

NORTH ATLANTIC REFINING LTD.

MATERIAL SAFETY DATA SHEET

PREPARED: October 15, 2009

SECTION 1. PRODUCT INFORMATION

Product Identifier: **Gasoline, All Grades**

Application and Use: AUTOMOTIVE FUEL, INTERNAL COMBUSTION
ENGINE FUEL

Product Description: A complex mixture of aliphatic and aromatic hydrocarbons, C4-C12.

REGULATORY CLASSIFICATION

W.H.M.I.S.
CLASS B2: FLAMMABLE LIQUID
CLASS D2A: VERY TOXIC MATERIAL

MANUFACTURER/SUPPLIER:

NORTH ATLANTIC REFINING LTD. CONTACT BETWEEN
COME BY CHANCE, NFLD. A0B 1N0 07:30 - 1600 HRS N.S.T.
TEL: (709) 463-8811 (24 hrs.) Plant Industrial Hygienist
FAX: (709) 463-8076
AFTER HOURS: Plant Security

USE IN CASE OF A DANGEROUS GOODS EMERGENCY:

CANUTEC: (613) 996 6666

SECTION 2. REGULATED COMPONENT

THE FOLLOWING ARE DEFINED IN ACCORDANCE WITH SUB-PARAGRAPH 13 (a)(I) TO (iv) OR PARAGRAPH 14(a) OF THE HAZARDOUS PRODUCTS ACT:

Name	%	CAS #
CONTROLLED INGREDIENTS		
Toluene	5-10%	108883
Hexane	3-7%	110543
Ethyl Benzene	1-5%	100414
p-Xylene	1-5%	106423
m-Xylene	1-5%	108383
o-Xylene	1-5%	95476
Cyclohexane	1-5%	110827
Benzene	0.1-1.0%	71432

A complex mixture of aliphatic and aromatic hydrocarbons: C4-C12. Gasoline
LD50 (oral, rat): 14g/kg; LC50: Not avail; TWA: 300 ppm.

SECTION 3. HAZARDS IDENTIFICATION.

Potential Acute Effects:

Inhalation: Mild throat irritation, dizziness, lack of co-ordination headaches and drowsiness can occur at concentrations < 3000ppm. Higher concentrations may cause unconsciousness and pulmonary edema (lungs filling with liquid).

Eye Contact: Irritation: will not cause permanent eye damage.

Skin Contact: Mildly irritating, removes skin's natural oils causing dryness and possibly cracking. Damage is enhanced when trapped against the skin (clothing soaked in gasoline) possibly causing severe burns and skin loss.

Ingestion: The product is mildly toxic when ingested. Vomiting, stomach irritation and central nervous system depression often occur. If the product is aspirated, (enters the lungs), serious damage may occur. Chemical pneumonitis (lung irritation) and pulmonary edema may occur.

Potential Chronic Health Effects:

The International Agency for Research on Cancer (IARC) has evaluated gasoline and found it to be a possible human carcinogen.

The product contains Benzene. Human studies indicate that repeated and / or prolonged overexposures to benzene may cause damage to the blood producing system (including bone marrow) and serious blood disorders including leukemia. Benzene is a known human carcinogen.

The product contains hexane. Repeated and / or prolonged exposures may cause damage to the peripheral nervous system (e.g. fingers, hands, feet) n-Hexane has been known to cause irreversible peripheral nervous system damage with repeated prolonged exposure; this effect is dependant on the concentration of n-hexane and may be enhanced in the presence of methyl ethyl ketone or methyl isobutyl ketone.

SECTION 4. TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Odour and appearance:	ethereal odour, green tint clear liquid, may be dyed.
Odour threshold:	0.05-0.08 ppm
Specific gravity:	0.74-.76 (Water =1)
Vapour pressure:	50 to 105 kPa @ 38°C
Vapour density:	3.2 (Air=1)
Evaporation rate:	>10
Boiling point:	20-210°C
Freezing/melting point:	<-60°C
pH:	Not applicable
Coefficient of water/ oil distribution:	Not available
Solubility in water:	Slightly soluble in water, Soluble in ethers, ethanol, chloroform and other petroleum solvents.

SECTION 5. FIRST AID MEASURES

EYE CONTACT:

Check for and remove any contact lenses. Copious warm water flush: 15 minutes, Physician assessment is required.

SKIN CONTACT:

If this product soils clothing, remove the contaminated clothes as quickly as possible, protecting you own hands and body according to section 8. Flush with water followed by soap and water Remove clothing under flushing water. Seek medical advice.

