*** IDENTIFICATION ***

MSDS RECORD NUMBER

: 1314587

PRODUCT NAME(S)

*

: TURBINE FUEL AVIATION, WIDE CUT TYPE

ESSO JET B

ESSO TURBO FUEL B

JET B

TURBO FUEL B F40 TURBO FUEL B JP4

PRODUCT IDENTIFICATION : MSDS Number : 000110

1005 14411561

DATE OF MSDS : 1995-05-18

*** MANUFACTURER INFORMATION ***

MANUFACTURER

: Imperial Oil (Products Division)

ADDRESS

: 111 St Clair Avenue West

Toronto Ontario Canada M5W 1K3

Telephone: 416-968-4111

*** SUPPLIER/DISTRIBUTOR INFORMATION ***

SUPPLIER/DISTRIBUTOR

: Imperial Oil (Products Division)

ADDRESS

: 111 St Clair Avenue West

Toronto Ontario Canada M5W 1K3

Telephone: 416-968-4111

*** MATERIAL SAFETY DATA ***

Date Prepared: May 18, 1995 Supersedes: April 13, 1994

MSDS Number : 000110

1. PRODUCT INFORMATION

Product Identifier: TURBINE FUEL AVIATION, WIDE CUT TYPE

ESSO JET B

ESSO TURBO FUEL B

JET B

TURBO FUEL B F40 TURBO FUEL B JP4

Application and Use:

Naphtha-kerosene blended aviation fuel for turbine-powered

aircraft

Product Description:

A mixture of aliphatic and aromatic hydrocarbons and additives.

REGULATORY CLASSIFICATION

WHMIS:

Class B, Division 2: Flammable Liquids.

Class D, Division 2, Subdivision A: Very Toxic Material.

Class D, Division 2, Subdivision B: Toxic Material

CEPA: CANADIAN ENVIRONMENTAL PROTECTION ACT

All components of this product are either on the Domestic

Substances List (DSL) or are exempt.

TRANSPORTATION OF DANGEROUS GOODS INFORMATION

Shipping Name: Fuel, Aviation, Turbine Engine

Class: Flammable Liquid 3.1 Packing Group: II

PIN Number: UN1863 Guide Number: 120

Please be aware that other regulations may apply.

TELEPHONE NUMBERS

MANUFACTURER/SUPPLIER:

Emergency 24 hr. (519) 339-2145 Technical Info. (800) 268-3183 IMPERIAL OIL
Products Division
111 St Clair Avenue West
Toronto, Ontario
M5W 1K3

(416) 968-4111

2. REGULATED COMPONENTS

The following components are defined in accordance with sub-paragraph 13(a) (i) to (iv) or paragraph 14(a) of the Hazardous Products Act:

NAME % CAS #

Kerosene, straight run 40-70 V/V 8008-20-6 LD50:>5g/kg,oral,rat

Naphtha, full range 30-60 V/V 64741-42-0

Ethylene Glycol Monomethyl Ether 0-0.15 V/V 109-86-4 LD50:2.4g/kg,orl,rat

LD50:0.8g/kg,orl,rab

Diethylene Glycol Monomethyl 0-0.15 V/V 111-77-3 LD50:9.2g/kg,orl,rat LD50:0.6g/kg,skn.rbt

3. TYPICAL PHYSICAL & CHEMICAL PROPERTIES

Physical State: Liquid

Specific gravity: no' vailable

Viscosity: 0.6. cSt at 40 deg C

Vapour Density: 4

Boiling Point: 40 to 243 deg C Evaporation rate: (1 (1= n-butylacetate)

Solubility in water: negligible

Freezing/Pour Point: -53 deg C less than

Odour Threshold: not available
Vapour Pressure: 21 kPa at 38 deg C
Density: 0.78 g/cc at 15 deg C

Appearance/odour: White or pale yellow liquid, petroleum odour

. HEALTH HAZARD INFORMATION

NATURE OF HAZARD

INHALATION:

Negligible hazard at normal temperatures (up to 38 deg C). High vapour concentrations are irritating to the eyes, nose, throat and lungs; may cause headaches and dizziness; may be anesthetic and may cause other central nervous system effects. Avoid breathing vapours or mists.

EYE CONTACT:

Slightly irritating, but will not injure eye tissue.

