtOH

MSDS# 401423E

Version 5.

Effective Date 07/25/2007

According to OSHA Hazard Communication Standard, 29 CFR  
1910.1200

Compensation and Liability Act (CERCLA) Petroleum  
Exclusion. Therefore, releases to the environment may not be  
reportable under CERCLA.

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### 7. HANDLING AND STORAGE

- General Precautions** : Avoid breathing vapours or contact with material. Only use in 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.
- Handling** : 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. Obtain special instructions before use. Not expected to be a health hazard when used under normal conditions.
- Storage** : 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.
- Product Transfer** : 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 ( $\leq 1$  m/sec until fill pipe submerged to twice its diameter, then  $\leq 7$  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

**Material Safety Data Sheet**

- Recommended Materials** : 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 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.
- Unsuitable Materials** : 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****Occupational Exposure Limits**

Material	Source	Type	ppm	mg/m3	Notation
Gasoline, low boiling point naphtha	ACGIH	TWA	300 ppm		
Gasoline, low boiling point naphtha	ACGIH	STEL	500 ppm		
Xylene	ACGIH	TWA	100 ppm		
Xylene	ACGIH	STEL	150 ppm		
Xylene	OSHA Z1	PEL	100 ppm	435 mg/m3	
Xylene	OSHA Z1A	TWA	100 ppm	435 mg/m3	
Xylene	OSHA Z1A	STEL	150 ppm	655 mg/m3	
Toluene	ACGIH	TWA	20 ppm		
Toluene	ACGIH	SKIN_DES			Can be absorbed through the skin.
Toluene	OSHA Z1A	TWA	100 ppm	375 mg/m3	
Toluene	OSHA Z1A	STEL	150 ppm	560 mg/m3	
Toluene	SHELL IS	TWA	50 ppm		
1,2,4- trimethylbe nzene	ACGIH	TWA	25 ppm		

## Material Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR  
1910.1200

1,2,4-trimethylbenzene	OSHA Z1A	TWA	25 ppm	125 mg/m3	
Ethylbenzene	ACGIH	TWA	100 ppm		
Ethylbenzene	ACGIH	STEL	125 ppm		
Ethylbenzene	OSHA Z1	PEL	100 ppm	435 mg/m3	
Ethylbenzene	OSHA Z1A	TWA	100 ppm	435 mg/m3	
Ethylbenzene	OSHA Z1A	STEL	125 ppm	545 mg/m3	
n-hexane	ACGIH	TWA	50 ppm		
n-hexane	ACGIH	SKIN_DES			Can be absorbed through the skin.
n-hexane	OSHA Z1	PEL	500 ppm	1,800 mg/m3	
n-hexane	OSHA Z1A	TWA	50 ppm	180 mg/m3	
Benzene	ACGIH	TWA	0.5 ppm		
Benzene	ACGIH	STEL	2.5 ppm		
Benzene	ACGIH	SKIN_DES			Can be absorbed through the skin.
Benzene	OSHA	REF			
Benzene	OSHA	TWA	1 ppm		
Benzene	OSHA	STEL	5 ppm		
Benzene	OSHA	OSHA_ACT	0.5 ppm		
Benzene	OSHA Z1A	TWA	1 ppm		
Benzene	OSHA Z1A	STEL	5 ppm		
Cyclohexane	ACGIH	TWA	100 ppm		
Cyclohexane	OSHA Z1	PEL	300 ppm	1,050 mg/m3	
Cyclohexane	OSHA Z1A	TWA	300 ppm	1,050 mg/m3	
Ethanol	ACGIH	TWA	1,000 ppm		
Ethanol	OSHA Z1	PEL	1,000 ppm	1,900 mg/m3	
Ethanol	OSHA Z1A	TWA	1,000 ppm	1,900 mg/m3	
Naphthalene	ACGIH	TWA	10 ppm		
Naphthalene	ACGIH	STEL	15 ppm		
Naphthalene	ACGIH	SKIN_DES			Can be absorbed through the skin.
Naphthalene	OSHA Z1	PEL	10 ppm	50 mg/m3	
Naphthalene	OSHA Z1A	TWA	10 ppm	50 mg/m3	
Naphthalene	OSHA Z1A	STEL	15 ppm	75 mg/m3	

**Material Safety Data Sheet**

- Additional Information** : 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. Shell has adopted as Interim Standards the OSHA Z1A values that were established in 1989 and later rescinded.
- 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** : Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.
- Respiratory Protection** : 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 conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of 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. Respirator selection, use and maintenance should be in accordance with the requirements of the OSHA Respiratory Protection Standard, 29 CFR 1910.134.
- 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.
- Eye Protection** : Chemical splash goggles (chemical monogoggles).
- Protective Clothing** : Chemical resistant gloves/gauntlets, boots, and apron (where risk of splashing).

