8.0 Training and exercise

Nunatta Environmental Services is an environmental contractor. Its main field of activities is summarized below:

- Landfarm operation
- Addressing fuel and other contaminant spills (on soil or on water)
- Asbestos and other waste management
- Project management for environmentally sensitive issues such as phase 1 and 2 investigations and terrain remediation.

NES staff is exposed to environmental situations on a daily basis and have addressed several minor and important spills in Iqaluit and elsewhere in Nunavut. The interventions range from addressing fuel spills in basements or in water bodies to designing a phenol contaminated water treatment plant. NES members are concerned about environmental issues and new employees receive constant training through discussions with more experienced workers. Formally, training and exercises offered to NES employees consists of the following:

For individuals without an environmental background, each new employee spends 2 complete days as observers with an established employee to learn and understand the types of intervention that NES specializes in. Each employee must read and understand the company's Health and Safety Plan and the Spill Contingency Plant.

'Tool box' type of briefing explaining various environmental situations is offered seasonally on a weekly basis. During these sessions, the foreman explains how spills are addressed (for NES's clients) and often recalls that accidental spills do not only happen at Client's property but also on the landfarm area. Directives are given to the employees how to react if a spill was to occur within the property.

A fuel spill and a water containing spill are simulated twice during the summer season. The first exercise is planned while employees are watching the preparations. The second exercise is planned without the field employees knowing that a spill will occur. Each employee addresses the spill (knowing and not knowing that a spill will occur) while the foreman notes the efficiency of the operation. A debriefing is offered to the workers after the event. Training session and exercises are documented (individuals involved, type of training, type of exercise). Reports are annexed to the Spill Contingency Plan.

Mr. Alain Carrière is responsible for preparing the spill exercises, for documenting it and for keeping the Spill Contingency Plan updated. Mr. Carrière has been in charge of NES since NES's inception in 1999 and has been involved in Nunavut on a full time basis since the mid 1970's in earthwork and construction projects. He has been training and supporting local staff projects such as residential, commercial and industrial construction, heavy equipment operation, landfarm construction, emergency spill response, phase 1 and 2 investigations, environmental and geotechnical monitoring, asbestos removal. Mr. Carrière used to sit on the Board of Directors of the Workmen Compensation Board until June 2004. Safety and environmental issues are part of the everyday training offered to staff employed by Nunatta Environmental Services Inc.

Attachment 1

Hazardous Material Information

This section provides information on all potentially hazardous materials stored, handled, or transported by NES. These material include fuel, lubricants, fuel contaminated water and fertilizers.

Arctic Diesel fuel - supplier: Baffin Gas Bar

- 1- Chemical composition: a mixture of hydrocarbons containing C9-C16 paraffins (53%), cycloparaffins (31%), aromatics (16%), and olefins (0.5%). The aromatic content of Diesel might vary from less than 2.5% to greater than 22% by volume. The benzene content of Diesel is typically less than 0.02%, and a small amount of polycyclic aromatic hydrocarbons might be present in Diesel. Some compounds contain sulfur (up to 50 parts per million)
- 2- Physical and chemical properties: Flammable liquids having low solubility in water. The lighter fraction of Diesel fuel is readily volatile under normal conditions whereas the heavier fraction will only volatilize after long periods. Diesel density is less than water: approx. 850kg per cubic meter. Diesel has a characteristic hydrocarbon odor and has a light brown color. Boiling point: 170°Celsius.
- 3- Potential hazards: Diesel is a flammable liquid that will not explode. Diesel is known to be toxic to humans if ingested in relatively large quantities. This type of fuel is non-toxic to microorganisms given that the concentration is less than 10% by weight. It will because toxic to some microorganisms if these concentrations are exceeded. Diesel is not a carcinogenic compound.
- 4- Emergency response action: In case of fire the following extinguishing media can be used: water and water fog, carbon dioxide, foam and dry chemical. To prevent a fire, avoid high temperatures, sparks and open flame. If spilled in eyes or skin, rinse with water. If ingested, do not induce vomiting. Get medical attention readily. For environmental protection, have absorbent material available during transfer operations.
- 5- Fuel is delivered to the landfarm on a daily basis for small quantities (using 5 gallon Jerry cans). A fuel truck goes to the landfarm on as required basis. No fuel is stored within the landfarm facility except for 5 gallons of fuel kept on the landfarm for emergency purposes.
- 6- The fuel consumption will range from 10 to 200 litres per day, depending on the operations undertaken. Fuel is delivered to the site. There is no Diesel storage tank within the landfarm area.

Gasoline - supplier: Baffin Gas Bar

- 1- Chemical composition: Gasoline is a complex mixture of hydrocarbons containing lightweight alkanes, alkenes and aromatic compounds. Gasoline is more volatile than Diesel fuel. One of the main components is MTBE (Methyl Tert Butyl Ether) and can account for up to 15% of gasoline.
- 2- Physical and chemical properties: Appearance and Odor: Clear, pink, or blue tinted liquid with characteristic, pungent odor: odor threshold is 0.25 ppm. Boiling Range @ 760 mm Hg: 80-437 degrees F. Specific Gravity (H₂O=1): 0.68-0.76 @60 degrees F. Gasoline is only soluble in water at trace levels.
- 3- Potential hazards: Fire the auto ignition temperature is gasoline is 480°F. Explosion: Vapors may travel extended distances and flashback with explosive force if ignition sources are present. Clothing, rags, or similar organic material contaminated with the product and stored in a closed space may undergo spontaneous combustion. Human health: Work in well ventilated areas using good engineering practices to process, transfer and store. Explosion-proof equipment is required. Vapor recovery systems may be required in some areas. Mechanical ventilation is required for confined spaces such as tanks and vessels. Environment: Gasoline is non-toxic to microorganisms given that the concentration is less than 10% by weight. It will because toxic to some microorganisms if these concentrations are exceeded. Gasoline contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm. These chemicals are: Benzene (cancer), toluene (reproductive effects).
- 4- Emergency response action: Fire In case of fire the following extinguishing media can be used: water and water fog, carbon dioxide, foam and dry chemical. To prevent a fire, avoid high temperatures, sparks and open flame. If spilled in eyes or skin, rinse with water. If ingested, do not induce vomiting. Get medical attention readily. For environmental protection, have absorbent material available during transfer operations.
- 5- Gasoline is delivered to the landfarm on a as required basis (using 5 gallon Jerry cans). No gasoline is stored within the landfarm facility.
- 6- Gasoline consumption will range from 1 to 20 liters per day, depending on the operations undertaken. Gasoline is delivered to the site. There is no gasoline storage tank within the landfarm area.