SKIN CONTACT:

Irritating.

Frequent or prolonged contact may irritate the skin and cause a skin rash (dermatitis).

Low toxicity.

INGESTION:

Low toxicity.

Small amounts of this liquid drawn into the lungs from swallowing or vomiting may cause severe health effects (e.g. bronchopneumonia or pulmonary edema).

CHRONIC:

May contain ethylene glycol monomethyl ether (EGME). Prolonged and/or repeated exposure through inhalation or extensive skin contact with EGME may result in toxic effects on the blood, the blood producing system, the kidneys, the male reproductive system and the embryo/fetus. Contains benzene. Human health studies (epidemiology) indicate that prolonged and/or repeated overexposures to benzene may cause damage to the blood producing system and serious blood disorders, including leukemia.

Animal tests suggest that prolonged and/or repeated overexposures to benzene may damage the embryo/fetus. The relationship of these animal

studies to humans has not been fully established.

Contains n-hexane. plonged and/or repeated a psures may cause damage to the peripheral nervous system (e.g. fingers, feet, arms etc.). Contains diethylene glycol monomethyl ether (DIEGME). Prolonged and repeated exposure through inhalation or extensive skin contact with DIEGME may result in toxic effects on the kidneys, the reproductive system and/or the embryo/fetus.

ACUTE TOXICITY DATA:

Based on animal testing data from similar materials and products, the acute toxicity of this product is expected to be:

Oral : LD50 > 5000 mg/kg (Rat)
Dermal : LD50 > 2000 mg/kg (Rabbit)
Inhalation : LC50 > 2500 mg/m3 (Rat)

OCCUPATIONAL EXPOSURE LIMIT

Manufacturer recommends: 100 ppm based on composition.

For Benzene (skin) 1) 5 ppm TWA for 8 hrs/day 2) 3 ppm TWA for 12 hrs/day 3) 250 ppm minutes for 5 to 30 minutes.

ACGIH recommends:

For n-Hexane, 50 ppm (180 mg/m3).

For Benzene, the ACGIH recommends a TLV of 10 ppm (30 mg/m3), and describes it as a substance of suspect carcinogenic potential in man. For 2-Methoxyethanol, (skin) 5 ppm (16 mg/m3).

Local regulated limits may vary.

.. FIRST AID MEASURES

INHALATION:

In emergency situations use proper respiratory protection to immediately remove the affected victim from exposure. Administer artificial respiration if breathing has stopped. Keep at rest. Call for prompt medical attention.

EYE CONTACT:

Flush eyes with large amounts of water until irritation subsides. If irritation persists, get medical attention.

SKIN CONTACT:

Immediately flush with large amounts of water. Use soap if available. Remove contaminated clothing, including shoes, after flushing has begun. If irritation persists, seek medical attention.

INGESTION:

DO NOT induce vomiting since it is important that no amount of the material should enter the lungs (aspiration). Keep at rest. Get

prompt medical attention.

6. PREVENTIVE AND CORRECTIVE MEASURES

PERSONAL PROTECTION:

The selection of personal protective equipment varies, depending upon conditions of use.

Where prolonged and/or repeated skin and eye contact is likely to occur, wear safety glasses with side shields, long sleeves, and chemical resistant gloves.

Where skin and eye contact is unlikely, but may occur as a result of short and/or periodic exposures, wear long sleeves and safety glasses with side shields.

Where concentrations in air may exceed the occupational exposure limits given in Section 4 and where engineering, work practices or other means of exposure reduction are not adequate, approved respirators may be necessary to prevent overexposure by inhalation.

ENGINEERING CONTROLS:

The use of local exhaust ventilation is recommended to control emissions near the source. Laboratory samples should be handled in a fumehood. Provide mechanical ventilation of confined spaces. Use explosion-proof ventilation equipment.

HANDLING, STORAGE AND SHIPPING:

Keep containers closed. Handle and open containers with care. Store in a cool, well ventilated place away from incompatible materials. In keeping with good personal hygiene practices, wash hands thoroughly after handling the material.

Store and load at normal (up to 38 deg C) temperature and at atmospheric pressure.

Material will accumulate static charges which may cause a spark. Static charge build-up could become an ignition source. Use proper relaxation and grounding procedures.