INGESTION:

Ingestion is unlikely, DO NOT induce vomiting. Materials aspirated into the lungs during vomiting may cause serious complications. If vomiting - take care to prevent aspiration. Keep at rest. Physician assessment is mandatory.

INHALATION:

Allow the victim to rest in a well-ventilated area. If victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

SECTION 6. FIRE AND EXPLOSION DATA

Fire Fighting Instructions: Highly flammable liquid insoluble in water. Use water spray to cool fire-exposed surfaces and to protect personnel. Shut off fuel to fire if it is possible to do so without hazard. If a leak or spill has not ignited, use water spray to disperse the vapours. Remotely disconnect or shut off the power sources. Either, allow the fire to burn out under controlled conditions or extinguish with foam, dry chemicals or other approved extinguishing medium. Try to cover spilled liquid with foam. Respiratory, eye and body protection are required for fire fighting personnel. Response to small fire with extinguishers will usually be done upwind and only if considered safe. Personal protective equipment is usually not required when using portable extinguishers. Response to larger (catastrophic) fires should only be attempted by trained fire fighters.

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Flammability: Highly Flammable
Auto-Ignition Temperature: 224°C
Flash Point: <-30°C
Flammable Limits: lower 0.6%, upper 7.6%
Products of Combustion: CO_x, SO_x, NO_x and Smoke
Conditions of Flammability: Heat and ignition source, flame or electric spark.
Explosion Hazards: Not believed to be sensitive to mechanical agitation. . Material may accumulate a static charge

warranty, expressed or implied regarding the accuracy of these data or results to be obtained from the use thereof. North Atlantic Refining Limited assumes no responsibility for injury from the use of the product described herein.

Prepared by:
Paul Sullivan
North Atlantic Refining Limited
P.O. Box 40
Come By Chance, Newfoundland, Canada
A0B 1N0
Phone: 709-463-8811
FAX: 709-463-8076

SECTION 7. ACCIDENTAL RELEASE MEASURES

Small Spill: Absorb with an inert material and put the spilled material in an appropriate waste disposal. Wear protective clothing specified in personal protection.

Large Spill: Stop leak. Absorb spilled material with an inert material and dispose in an approved container. Seek advice from the appropriate authorities.

SECTION 8. REACTIVITY DATA

Stability: Product is stable.
Conditions for instability: Not available.
Conditions to avoid: Avoid heat and ignition sources.
Incompatibility: Highly reactive with oxidizing agents such as peroxides, perchlorates.
Decomposition products: CO_x, SO_x, NO_x, and Smoke on combustion.

SECTION 9. PREVENTATIVE MEASURES

Personal Protective Equipment: This product is highly flammable, use extreme caution, and avoid all sources of ignition. Use in well ventilated areas. Use chemical safety goggles and/or full-face shield to protect eyes and face. Viton or nitrile gloves and impervious clothing should be worn at all times while handling the product. Although there have been no recommended exposure limits established, SCBA should be used to minimize exposure to the products especially in confined spaces.

Engineering Controls: Highly recommended for all indoor situations to control fugitive emissions. Electrical and mechanical equipment should be explosion proof. Concentrations in air should be maintained below the lower explosion limit at all times or below the recommended threshold limit value if unprotected personnel are involved. For personnel entry into a confined space (i.e. bulk storage tanks), a proper confined space entry must be followed, including ventilation and testing of tank atmosphere. Make up air should always be supplied to balance air exhausted.

Land Spill: Eliminate any sources of ignition. Keep the public away. Prevent additional discharge of material if possible to do so without hazard. Consult an expert on disposal of recovered material. Ensure disposal is performed in compliance with government regulations. Notify the appropriate authorities. For spills over 70L in Canada contact the Canadian Coast Guard, 1-800-563-2444. Take additional action to prevent and remedy the adverse effects of the spill.

Water Spill: Eliminate all sources of ignition. Prevent additional discharge of material. Consult an expert on disposal of recovered material. Ensure disposal is performed in compliance with government regulations. Notify the appropriate authorities. For all spills in Canada contact the Canadian Coast Guard, 1-800-563-2444. Take additional action to prevent and remedy the adverse effects of the spill.

Storage and handling: Combustible, store in a cool, dry, well ventilated area away from heat sources. Launder contaminated clothing and use good hygiene practices. Material may accumulate a static charge. Use proper relaxation and grounding procedures

The information contained herein is based on the data available to us and is believed to be correct. However, North Atlantic Refining Limited makes no