20:20:20 Fertilizer - Supplier - Cooperative St-Clet, Quebec

- 1- Chemical formula: 20:20:20 fertilizer contains urea (ammonium nitrate), monobasic and dibasic ammonium phosphate, and potassium nitrate.
- 2- Physical and chemical properties: water soluble granules used as plant food.
- 3- Potential hazards: fire non-flammable. Explosion: non applicable. Human health Exposure can occur by eye or skin contact, ingestion, or inhalation of dusts or mists. Eye contact may cause slight, temporary irritation. Skin contact may cause mild irritation. Ingestion may cause nausea, vomiting along with mild irritation to the mouth, throat, esophagus and stomach. High dust concentrations may cause mild respiratory tract

irritation with coughing and nasal discharge. Environment: this fertilizer is water-soluble. Excess products will enter water systems and cause eutrophication.

- 4- Emergency response action: Fire not considered as flammable. Explosion: non applicable. Human health, first aid: EYES: If in eyes, hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice. SKIN: If on skin or clothing, take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. INGESTION: If swallowed, call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything by mouth to an unconscious person. INHALATION: Move person to fresh air. Call a poison control center or doctor for further treatment advice. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-tomouth. Call a poison control center or doctor for further treatment advice. Environmental protection: proper dosage in the soil system is essential to prevent water soluble fertilizers to enter water bodies. If spilled, remove granular fertilizer and dispose adequately. If excess fertilizer enters a water body, pump water (if possible) and treat.
- 5- Outline of transportation: Fertilizers are transported to the landfarm in sealed steel 45 gallon drums on wooden pallets. The drums will be stored adjacent to the site in a heated building. There is no by-products or secondary products upon use of the fertilizers.
- 6- Rate of usage: Fertilization is required on a monthly basis in June, July, August and September. Fertilizers are applied to the land's surface with a conventional granular spreader. Approximately 500 kg per application is anticipated. The storage area will contain 2 years worth of fertilizer application, approximately 2,000 kg or 10 sealed barrels.

Hydraulic fluid – Supplier: Ultramar Canada

- 1- Chemical composition: Hydraulic fluid is composed of petroleum hydrocarbons having moderate to high molecular weight compounds. Hydraulic oil is a red colored fluid. According to WHMIS regulations, hydraulic fluid is not considered as a hazardous product.
- 2- Physical and chemical properties: Hydraulic fluid is a liquid with a boiling point reported to be 212 °F., with a specific gravity higher than water: 1.089 kg per liter. It has no reported vapor pressure.
- 3- Potential hazards: Fire Hydraulic fluid is not a flammable product. Explosion Does not explode. Human health: routes of entry (Skin contact; Eye contact; Ingestion). Preventive measures reported in the MSDS sheets. Environment: can be toxic to microorganisms if found in concentrations greater than 10% by weight.
- 4- Emergency response action: Fire: If hydraulic fluid sets on fire, Apply alcohol-type or foam for large fires. Apply water spray, carbon dioxide or dry chemical for small fires. Explosion: Hydraulic fluid will not explode. Avoid strong oxidizing agents. Human health and first aid Eyes: wash with water, consult a doctor. Skin: wash with soap and water.

- Ingestion: drink water and induce vomiting. Inhalation: breathe fresh air. Environmental protection recuperate if spilled on soil; hydraulic oil is heavier than water. Pump deposited hydraulic fluid if spilled in a water body.
- 5- Outline of transportation: Hydraulic fluid is already present in heavy equipment. In the event that an hydraulic hose would rupture, it would be fixed and a small quantity of hydraulic fluid would be delivered to the landfarm. Soil spoiled with hydraulic fluid is placed in the landfarm for treatment. Hydraulic fluid is not stored within the landfarm zone.
- 6- Rate of usage: on an as-required basis but is anticipated not to exceed 50 liters per field season. Hydraulic fluid is stored at the supplier's installations.

Motor oil - supplier: Pennzoil - Quaker State

- Chemical composition: petroleum distillates, dewaxed solvents, Dialkyl(C1-C14)dithiophosphoric acid, zinc salt.
- 2- Physical and chemical properties: Motor oil is a liquid with a boiling point reported to be 220 °F, with a specific gravity higher than water: 1.11 kg per liter. It has no reported vapor pressure.
- 3- Potential hazards Motor oil is not a flammable product. Explosion Does not explode. Human health: routes of entry (Skin contact; Eye contact; Ingestion). Preventive measures reported in the MSDS sheets. Environment: can be toxic to microorganisms if found in concentrations greater than 10% by weight.
- 4- Emergency response action: Fire If motor oil sets on fire, apply alcohol-type or foam for large fires. Apply water spray, carbon dioxide or dry chemical for small fires. Explosion motor oil will not explode. Human health and first aid Inhalation: Negligible hazard at room temperature (up to 95 degrees F). High temperatures or mechanical action may form mists or fumes. Inhalation of oil mists or fumes can cause irritation of the nose, throat and upper respiratory tract. Eye Contact: May cause irritation to the eyes. Skin Contact: Prolonged or repeated contact with skin may cause mild irritation and possibly dermatitis. Symptoms may include redness, edema, drying, defatting and cracking of the skin. Ingestion: Low toxicity. Pulmonary aspiration hazard if swallowed. Swallowing may cause stomach cramps and diarrhea. Environmental protection recuperate if spilled on soil; motor oil is heavier than water. Pump deposited motor oil if spilled in a water body.
- 5- Outline of transportation Oil change on heavy equipment is not done at the landfarm. Equipment is sent to a local garage for maintenance. A small quantity of motor oil and grease tube will be stored on site in a rain and snow shelter. A maximum of 20 liters of motor oil will be stored on site
- 6- Rate of usage: motor oil changes are done in a local garage. During the daily heavy equipment inspection, motor oil levels are checked. Motor oil will occasionally be used to fill up crankcases to the required levels. The bulk of the motor oil used by the equipment is based at a local garage.