Empty containers may contain product residue. Do not pressurize cut, heat, or weld empty containers. Do not reuse empty containers without commercial cleaning or reconditioning.

LAND SPILL:

Eliminate source of ignition. Keep public away. Prevent additional discharge of material, if possible to do so without hazard. Vapours or dust may be harmful or fatal. Warn occupants of downwind areas.

Prevent spills from entering sewers, watercourses or low areas. Contain spilled liquid with sand or earth. Do not use combustible materials such as sawdust.

Recover by pumping (use an explosion proof motor or hand pump), or by using a suitable absorbent.

Consult an expert on disposal of recovered material. Ensure disposal in compliance with government requirements and ensure conformity to local disposal regulations. Notify the appropriate authorities immediately.

Take all additional action necessary to prevent and remedy the adverse effects of the spi

WATER SPILL:

Eliminate all sources of ignition. Vapours or dust may be harmful or fatal. Warn occupants and shipping in downwind areas. Consult an expert on disposal of recovered material. Ensure disposal in compliance with government requirements and ensure conformity to local disposal regulations. Notify the appropriate authorities immediately. Take all additional action necessary to prevent and remedy the adverse effects of the spill.

. FIRE AND EXPLOSION HAZARD

-lashpoint and method: -18 deg C COC D92

Autoignition: NA Flammable Limits: LEL: 0.6% UEL: 8.0%

GENERAL HAZARDS

Extremely flammable; material will readily ignite at normal temperatures. Flammable Liquid; may release vapours that form flammable mixtures at or above the flash point.

Toxic gases will form upon combustion.

Static Discharge; material may accumulate static charges which may cause a fire.

FIRE FIGHTING:

Use water spray to cool fire exposed surfaces and to protect personnel. Shut off fuel to fire if possible to do so without hazard. If a leak or spill has not ignited use water spray to disperse the vapours. Either allow fire to burn out under controlled conditions or extinguish with foam or dry chemical. Try to cover liquid spills with foam. Respiratory and eye protection required for fire fighting personnel. Avoid spraying water directly into storage containers due to danger of boilover.

A self-contained breathing apparatus (SCBA) should be used for all indoor fires and any significant outdoor fires. For small outdoor fires, which may easily be extinguished with a portable fire extinguisher, use of an SCBA may not be required.

HAZARDOUS COMBUSTION PRODUCTS:

Smoke, carbon monoxide, carbon dioxide

8. REACTIVITY DATA

STABILITY:

This product is stable. Hazardous polymerization will not occur.

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:

Strong oxidizing agenus

HAZARDOUS DECOMPOSITION:

none

9. NOTES

10. PREPARATION

Date Prepared: May 18, 1995

Prepared by: LUBRICANTS AND SPECIALTIES

IMPERIAL OIL
Products Division

111 St Clair Avenue West

Toronto, Ontario

M5W 1K3

(800) 268-3183

CAUTION: "The information contained herein relates only to this product or material and may not be valid when used in combination with any other product or material or in any process. If the product is not to be used for a purpose or under conditions which are normal or reasonably foreseeable, this information cannot be relied upon as complete or applicable. For greater ertainty, uses other than those described in Section 1 must be reviewed with the supplier. The information contained herein is based on the information available at the indicated date of preparation. This MSDS is for the use of Imperial Oil customers and their employees and agents only. Any further distribution of this MSDS by Imperial Oil customers is prohibited without the written consent of Imperial Oil."

TRADE NAMES

Canadian Centre for Occupational Health and Safety

*** IDENTIFICATION ***

RECORD NUMBER : 103065 : ENGLISH LANGUAGE

TRADE NAME (S) : DIESEL FUEL

PRODUCT IDENTIFICATION DATA: CHEMICAL CODE: 3727-3736, 3738, 3739, 3751-03

Trade Names: Diesel 20X, 0, 15, 20, 25, 30, 40, 40S, 50, 60 Diesel AA, Diesel GM 35, 45 Domestic

Marine Diesel, Power Plus Diesel

1988-04-04 DATE OF MSDS

*** MANUFACTURER INFORMATION ***

MANUFACTURER

ADDRESS

: PETRO-CANADA INC : POST OFFICE BOX 2844 PETRO-CANADA CENTRE CALGARY ALBERTA

CANADA T2P 3E3 Telephone: 403-296-3000

: 403-296-3000 EMERGENCY TELEPHONE NO. (S)