**9. PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance : Bronze. Clear, bright liquid.
- Odour : Hydrocarbon.
- Freezing Point : -58 °C / -72 °F
- Flash point : -40 °C / -40 °F
- Explosion / Flammability : 1.3 - 7.6 %(V)
- limits in air
- Specific gravity : 0.72 - 0.76
- Water solubility : Negligible.



**Material Safety Data Sheet**

Vapour density (air=1) : 3.5

**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 Decomposition Products** : Hazardous decomposition products are not expected to form 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.

**11. TOXICOLOGICAL INFORMATION**

**Basis for Assessment** : Information given is based on product testing, and/or similar products, and/or components.  
**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 >20 mg/l / 1.00 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 mists may cause a temporary burning sensation to nose, throat and lungs.  
**Sensitisation** : Not a skin 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 leukaemia). (Benzene)  
Inhalation exposure to mice causes liver tumours, which are not considered relevant to humans.

Material	Carcinogenicity Classification
Gasoline, low boiling point naphtha	ACGIH Group A3: Confirmed animal carcinogen with unknown relevance to humans.

## Material Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR  
1910.1200

Gasoline, low boiling point naphtha	:	IARC 2B: Possible carcinogen.
Xylene	:	ACGIH Group A4: Not classifiable as a human carcinogen.
Xylene	:	IARC 3: Classification not possible from current data.
Toluene	:	ACGIH Group A4: Not classifiable as a human carcinogen.
Toluene	:	IARC 3: Classification not possible from current data.
Ethanol	:	ACGIH Group A4: Not classifiable as a human carcinogen.
Ethylbenzene	:	ACGIH Group A3: Confirmed animal carcinogen with unknown relevance to humans.
Ethylbenzene	:	IARC 2B: Possible carcinogen.
Benzene	:	ACGIH Group A1: Confirmed human carcinogen.
Benzene	:	NTP: Known carcinogen.
Benzene	:	IARC 1: Human carcinogen.
Benzene	:	OSHAS: Cancer hazard.
Naphthalene	:	NTP: Anticipated carcinogen.
Naphthalene	:	IARC 2B: Possible carcinogen.

<b>Reproductive and Developmental Toxicity</b>	:	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.
<b>Additional Information</b>	:	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. (Toluene) Abuse of vapours has been associated with organ damage and death. (Toluene) Myelodysplastic syndrome (MDS) was observed in individuals exposed to very high levels (50 ppm to 300 ppm range) of benzene over a long period of time in the workplace. The relevance of these results to lower levels of exposure is not known. (Benzene)

**12. ECOLOGICAL INFORMATION**

Fuels are typically made from blending several refinery streams. Ecotoxicological studies have been carried out on a variety of hydrocarbon blends and streams but not those containing additives. Information given is based on a knowledge of the components and the ecotoxicology of similar products.

<b>Acute Toxicity</b>	:	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).
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**Material Safety Data Sheet**

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

- 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** : Persists under anaerobic conditions. Major constituents are expected to be inherently biodegradable. The volatile constituents will oxidize rapidly by photochemical reactions in air.
- Bioaccumulation** : 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 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****US Department of Transportation Classification (49CFR)**

Identification number UN 1203  
 Proper shipping name Gasohol  
 Class / Division 3  
 Packing group II

Emergency Response Guide No. 128

Additional Information Oil: This product is an oil under 49CFR (DOT) Part 130. If shipped by rail or highway in a tank with a capacity of 3500 gallons or more, it is subject to these requirements. Mixtures or solutions containing 10% or more of this product may also be subject to this rule.

**Material Safety Data Sheet****IMDG**

Identification number	UN 1203
Proper shipping name	GASOLINE
Class / Division	3
Packing group	II
Marine pollutant:	No

**IATA (Country variations may apply)**

Identification number	UN 1203
Proper shipping name	Gasoline
Class / Division	3
Packing group	II

**15. REGULATORY INFORMATION**

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

**Federal Regulatory Status****Comprehensive Environmental Release, Compensation & Liability Act (CERCLA)**

BR CARB Gasoline with EtOH ( )	Reportable quantity: 83 lbs
Gasoline, low boiling point naphtha ( )	Reportable quantity: 100 lbs
Xylene (1330-20-7)	Reportable quantity: 100 lbs
Toluene (108-88-3)	Reportable quantity: 1000 lbs
Ethanol (64-17-5)	Reportable quantity: 100 lbs
Ethylbenzene (100-41-4)	Reportable quantity: 1000 lbs
n-hexane (110-54-3)	Reportable quantity: 5000 lbs
Benzene (71-43-2)	Reportable quantity: 10 lbs
Naphthalene (91-20-3)	Reportable quantity: 100 lbs
Cyclohexane (110-82-7)	Reportable quantity: 1000 lbs

Shell classifies this material as an "oil" under the CERCLA Petroleum Exclusion, therefore releases to the environment are not reportable under CERCLA.