Material Safety Data Sheets for the above listed products are found in Attachment 2.

ATTACHMENT 2

Supporting documents

Material Safety Data Sheets pour the following products:

- Diesel fuel
- Gasoline
- Hydraulic fluid
- Motor Oil
- 20:20:20 water-soluble fertilizer
- Hydrophobic sorbent

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AMOCO INTERNATIONAL OILCO - AMOFUEL NO. 2 DIESEL - DIESEL FUEL

MATERIAL SAFETY DATA SHEET

NSN: 9140002865294

Manufacturer's CAGE: 6G027

Part No. Indicator: A

Part Number/Trade Name: AMOFUEL NO. 2 DIESEL

General Information

Item Name: DIESEL FUEL

Company's Name: AMOCO INTERNATIONAL OILCO

Company's Street: 200 E RANDOLPH DR

Company's P. O. Box: 5910-A

Company's City: CHICAGO

Company's State: IL

Company's Country: US

Company's Zip Code: 60680

Company's Emerg Ph #: 800-447-8735

Company's Info Ph #: 312-856-3907

Distributor/Vendor # 1: AMOCO INTERNATIONAL OILCO

Distributor/Vendor # 1 Cage: 6G027

Record No. For Safety Entry: 082

Tot Safety Entries This Stk#: 112

Status: SE

Date MSDS Prepared: 25JUL89

Safety Data Review Date: 07MAR91

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Supply Item Manager: KY

MSDS Preparer's Name: R. G. FARMER

MSDS Serial Number: BGWFD

Specification Number: VV-F-800

Spec Type, Grade, Class: DF-2

Hazard Characteristic Code: F4

Unit Of Issue: GL

Unit Of Issue Container Qty: BULK

Type Of Container: BULK

Ingredients/Identity Information

Proprietary: NO

Ingredient: ALIPHATIC PETROLEUM DISTILLATES

Ingredient Sequence Number: 01

NIOSH (RTECS) Number: 1003049AP

CAS Number: 68476-30-2

OSHA PEL: NOT ESTABLISHED

ACGIH TLV: NOT ESTABLISHED

Other Recommended Limit: NONE SPECIFIED

Physical/Chemical Characteristics

Appearance And Odor: CLEAR, BRIGHT LIQUID

Boiling Point: 340F,171C

Specific Gravity: 0.88

Decomposition Temperature: UNKNOWN

Solubility In Water: NEGLIGIBLE
Viscosity: 1.8 CS @100F
Corrosion Rate (IPY): UNKNOWN
Fire and Explosion Hazard Data
Flash Point: 120F,49C
Flash Point Method: TCC
Lower Explosive Limit: 0.6
Upper Explosive Limit: 7.5
Extinguishing Media: USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL.
(EXTINGUISHINGING AGENTS APPROVED FOR CLASS B HAZARDS)
Special Fire Fighting Proc: FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA &
FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER SPRAY TO
COOL NEARBY CONTAINERS EXPOSED TO FIRE.
Unusual Fire And Expl Hazrds: FIRE OR EXCESSIVE HEAT MAY CAUSE PRODUCTION
OF HAZARDOUS DECOMPOSITION PRODUCTS.
Reactivity Data
Stability: YES
Cond To Avoid (Stability): HIGH TEMPERATURES, SPARKS, AND OPEN FLAMES
Materials To Avoid: STRONG OXIDIZING AGENTS
Hazardous Decomp Products: BY FIRE: CARBON MONOXIDE, CARBON DIOXIDE
Hazardous Poly Occur: NO
Conditions To Avoid (Poly): NOT APPLICABLE

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Health Hazard Data
LD50-LC50 Mixture: LD50 (ORAL RAT) IS EXPECTED > 5G/KG
Route Of Entry - Inhalation: YES
Route Of Entry - Skin: YES
Route Of Entry - Ingestion: YES
Health Haz Acute And Chronic: EYE:IRRITATION. SKIN:MILDLY IRRITATING.
RESPIRATORY SYSTEM IRRITATION AND LIGHT HEADEDNESS. MAY CAUSE NAUSEA, HEADACHE, DROWSINESS, VOMITING. INGESTION:SOLVENT ASPIRATION INTO LUNGS AS A RESULT OF VOMITING MAY CAUSE LUNG AND DIGESTIVE SYSTEM DAMAGE
Carcinogenicity - NTP: NO
Carcinogenicity - IARC: NO
Carcinogenicity - OSHA: NO
Explanation Carcinogenicity: NONE OF THE COMPOUNDS IN THIS PRODUCT IS
LISTED BY IARC, NTP, OR OSHA AS A CARCINOGEN. (DIESEL EXHAUST IS POTENTIAL)
Signs/Symptoms Of Overexp: VAPORS IN HIGH CONCENTRATION ARE ANESTHETIC.
OVEREXPOSURE MAY RESULT IN FATIGUE, WEAKNESS, CONFUSION EUPHORIA,
DIZZINESS, HEADACHE, DILATED PUPILS, LACRIMATION, NERVOUSNESS, MUSCLE FATIGUE, INSOMNIA, PARESTHESIA, DERMATITIS, AND PHOTOPHOBIA. CAN CAUSE TEARING, REDNESS OF EYES AND BLURRED VISION. IRRITATION OF SKIN.
Med Cond Aggravated By Exp: PERSONS WITH A HISTORY OF AILMENTS OR WITH A
PRE-EXISTING DISEASE INVOLVING THE EYES, SKIN, RESPIRATORY TRACT OR NERVOUS SYSTEM MAY BE AT INCREASED RISK FROM EXPOSURE. DRYING/CRACKING OF SKIN.
Emergency/First Aid Proc: EYES: FLUSH WITH RUNNING WATER FOR 15 MINUTES
WHILE HOLDING EYELID. GET MEDICAL ATTENTION IMMEDIATELY, SKIN: WASH WITH REMOVE TO FRESH AIR. GIVE MOUTH-TO-MOUTH RESUSCITATION IF NOT BREATHING. GET MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING. GIVE NOTHING BY MOUTH IF UNCONSCIOUS. GET MEDICAL ATTENTION IMMEDIATELY.
Precautions for Safe Handling and Use

Steps If Matl Released/Spill: REMOVE ALL SOURCES OF IGNITION. VENTILATE

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AND REMOVE WITH INERT ABSORBENT. USE NON-SPARKING TOOLS.