DISCLAIMER:

NOTE FROM PETRO-CANADA: PETRO-CANADA INC AND ITS AFFILIATES ASSUME NO RESPONSIBILITY FOR INJURY TO ANYONE CAUSED BY THE MATERIAL IF REASONABLE SAFETY PROCEDURES ARE NOT ADHERED TO AS STIPULATED IN THE DATA SHEET. ADDITIONALLY, PETRO-CANADA INC AND ITS AFFILIATES ASSUME NO RESPONSIBILITY FOR INJURY TO ANYONE CAUSED BY ABNORMAL USE OF THE MATERIAL EVEN IF REASONABLE SAFETY PROCEDURES ARE FOLLOWED. FURTHERMORE, VENDEE AND THIRD PERSONS ASSUME THE RISK IN THEIR USE OF THE MATERIAL.

*** MATERIAL SAFETY DATA ***

MATERIAL SAFETY DATA SHEET

WHMIS CLASSIFICATION

Combustible Liquid (Class B3) Poisonous Material (Class D2)

CHEMICAL CODE: 3727-3736, 3738, 3739,

3751-03

DATE: April 4, 1988

MATERIAL IDENTIFICATION

_______ DIESEL FUEL Trade Name:

Diesel 20X, 0, 15, 20, 25, 30, 40, 40S, 50, 60 Other Names:

Diesel AA, Diesel GM 35, 45

Domestic Marine Diesel, Power Plus Diesel

Chemical Synonyms and Family: Petroleum hydrocarbon --

reson Control Centre Numbers: Constul local telephone directory for emergency

numbers.

Diesel Fuels are distillate fuels suitable for' plication: use in high and medium speed internal