**Clean Water Act (CWA) Section 311**

# Material Safety Data Sheet

BR CARB Gasoline with EtOH

MSDS# 401423E

Version 5.

Effective Date 07/25/2007

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Xylene (1330-20-7)	Reportable quantity: 100 lbs
Toluene (108-88-3)	Reportable quantity: 1000 lbs
Ethylbenzene (100-41-4)	Reportable quantity: 1000 lbs
Benzene (71-43-2)	Reportable quantity: 10 lbs
Naphthalene (91-20-3)	Reportable quantity: 100 lbs
Cyclohexane (110-82-7)	Reportable quantity: 1000 lbs

Under Section 311 of the Clean Water Act (CWA) this material is considered an oil. As such, spills into surface waters must be reported to the National Response Centre at (800) 424-8802.

### SARA Hazard Categories (311/312)

Immediate (Acute) Health Hazard. Delayed (Chronic) Health Hazard. Fire Hazard.

### SARA Toxic Release Inventory (TRI) (313)

Xylene (1330-20-7)	25.00%
Toluene (108-88-3)	25.00%
1,2,4-trimethylbenzene (95-63-6)	5.00%
Ethylbenzene (100-41-4)	4.50%
n-hexane (110-54-3)	3.00%
Benzene (71-43-2)	1.20%
Naphthalene (91-20-3)	1.00%
Cyclohexane (110-82-7)	1.00%

### State Regulatory Status

#### California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)

This product contains a chemical known to the State of California to cause cancer. Known to the State of California to cause birth defects or other reproductive harm.

#### New Jersey Right-To-Know Chemical List

Xylene (1330-20-7) 25.00%	Listed.
Toluene (108-88-3) 25.00%	Listed.
Ethanol (64-17-5) 7.00%	Listed.
1,2,4-trimethylbenzene (95-63-6) 5.00%	Listed.
Ethylbenzene (100-41-4) 4.50%	Listed.
n-hexane (110-54-3) 3.00%	Listed.

**Material Safety Data Sheet**

Benzene (71-43-2) 1.20%	Listed.
Naphthalene (91-20-3) 1.00%	Listed.
Cyclohexane (110-82-7) 1.00%	Listed.

**Pennsylvania Right-To-Know Chemical List**

Gasoline, low boiling point naphtha ( ) 100.00%	Listed.
Xylene (1330-20-7) 25.00%	Environmental hazard. Listed.
Toluene (108-88-3) 25.00%	Environmental hazard. Listed.
Ethanol (64-17-5) 7.00%	Listed.
1,2,4-trimethylbenzene (95-63-6) 5.00%	Environmental hazard. Listed.
Ethylbenzene (100-41-4) 4.50%	Environmental hazard. Listed.
n-hexane (110-54-3) 3.00%	Listed.
Benzene (71-43-2) 1.20%	Special hazard. Environmental hazard. Listed.
Naphthalene (91-20-3) 1.00%	Environmental hazard. Listed.
Cyclohexane (110-82-7) 1.00%	Environmental hazard. Listed.

**16. OTHER INFORMATION**

<b>Additional Information</b>	: 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.
<b>NFPA Rating (Health, Fire, Reactivity)</b>	: 1, 3, 0
<b>MSDS Version Number</b>	: 5.
<b>MSDS Effective Date</b>	: 07/25/2007
<b>MSDS Revisions</b>	: A vertical bar ( ) in the left margin indicates an amendment from the previous version.
<b>MSDS Regulation</b>	: The content and format of this MSDS is in accordance with the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
<b>MSDS Distribution</b>	: The information in this document should be made available to all who may handle the product.
<b>Disclaimer</b>	: The information contained herein is based on our current

**Material Safety Data Sheet**

**BR CARB Gasoline with EtOH**

MSDS# 401423E

Version 5.

Effective Date 07/25/2007

According to OSHA Hazard Communication Standard, 29 CFR  
1910.1200

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.