Neutralizing Agent: NOT APPLICABLE

Waste Disposal Method: WASTE MATERIAL MAY BE A HAZARDOUS WASTE (CODE D001)

WHICH MUST BE DISPOSED OF ACCORDINGLY. DO NOT INCINERATE CLOSED CONTAINER.

DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

Precautions-Handling/Storing: CONTENTS ARE FLAMMABLE. KEEP AWAY FROM HEAT.

SPARKS, AND OPEN FLAME. DURING USE AND UNTIL ALL VAPORS ARE GONE: KEEP AREA

VENTILATED-DO NOT SMOKE.

Other Precautions: AVQID BREATHING OF VAPORS. LABORATORY TESTS ON ANIMALS

HAVE SHOWN THAT EXPOSURE CAN CAUSE SKIN TUMORS. ALWAYS PROMPTLY WASH OFF

ANY EXPOSED SKIN.

Control Measures

Respiratory Protection: WEAR A NIOSH/MSHA APPROVED RESPIRATOR IF

VENTILATION DOES NOT MAINTAIN INHALATION EXPOSURES BELOW PEL/TLV. WEAR SELF-CONTAINED BREATHING APPARATUS IF REQUIRED FOR HIGH LEVELS OF CONTAMINATES.

Ventilation: LOCAL EXHAUST PREFERABLE. GENERAL EXHAUST ACCEPTABLE IF THE EXPOSURE IS MAINTAINED BELOW APPLICABLE EXPOSURE LIMITS.

Protective Gloves: NEOPRENE OR NATURAL RUBBER GLOVES

Eye Protection: PAINT GOGGLES/SAFETY GLASSES AS REQUIRED

Other Protective Equipment: INDUSTRIAL-TYPE WORK CLOTHING, HAT AND APRON

AS REQUIRED. AN EYE WASH AND DRENCH SHOWER FACILITY SHOULD BE AVAILABLE.

Work Hygienic Practices: USE WITH ADEQUATE VENTILATION. AVOID BREATHING

VAPOR/SPRAY MIST, AVOID CONTACT WITH SKIN/EYES. WASH HANDS/SKIN AFTER USE

Suppl. Safety & Health Data: KEEP CONTAINER CLOSED WHEN NOT IN USE.

TRANSFER ONLY TO APPROVED CONTAINERS WITH COMPLETE AND APPROPRIATE LABELING. DO NOT TAKE INTERNALLY.

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Transportation Data

Trans Data Review Date: 91066

DOT PSN Code: LKZ

DOT Proper Shipping Name: PETROLEUM DISTILLATES, N.O.S. OR PETROLEUM

PRODUCTS, N.O.S.

DOT Class: 3

DOT ID Number: UN1268

DOT Pack Group: III

DOT Label: FLAMMABLE LIQUID

IMO PSN Code: LMH

IMO Proper Shipping Name: PETROLEUM DISTILLATES, N.O.S. o

IMO Regulations Page Number: 3375

IMO UN Number: 1268

IMO UN Class: 3.3

IMO Subsidiary Risk Label: -

IATA PSN Code: TJB

IATA UN ID Number: 1268

IATA Proper Shipping Name; PETROLEUM DISTILLATES, N.O.S.

IATA UN Class: 3

IATA Label: FLAMMABLE LIQUID

AFI PSN Code: TJB

AFI Prop. Shipping Name: PETROLEUM DISTILLATES, N.O.S.

AFI Class: 3

AFI ID Number: UN1268

AFI Pack Group: III

AFI Basic Pac Ref: 7-7

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N.O.S. Shipping Name: CONTSAINS PETROLEUM DISTILLATE. Additional Trans Data: MSDS GIVES FLASH POINT RANGE 120F-180F, BOILING POINT RANGE 340F-675F. Disposal Data Label Data Label Required: YES Technical Review Date: 07MAR91 Label Status: F Common Name: AMOFUEL NO. 2 DIESEL Chronic Hazard: NO Signal Word: WARNING! Acute Health Hazard-Slight: X Contact Hazard-Slight: X Fire Hazard-Moderate: X Reactivity Hazard-None: X Special Hazard Precautions: EYE: IRRITATION. SKIN: MILDLY IRRITATING.

RESPIRATORY SYSTEM IRRITATION AND LIGHT HEADEDNESS. MAY CAUSE NAUSEA, HEADACHE, DROWSINESS, VOMITING. INGESTION:SOLVENT ASPIRATION INTO LUNGS AS A RESULT OF VOMITING MAY CAUSE LUNG AND DIGESTIVE SYSTEM DAMAGE REMOVE ALL SOURCES OF IGNITION. VENTILATE

AND REMOVE WITH INERT ABSORBENT. USE NON-SPARKING TOOLS, CONTENTS ARE FLAMMABLE. KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAME. DURING USE AND UNTIL ALL VAPORS ARE GONE: KEEP

AREA VENTILATED- DO NOT SMOKE.

Protect Eye: Y

Protect Skin: Y

Protect Respiratory: Y

Label Name: AMOCO INTERNATIONAL OILCO

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Label Street: 200 E RANDOLPH DR

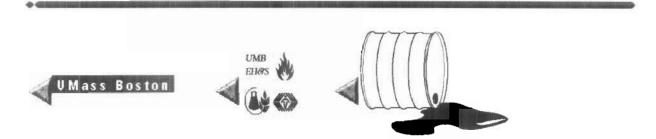
Label P.O. Box: 5910-A

Label City: CHICAGO

Label State: IL

Label Zip Code: 60680

Label Country: US



Cas Number: 8006-61-9

MSDS

Material Safety Data Sheet for Gasoline

efinition . Terms

1. Chemical Product

MSDS Number: U4080

MSDS Date: 01-1-99

Product Name: Gasoline

24 Hour Emergency Phone: (210) 979-8346 Transportation Emergencies: Call Chemtrec at 1-800-424-9300 MSDS Assistance: (210) 592-4593

Distributors Name and Address:

T.W. Brown Oil Co., Inc. 1857 Knoll Drive Ventura, California 93003

Chemical Name: Gasoline

Synonyms/Common Names: This Material Safety Data Sheet applies to the following product descriptions for Hazard Communication purposes only. Technical specifications vary greatly depending on the product, and are not reflected in this document. Consult specification sheets for technical information.