combustion engines of the compression ignition

type.

```
SECTION II TRAN DRTATION (NR - Not Regula 1 by TDG)
UN Number: 1233
--imary Classification: NR
  sidiary Classification: NR
 mpatibility Groups: NR
CANUTEC Transport Emergency No.: (613) 996-6666
______
SECTION III COMPOSITION
% (VOL.)
                                            CAS #
COMPONENTS
------
                                           _____
Complex mixture of
                      >99.9
                                           68334-30-5
petroleum hydrocarbons*
(C9-C18)
       ALLOWABLE LIMITS (8 Hr.) 5 mg/m3 (oil mist) **
Anti-static additive, cetane <0.1
                                          N/A
improver, pour point depressant
   ALLOWABLE LIMITS (8 Hr.) N/A
* Aromatic content is 38% maximum (Benzene nil)
** Petro-Canada recommendation
_______
         PHYSICAL DATA
SECTION IV
______
                      0.78 - 0.90 \text{ kg/L}
Density (at 15 deg C):
Vapour Pressure (at 25 deg C): 1 kPA (approx.)

Vapour Density (at 20 deg C): 4.5 (approx.)
                            Insoluable
 ubility in Water:
  cosity (Kinematic):
                            1.2-4.1 cSt (@ 40 deg C)
                            145-371 deg C (approx.)
__iling point/Range (at 1 atm):
Percent Volatile (@ 20 deg C):
                            25% in 10 Hr. (approx.)
Evaporation Rate:
                            N/A
                            -45 to -6 deg C (-50 to 20 deg F)
Pour Point:
                            Clear to yellow, bright oily liquid
Appearance & Odour:
                            with hydrocarbon odour. **
SECTION V FIRE & EXPLOSION DATA
______
Flash Point (method used = TCT): 40 deg C (minimum)
Flammable limits in air Lower 0.7% Upper 6.0%
(% by volume):
Auto-Ignition Temperature:
                       >225 deg C
                        Treat as combustible liquid.
Fire and Explosion Hazards:
                        Foam, dry chemical, carbon dioxide for small
Extinguishing media:
                        fires, water spray. Do not cut, drill or
                         weld empty containers.
                         Use full protective equipment and self-
Firefighting Procedures:
                         contained breathing apparatus. Cover with
                         extinguishing agent. Use water spray to
                         cool fire-exposed containers and as a
                         protective screen. Do not point solid water
                         stream directly into burning product to
                         avoid spreading fire.
MODERATE FIRE HAZARD
HEALTH HAZARD INFORMATION
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SECTION VI

Toxicity Data

*Estimated acute LD50 = 7650 mg/kg (rat, oral): practically non-toxic.

Rabbit primary dermal irritation index (Draize) =

6.8 : extremely irritating.

Rabbit eye irritation index (Draize) = 0: non-irritating.

Effects of Overexposure -----

Inhalation:

Skin and Eyes:

Inhalation of vapours or mist will cause

headaches, nausea, dizziness, and intoxication; severe central nervous system depressant. Irritation, defatting and drying of skin.

Prolonged exposure to skin may cause chapping, cracking or possibly dermatitis. Eye contact'may cause irritation, but not permanent damage.

* Based on API Study #79-6 on Diesel Fuel where LD50 = 9.0 ml/kg..

** May be dyed purple or red for taxation purposes.

Emergency and First Aid Procedures Information

Remove contaminated clothing - launder before reuse. Skin:

Soap and water wash. Discard saturated leather articles.

Copious warm water flush - 15 minutes. Physician Eyes:

assessment mandatory.

Evacuate to fresh air. Apply Cardio Pulmonary Inhalation:

Resuscitation if required. Administer oxygen if available. If resuscitation is required, physician

assessment mandatory.

DO NOT INDUCE VOMITING. If vomiting - take care to stion:

prevent aspiration. Give 250 ml (1/2 pint) of milk.

Mandatory physician assessment.

Notes to Physician

Gastric lavage should only be done after endotracheal intubation in view of the risk of aspiration which can cause serious chemical pneumonitis for which antibiotic

and corticosteriod therapy may be indicated.

SECTION VII REACTIVITY DATA

Stable under normal storage and use. Conditions to avoid: Excessive heat, sources of ignition,

formation of oil mist.

Strong oxidizing agents (strong acids, Materials to avoid:

peroxides, chlorine, etc.).

No.

Hazardous decomposition products: COx, SOx, smoke on combustion. Can hazardous

polymerization occur?:

- -

SECTION VIII SPILL OR LEAK PROCEDURES

is released or spilled:

Steps to be taken if material Avoid contact. Use full protective equipment and breathing apparatus if required. ELIMINATE IGNITION SOURCES. Contain spill. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using electrically grounded explosion-proof pumps. Place absorbent in closed metal