Unleaded Ggasoline Blendstocks/Subgrades- all types, grades, octanes, and vapor pressures.
California Air Resources Board (Carb) Gasoline- all grades, octanes, vapor pressures, and oxygenate blends.

Reformulated Gasoline (RFG)-all grades, octanes, vapor pressures, and oxygenate blends. California Reformulated Gasoline (CARFG)-all grades, octanes, vapor pressures, and oxygenate blends.

Conventional Gasoline-all grades, octanes, vapor pressures, and oxygenate blends.

2. Composition, Information On Ingredients

Product Use: This product is intended for use as a fuel in engines or for use in engineered processes. Use in other applications may result in higher exposures and require additional controls, such as local exhaust ventilation and personal protective equipment.

Description: Reformulated gasoline is a complex mixture of hydrocarbons from a variety of chemical processes blended to meet standardized product specifications. Composition varies greatly and includes C? to C? hydrocarbons with a boiling range of about 80-473 degrees F. The following is a non-exhaustive list of common components, typical percentage ranges in product, and occupational exposure limits for each. Functional and performance additives may also be present at concentrations below reporting thresholds.

Component or Material Name	%	CAS Number	ACGIH Limits TLV STEL Units	OSHA Exposure Limits PEL STEL C/P Units	
Gasoline 90-100		Mixture	300500ppm	NANANA	
Butane	<9	106-97-8	800NAppm	NANANA	
Pentane	<6	109-66-0	600750ppm	1000NANAppm	
n-Hexane	<4	110-54-3	50NAppm	500NANAppm	
Hexan(other isomers) <8		NA	5001,000ppm	NANANA	
Benzene	tene 1.2 - 4.9		0.52.5ppm	15NAppm	
N-heptane <2		14-82-5	400500ppm	500NANAppm	

Ethylbenzene	<2	100-41-4	100125ppm	100NANAppm	
Xylene (o,m,p, - isomers)	<11	1330-20-7	100150ppm	100NANAppm	
Cyclohexane	<2	110-82-7 300NAppm		300NANAppm	
Trimethylbenzene	<4	25551-13-7	25NAppm	NA-NA-NA	
Methyl-t-butyl ether (MTBE)	0-15	1634-04-4	40NAppm	NA-NA-NA	
Toluene	<12	108-88-3	50-NA-ppm	200-300/500-NA-ppm	
Ethyl-t-butyl ether (ETBE)	0-7	637-92-3	N/A-NA-ppm	NA-NA-NA	
t-amyl-methyl-ether	0-5	994-05-8	N/A-NA-ppm	NA-NA-NA	
Ethanol 0-11		64-17-5 1,000-NA-ppm		1,000-NA-NA-ppm	

C=Ceiling concentration not to be exceeded at any tume. P= Peak concentration for a single 10 minute exposure per day.

3. Hazards Identification

Health Hazard Data:

- The major effect of exposure to this product is central nervous system depression and polyneuropathy.
- 2. Studies have shown that repeated exposure of laboratory animals to high concentrations of whole gasoline vapors at 67,262 and 2056 ppm has caused kidney damage and cancer of the kidney in rats and liver cancer in mice.
- 3. LARC has listed gasoline as possibly carcinogenic (2B) to humans with limited evidence in humans in the absence of sufficient evidence in experimental animals. NIOSH lists gasoline as a carcinogen with no further classification.
- 4. N-heptane and cyclohexane cause narcosis and irritation of eyes and mucous membranes. Cyclohexane has been reported to cause liver and kidney changes in rabbits. N-heptane has been reported to cause polyneuritis following prolonged exposure.
- 5. ACGIH lists benzene a human carcinogen with and assigned TLV of 0.5 ppm 8 hour TWA and a STEL of 2.5 ppm; IARC, NTP \$ OSHA show sufficient evidence for classifying Benzene as a human carcinogen, see 29 CGR 1910.1028 for current PEL of 1 ppm and specific actions to take. Studies have shown that benzene can induce leukemia at concentrations as low as 1 ppm. Significant elevations of chromosomal aberrations have been corroborated among workers exposed to levels at mean concentrations less than 10 ppm. Based on risk assessment studies by Rinsky, an individual inhaling 1 ppm of benzene for 40 years, the odds of benzene-induced leukemic death were 1.7 times higher than those of unexposed workers.
- **6.** MTBE is a mild irritant to the eye with an LC50 of 85 mg/m3 on 4 hr. exposure and an LD50 ~4 ml/Kg (RATS). An increase in anesthesia with increasing concentration (250,500 & 1000 ppm) was observed during a 90 day Test exposure. ACGIH has listed MTBE as an animal carcinogen (A3) based on tests in experimental animals at relatively high dose levels, by routes of administration, at sites, of histologic types, or by mechanisms not considered relevant to worker exposure. Available evidence suggests that MTBE is not likely to cause cancer in humans except under uncommon or unlikely routes of levels of exposure.
- 7. Trimethylbenzene (pseudocumene (1,2,4,) & mesitylene (1,2,5,)) has a PEL and TLV of 25 ppm 8 hr. TWA; the isomers may cause nervousness, tension, and anxiety and asthmatic bronchitis.
- 8. n-Hexane has been shown to cause polyneuropathy (peripheral nerve damage) after repeated and prolonged exposure, other hexanes show narcotic effects at 1000 ppm and are not metabolized like n-hexane.
- Toluene can cause impairment of coordination and momentary loss of memory (200-500 ppm);Palpations, extreme weakness and pronounced loss of coordination (500-1500). The 100 ppm 8

- hr. TWA and the 150 ppm STEL provides adequate protection.
- 10. The toxicological effects of ETBE and TAME have not been thoroughly investigated. ETBE and TAME are expected to be an inhalation hazard and a severe eye and moderate skin irritant.

Hazards of Combustion Products: Carbon monoxide and carbon dioxide can be found in the combustion products of this product and other forms of hydrocarbon combustion. Carbon monoxide in moderate concentrations can cause symptoms of headache, nausea, vomiting, increased cardiac output, and confusion. Exposure to higher concentrations of carbon monoxide can cause loss of consciousness, heart damage, brain damage, and/or death. Exposure to high concentrations of carbon dioxide can cause simple asphyxiation by displacing available oxygen. Combustion of this and other similar materials should only be carried out in well ventilated areas.

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MSDS refinition of terms

Material Safety Data Sheet Gasoline

Medical Condition Generally Aggravated By Exposure: Medical conditions which have the same symptoms and effects as those outlined under the health hazard information section can be aggraved by exposure to this product.

Medical Limitation: N/A

Routes Of Exposure

Inhalation: Irritation of the upper respiratory tract with central nervous system stimulation possible followed by depression, dizziness, headache, incoordination, anaesthesia, coma, and respiratory arrest. The threshold for immediate mild toxic effects is reported to be 900-1000 ppm.

Skin Contact: Defatting of the skin may occur with continued and prolonged contact. Irritation and burning sensation may occur on exposure to the liquid or high vapor phase exposure..

Skin Absorption: Bezene is absorbed directly through intact skin.

Eye Contact: Contact with liquid will cause severe burning sensation with temporary irritation and swelling of lids. Vapor in concentrations of 160-270 ppm in air will irritate the eye.

Ingestion: Irritation of the mucous membranes of throat, esophagus and stomach which may result in nausea and vomiting; depression may occur, if absorbed (see inhalation symptoms above). If aspirated, chemical pneumonitis may occur with potentially fatal results.

Carcinogenicity Statement: Gasoline mixtures are not listed as carcinogenic by NTP, OSHA, and ACGIH. Gasoline mixtures are listed as a possible carcinogen by IARC (2B) and NIOSH. Benzene is listed as a confirmed human carcinogen by IARC, NTP, OSHA, NIOSH, and ACGIH.

4. First Aid Measures

Eyes: Immediately flush eyes with large amount of water for at least 15 minutes holding lids apart to ensure flushing of the entire eye surface. **SEEK IMMEDIATE MEDICAL** ATTENTION.

Skin: Wash contaminated areas with plenty of soap and water. A soothing ointment may be applied to irritated skin after thoroughly cleansing. Remove contaminated clothing and footwear SEEK IMMEDIATE MEDICAL ATTENTION.

Inhalation: Get person out of contaminated area to fresh air. If breathing has stopped resuscitate and administer oxygen if readily available. SEEK MEDICAL ATTENTION IMMEDIATELY.

Ingestion: Never give anything by mouth to an unconscious person. If swallowed, do not induce vomiting. If vomiting occurs spontaneously, keep airway clear. SEEK MEDICAL ATTENTION IMMEDIATELY.

Note to Physician: Gastric lavage only if large quantity has been ingested. Guard aagainst aspiration into lungs which may result in chemical pneumonitis. Irregular heart beat may occur, use of adrenaline is not advised. Treat symptomatically.

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MSDS Definition of terms

Material Safety Data Sheet for Gasoline

5. Fire and Explosion Data

Flash Point: <-40 degrees (Estimated)
Autoignition Temperature: 480 degrees F
Flammable Limits In Air: UEL: 7.1% - LEL: 1.3%

Extinguishing Media: Use dry chemical, carbon dioxide, foam or water spray. Water may be ineffective in fighting fires of liquids with low flash points, but water should be used to keep fire exposed containers cool. If a leak or spill has not ignited, use water spray to disperse the vapors and to protect persons attempting to stop a leak.

Special Fire Fighting Procedures: Pressure-demand, self contained, breathing apparatus should be provided for fire fighters engaged in activities in the hot zone.

Unusual Fire And Explosion Hazard: Vapors may travel extended distances and flashback with explosive force if ignition sources are present. Clothing, rags, or similar organic material contaminated with the product and stored in a closed space may undergo spontaneous combustion.

6. Accidental Release Measures

Eliminate all sources of ignition (flames, sparks, heat, electrical equipment, and engines) and remove non-response personnel from the spill area. Contain liquids with earthen dikes or petroleum absorbent materials. Prevent discharges to streams or sewer systems. Control vapors from large spills with fire-fighting foam. Remove liquid with explosion-proof equipment and grounded and bonded suction hoses. Report spills or releases as required to the appropriate local, state and federal regulatory agencies.

7. Handling and Storage Information

This product is intended for use as engine fuel only. Protect containers against physical damage. Outside or detached storage or underground storage is preferred. Separate from oxidizing materials. Store in cool, well ventilated area of non-combustible construction away from possible sources of ignition (flames, sparks, heat, electrical equipment, and engines). Transfer with explosion-proof equipment and grounded and bonded transfer lines. Consult NFPA 30 and OSHA 1910.106 for specific requirements.

8. Exposure Controls/Personal Protection

Ventilation Requirements: Work in well ventilated areas using good engineering practices to process, transfer and store. Explosion-proof equipment is required. Vapor recovery systems may be required in some areas. Mechanical ventilation is required for confined spaces such as tanks and vessels.

Specific Personal Protective Equipment

Respiratory: Respiratory protection is not normally not required when transferring material in well ventilated areas. When transferring in enclosed areas or at high temperatures, vapors concentrations may warrant use of respiratory equipment. Use NIOSH approved respiratory protection following manufacture's recommendations. Positive pressure supplied air respiratory protection is required for IDLH areas; follow ANSI Z88.2

Eye: Face shield and goggles or chemical goggles should be worn where splashing is likely.

Gloves: Impermeable protective gloves such as nitrile gloves should be worn during routine handling of this product.

Other Clothing and Equipment: Standard work clothing is sufficient with good practices. Clothing contaminated with this product should be removed and laundered before reuse. Items which can not be laundered should be discarded. Allow contaminated items to air dry or hang in a well ventilated area. Spontaneous combustion or fire may result from contaminated materials being placed together before drying. Shower and eyewash facilities should be accessible.