containers. F NOT FLUSH TO SEWER.

Waste Disposal Method:

Incinerate at licenced waste reclaimer facility.

ECTION IX SPECIAL PROTECTION INFORMATION

Ventilation: General ventilation. Use explosion-proof

mechanical ventilation suitable for group D

atmospheres.

Respiratory Protection: Up to 5 mg/m3 (oil mist), none required. From 5

to 50 mg/m3, use an approved organic vapour respirator suitable for oil mist in areas with sufficient oxygen. Above 50 mg/m3, use full-fac

air-supplied or self-contained breathing

apparatus.

Protective Gloves: NITRILE, VITON

Eye Protection: Chemical goggles if splashing likely.

Other Protective Clothing: Chemical resistant clothing if direct contact

with liquid likely. DO NOT USE NATURAL RUBBER (

_ _

PVC (polyvinyl chloride).

SECTION X SPECIAL PRECAUTIONS

Store in cool, well-ventilated area. Electrically ground/bond during pumping or transfer to avoid static accumulation. AVOID SKIN CONTACT AND INHALATION. Practice good personal hygiene. DO NOT SIPHON BY MOUTH OR USE AS A CLEANING SOLVENT. Launder work clothes frequently. Petro-Canada recommends an allowable exposure of 5 mg/m3 (oil mist) when handling DIESEL FUELS.

CTION XI REFERENCES

ACGIH, Threshold Limit Values and Biological Exposure Indices for 1987-88. CONCAWE, First Aid Measures, Medical Toxicology Data and Professional Advice t Clinicians on Petroleum Products, February 1983.

API, Petroleum Process Stream Terms Included in the Chemical Substances Inventory Under the Toxic Substances Control Act (TSCA), 1983
Environment Canada Manual for Spills of Hazardous Materials, March, 1984.
NIOSH, The Industrial Environment - Its Evaluation and Control, 1973.
Patty's Industrial Hygiene and Toxicology, 3rd Edition, Vol. 2B, 1981.
API, The Toxicology of Petroleum Hydrocarbons, May, 1982.
API, Acute Toxicity Tests on Diesel Fuel, API #79-6, 1980.

Prepared by Health, Safety & Security Cette fiche est aussi disponible en français.

ISN: 103065



MATERIAL SAFETY DATA SHEET

Canadian Oxygen Limited The Corporate Centre 89 Queensway West Mississauga Ontario L5B 2V2

-

PRODUCT INFORMATION

PRODUCT NAME: Propane CHEMICAL FAMILY: Aliphatic

Hydrocarbon

SYNONYMS: Liquified Petroleum Gas

(LPG), Dimethyl Methane

TDG CLASSIFICATION: 2.1 UN 1075

CANOX 24 HR. TELEPHONE NO. 416-251-5241

CANUTEC TELEPHONE NO.

613-996-6666 2-0101

EMERGENCY RESPONSE NO.

HAZARDOUS INGREDIENTS

COMPONENT FORMULA

CONCENTRATION

CAS #

Propane

C3Hg

100%

74-98-6

PREPARATION INFORMATION

PREPARED BY: Gas Products Dept.

DATE PREPARED: January, 1989

PHONE NO .:

(416) 273-7700

HEALTH HAZARD DATA

TIME WEIGHTED AVERAGE EXPOSURE LIMIT:

Propane is defined as a simple asphyxiant. Oxygen levels should be maintained at greater than 18 molar percent at normal atmospheric pressure.

SYMPTOMS OF EXPOSURE:

Effects of exposure to high concentrations so as to displace the oxygen in the air necessary for life may include any, all or none of the following:

- Loss of balance or dizziness;
- Tightness in the frontal area of the forehead;
- Tingling of the tongue, fingertips or toes;
- Weakened speech leading to the inability to utter sounds;
- Rapid reduction in the ability to perform movements;
- Reduced consciousness of the surroundings;
- Loss of tactile sensations;
- Heightened mental activity.

C3H8 Page 1 of 4

It should be recognized .at it is possible that none of a above symptoms may occur in asphyxia so that there are no definite warning symptoms.

Contact with rapidly evaporating liquid could cause frostbite or cryogenic "burns".

TOXICOLOGICAL PROPERTIES

Breathing high concentrations causes a narcotic effect; however, the major property is the exclusion of an adequate supply of oxygen to the lungs.

Frostbite effects are a change in colour of the skin to gray or white possibly followed by blistering.

FIRST AID

PROMPT MEDICAL ATTENTION IS MANDATORY IN ALL CASES OF OVEREXPOSURE TO PROPANE.
RESCUE PERSONNEL SHOULD BE EQUIPPED WITH SELF-CONTAINED BREATHING APPARATUS AND BE
COGNIZANT OF EXTREME FIRE AND EXPLOSTION HAZARD.

Inhalation: Conscious persons should be assisted to an uncontaminated area and inhale fresh air. Quick removal from the contaminated area is most important. Unconscious persons should be moved to an uncontaminated area, given mouth-to-mouth resuscitation and supplemental oxygen. Further treatment should be symptomatic and supportive.

Dermal Contact or Frostbite: Remove contaminated clothing and flush affected areas with lukewarm water. DO NOT USE HOT WATER. A physician should see the patient promptly if the cryogenic "burn" has resulted in blistering of the dermal surface or deep tissue freezing.

PHYSICAL DATA

Boiling Point: -42.1°C (-43.7°F)

Liquid Density @ Boiling Point: 582 kg/m³ (36.3 lb/ft³)

Vapor Pressure @ 21.1°C (70°F): 895 kPa (127 psia)