Special Work Practices:

- (1) Wear impervious gloves such as nitrile gloves when "dip-sticking storage tanks"
- (2) Work up-wind of small spills during clean-up
- (3) DO NOT USE THIS PRODUCT as a solvent for cleaning equipment or skin
- (4) Store small quantities ONLY in "SAFETY CANS" approved for gasoline storage and labeled "GASOLINE"
- (5) Allow contaminated rags to completely dry in a well ventilated area before storage

Exposure Monitoring

Biological: No applicable procedure, breath analysis for hydrocarbons has been suggested. Below are biological monitoring procedures for certain ingredients:

ANALYTE	DETERMINANT	SAMPLING TIME	BIOLOGICAL EXPOSURE INDEX (BEI)	
Benzene	S-phenylmercapturic acid in urine	End of shift	25 ug/g creatinine	
Toluene	Hippuric acid in urine	End of shift	1.6 g/g creatinine	
	Toluene in venous blood	Prior to last shift of week	0.05 mg/L	
n-Hexane	2,5-Hexanedione in urine	End of shift	5 mg/g creatinine	
	n-Heane in exhaled air		Semiquantitative	
Ehylbenzene	Mandelic acid in urine	End of last shift of week	1.5 g/g creatinine	
	Ehtylbenzene in exhaled air		Semiquantitative	
Xylene	Methylhippuric acid in urine	End of shift	1.5 g/g creatinine	

Personal/Area: Both active and passive air monitoring utilizing activated charcoal absorption followed by gas chromatography are recommended. A moleculas weight of 72.5 has been suggested as the average value to convert total hydrocarbon results from milligrams per cubic meter to ppm. Direct reading indicating tubes are available to evaluate short term exposure.

9. Physical and Chemical Properties

Appearance and Odor: Clear, pink, or blue tinted liquid with characteristic, pungent odor: odor

threshold is 0.25 ppm and is not an index of exposure. Boiling Range @ 760 mm Hg: 80-437 degrees F

Melting Point: NA

Vapor Density (Air=1): 3.0-4.0 Evaporation Rate (BuAc=1): N/A

Specific Gravity (H2O=1): 0.68-0.76 @60 degrees F Bulk Density At 60 degrees F: 5.7-6.3 lbs./gal.

Solubility in H2O % by WT.: Trace Reid Vapor Pressure: 6.8-15 PSI % Volatiles By Vol.: ~100

API Gravity: 50-75

pH: NA Ron: 89-98

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MSDS

Glycent 46 Hydraulic Fluid (10,000 psi)

1. IDENTIFICATION

Product Name: Glycent 46 Hydraulic Fluid (10,000 psi)

Reference Number: N/A

Company Information:: Fuchs Lubricants Canada Ltd.

Century Oils Division 19829-99A Avenue

Langley, B.C., Canada V1M 3G4 Emergency Phone: (405)888-1552

2. HAZARDOUS INGREDIENTS

Components CAS No. Avgerage Concentration Units

Not a controlled product according to WHMIS regulations

3. PHYSICAL DATA

Physical State: Liquid

Odour & Appearance: Clear red liquid

Odour Threshold: N/A
Vapour Pressure: N/A
Vapour Density: N/A

Evaporation Rate: <1 (ether=1)
Boiling Point: 100°C

Freezing Point: -57°C (pour point)

pH: 9.5

Specific Gravity: 1.089 @ 15.6°C

Coeff. Water/Oil Dist.: >1

4. FIRE & EXPLOSION DATA

Flammability: No

Means of extinction: Apply alcohol-type or foam for large fires. Apply water spray, carbon dioxide

or dry chemical for small fires.

Flashpoint & Method: None (PMCC)

Hazardous Combustion Products: Combustion can produce CO, CO2 and nitrogen oxides

Autoignition Temp.: N/A
Upper Flammable Limit: N/A
Lower Flammable Limit: N/A
Sensitivity to Impact: N/A
Sensitivity to Static Discharge: N/A

5. REACTIVITY DATA

Chemical Stability: Yes Incompatibility w/other substances: Yes

If so, which ones? Normally unreactive, however, if water is evaporated, avoid strong

oxidizing agents and materials with hydroxyl compounds.

Reactivity:

Normally unreactive, however, if water is evaporated, avoid strong

oxidizing agents and materials with hydroxyl compounds

Hazardous Decomposition Products: Evaporation of water and combustion can produce CO, CO2, and nitrogen

oxides.

6. TOXICOLOGICAL PROPERTIES

Route of entry: Skin contact; Eye contact; Ingestion
Effects of Acute Exposure: Small doses may cause pain and discomfort

Effects of Chronic Exposure: None known Exposure Limits: None established

Irritancy of Product: May cause temporary discomfort in eyes

Sensitization to Product:

Carcinogenicity:

Teratogenicity:

Reproductive Toxicity:

Mutagenicity:

Synergistic Products:

None known

None known

None known

None known

None known

7. PREVENTIVE MEASURES

Personal Protective Equipment:

Gloves: Rubber or PVC coated

Respirator: NIOSH or MSHA mask with pre-filter if mists in air

Eye: CSA approved safetey glasses
Footwear: Normal non-slip industrial footwear
Clothing: Coveralls are normally sufficient

Engineering Controls: Normal room ventilation may be adequate at ambient temperatures or covered equipment.

In the event of misting, local exhaust ventilation is needed.

Leak and Spill Small spills should be flushed with large volumes of water. Large spills should be

Procedure: collected for disposal

Waste Disposal: Send to a licensed reclaimer/waste disposal facility, incinerate or landfill to meet federal,

provincial and local regulations.

Handling Procedures & Do not take internally. Wash after handling. Do not inhale mist or vapour. Use with

Equipment: adequate ventilation. Avoid contact with eyes.

Storage Requirements: Keep in a tightly closed container. Do not allow water to evaporate. Do not store with

incompatible substances.

Special Shipping TDG: Not regulated

Requirements:

8. FIRST AID MEASURES

Eyes: Wash with water for 15 minutes. Consult a doctor if irritation persists

Skin: Wash with soap and water. Remove contaminated clothing and launder before re-use.

Ingestion: If conscious, give 2 glasses of water and induce vomiting. Call a physician.

Inhalation: Remove to fresh air. Call a physician if discomfort persists.

9. PREPARATION DATE OF MSDS

Prepared by: Chemical Services Department

Phone Number: (604)888-1552

Date: February 29, 2002

AMERICA'S CHOICE MOTOR OIL



MATERIAL SAFETY DATA SHEET FOR USA AND CANADA

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: AMERICA'S CHOICE MOTOR OIL

Includes grades 5W-30; 10W-30; 10W-40; 15W-40; 20W-20;

20W-50; 10W; 20W; 30; 40

SYNONYMS: Petroleum oil; Lube oil; Petroleum hydrocarbon; Lubricant.

PRODUCT CODE: Prefix 21

PRODUCT USE: For lubricating passenger car motors.

MEDICAL:

If this product is used in combination with other products, refer to the

TRANSPORTATION (SPILL):

1-800-468-1760 (USA)

Material Safety Data Sheets for those products.

24-HOUR EMERGENCY TELEPHONES

These numbers are for emergency use only. If

you desire non-emergency 1-800-752-7869(USA)

product information,

please call a telephone

Extension 2

number listed below. 1-312-906-6194 (CANADA) 1-613-996-6666 (CANADA)

MANUFACTURER/SUPPLIER: Safety-Kleen Corp.

One Brinckman Way Elgin, IL, 60123-7857 USA

1-800-669-5740

TECHNICAL INFORMATION: 1-800-265-2792

ISSUE: May 13, 1998 MSDS FORM NUMBER: 82479

SUPERSEDES: January 8, 1998 ORIGINAL ISSUE: October 31, 1988

APPROVED BY: MSDS Task Force PREPARED BY: Product MSDS Coordinator

AMERICA'S CHOICE MOTOR OIL MATERIAL SAFETY DATA SHEET FOR USA AND CANADA

	SECTION 2	COMPOSITION	ON/INFOR	RMATIO	N ON II	NGREDII	ENTS		
				OSHA PEL		ACGIH TLV			
WT% ^h	NAME	SYNONYM	CAS NO.	TWA mg/m ³	STEL	TWA mg/m ³	STEL mg/m ³	<u>LD</u> a	<u>rc</u> p
40 to 95	Lubricating oils, petroleum, hydro- treated spent	Hydrotreated paraffinic base oil	64742-58-1	5 ^C	N.Av.	5 ^C	10 ^{c,d}	>15000 ^e	f N.A
0 to 50	Residual oils (petroleum), solvent-dewaxed	Bright stock	64742-62-7	5 ^C	N.Av.	5 ^C	10 ^{c,d}	>10000 ^f	N.A
0 to 50	Residual oils (petroleum), hydrotreated	Bright stock	64742-57-0	5 ^C	N.Av	5 ^C	10 ^{C,d}	N.Av.	N.A
0 to 50	Lubricating oils, petroleum, C>25, hydrotreated bright-stock based	Bright stock	72623-83-7	5 ^C	N.Av.	5 ^C	10 ^{c,d}	>50009	N.Av
0 to 33**	Mineral oil	***	***	5 ^C	N.Av.	5 ^C	10 ^{C,d}	N.Av.	N.A
0 to 25	Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	N.Av.	72623-86-0	5 ^C	N.Av.	5 ^C	10 ^{c,d}	N.Av.	N.A
0 to 25	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, high visco		72623-85-9	5 ^C	N.Av.	5 ^C	10 ^{c,d}	N.Av.	N.A
0 to 25	Lubricating oils (petroleum), C20-50, hydrotreated neutra oil based		72623-87-1	5 ^C	N.Av.	5 ^C	10 ^{C,d}	>5000	N.Av
0 to 1.5	Phosphorodithioic acid, O-O-di-C1-14-alkyl esters, zinc salts*	Dialkyl (C1-C14) dithiophosphoric acid, zinc salt	68649-42-3	N.Av.	N.Av.	N.Av.	N.Av.	N.Av.	N.Av
N Av = No	ot Available	d _{Notice}	of Intended Ch	anges: N.A	v. (value to b	oe eliminated)			
1			otice of Intended Changes: N.Av. (value to be eliminated) ased on similar materials.						
	advised that the concentration	_00000000	abbit LD50 is g		2000 mg/ka				
	cret; however, it will fall within		Rabbit LD50 is g						
nade set	ACL, HOWEVER, IC WILL HOLL WILL HIT		taboli Eboo io g						

this range.

***Supplier advises that this is a trade secret.

this is the actual range which varies with each

batch of the product.

aOral-Rat LD50 (mg/kg)

bInhalation LC

^CBased on Oil mist, mineral.

^hEven though the concentration range does not fall under the ranges prescribed by WHMIS,

See 29 CFR 1910.1000(d)(2) and ACGIH Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices booklet (Appendix C) for the determination of exposure limits for mixtures. Consult an industrial hygienist or similar professional to confirm that the calculated exposure limits are appropriate.

AMERICA'S CHOICE MOTOR OIL MATERIAL SAFETY DATA SHEET FOR USA AND CANADA

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

CAUTION!

APPEARANCE

Liquid, amber, petroleum odor.

IMMEDIATE HAZARDS

Causes respiratory tract (nose, throat, and lungs), eye, and skin irritation.

POTENTIAL HEALTH EFFECTS

INHALATION High concentrations of vapor or mist may irritate the respiratory tract

(BREATHING): (nose, throat, and lungs).

EYES: Direct contact with product may cause irritation.

SKIN: Direct contact with product may cause irritation. A single, prolonged exposure

is not likely to cause the product to be absorbed through the skin in harmful

amounts.

INGESTION May cause throat irritation, nausea, vomiting, and diarrhea. Breathing

(SWALLOWING): product into the lungs during ingestion or vomiting may cause lung injury

and possible death.

MEDICAL CONDITIONS Individuals with pre-existing respiratory tract (nose, throat, and

AGGRAVATED BY lungs) and/or skin disorders may have increased susceptibility to

EXPOSURE: the effects of exposure.

CHRONIC: Prolonged or repeated skin contact may cause drying, cracking, redness,

itching, and/or swelling. Prolonged or repeated inhalation of oil mist may

cause oil pneumonia, lung tissue inflammation, and/or fibrous tissue formation.

CANCER No known carcinogenicity. For more information, see

INFORMATION: SECTION 11: CARCINOGENICITY.

Also see SECTION 15: CALIFORNIA.

SECTION 4: FIRST AID MEASURES

INHALATION: Remove to fresh air. If not breathing, give artificial respiration.

(BREATHING) If breathing is difficult, give oxygen. Someone should stay with victim. Get

medical attention if breathing difficulty persists.

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