Specific Gravity @ 21.1°C (70°F) 1 atm (Air=1): 1.56

Solubility in Water: Negligible

Freezing Point: -187.7°C (-305.8°F)

Appearance and Odour: Colourless, unpleasant gas (odour caused by odourant)

FIRE/EXPLOSION HAZARDS DATA

Flash Point (Method Used): -104°C (-156°F) Closed cup

Auto Ignition Temperature: 480°C (896°F)

CaHa Page 2 of 4

Flammability Limits: LEL: 2.2% UEL: 9.5%

Extinguishing Media: Water, carbon dioxide, dry chemical

Electrical Classification: Class 1, Group D

Special Fire Fighting Procedures: If possible, stop the flow of propane. Use water spray to cool surrounding containers.

Unusual Fire and Explosion Hazards: Propane is heavier than air and may travel a considerable distance to a source of ignition. Should flame be extinguished and flow of gas continue, increase ventiliation to prevent flammable mixture formation in low areas of pockets.

REACTIVITY DATA

Stability: Stable

Incompatibility (Material to Avoid): Oxidizers

Hazardous Decomposition Products: Carbon Monoxide

Hazardous Polymerization: Will not occur

Hazardous Mixtures of Other Liquids, Solids or Gases: Propane is flammable over a wide range in air.

PREVENTIVE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Evacuate all personnel from affected area. Use appropriate protective equipment. If leak is in user's equipment, be certain to purge piping with an inert gas prior to attempting repairs. If leak is in container or container valve, contact CANUTEC for emergency assistance or your closest CANOX location.

Waste Disposal Method:

Do not attempt to dispose of waste or unused quantities. Return in the shipping container properly labelled, with any valve outlet plugs or caps secured and valve protection cap in place to CANOX for proper disposal.

ENGINEERING CONTROLS:

Ventilation: Hood with forced ventilation

Local Exhaust: To prevent accumulation above the LEL.

Mechanical (Gen.): In accordance with electrical codes.

PERSONAL PROTECTIVE EQUIPMENT:

Respiratory Protection: Positive pressure air line with mask or self-contained breathing apparatus should be available for emergency use.

Protective Gloves: Plastic or rubber

Eye Protection: Safety goggles or glasses

Other Protective Equipment: Safety shoes, safety shower

SPECIAL PRECAUTIONS

Special Labelling Information:

TDG Shipping Name: Liquified Petroleum Gas (Propane)

TDG Classification: 2.1 UN 1075

Special Handling Recommendations:

Use only in well-ventilated areas. Valve protection caps must remain in place unless container is secured with valve outlet piped to use point. Do not drag, slide or roll cylinders. Use a suitable hand truck for cylinder movement. Use a pressure reducing regulator when connecting cylinder to low pressure (<1720 kPa (250 psig)) piping or systems. Do not heat cylinder by any means to increase the discharge rate of product from the cylinder. Use a check valve or trap in the discharge line to prevent hazardous back flow into the cylinder.

For additional recommendations, consult Compressed Gas Association pamphlets P-1, P-14 and Safety Bulletin SB-2.

Special Storage Recommendations:

Protect cylinders from physical damage. Store in cool, dry well-ventilated area away from heavily trafficked areas and emergency exits. Do not allow the temperature where cylinders are stored to exceed 54°C (130°F). Cylinders should be stored upright and firmly secured to prevent falling or being knocked over. Full and empty cylinders should be segregated. Use a "first in-first out" inventory system to prevent full cylinders being stored for excessive periods of time. Post "No Smoking or Open Flames" signs in the storage or use area. There should be no sources of ignition in the storage or use area.

For additional storage recommendations, consult Compressed Gas Association pamphlets P-1 and P-14 and Safety Bulletin SB-2.

Special Packaging Recommendations:

Propane is noncorrosive and may be used with any common structural material.

Other Recommendations or Precautions:

Earth-ground and bond all lines and equipment associated with propane system. Electrical equipment should be non-sparking or explosion proof. Compressed gas cylinders should not be refilled except by qualified producers of compressed gases. Shipment of a compressed gas cylinder which has not been filled by the owner or with his (written) consent is a violation of Federal Law.

MATERIAL SAFETY DATA SHEET



Date Prepared: October 23, 1991 Supersedes: July 22, 1991 MSDS Number: 223620

Cette fiche signalétique est aussi disponible en français

1. PRODUCT INFORMATION

Product Identifier: ESSOLUBE XD-3 EXTRA 20W-20

Application and Use: Premium quality universal engine oil for use in severe service, heavy duty, diesel and gasoline engines

Product Description:

A lubricating oil consisting of a mixture of saturated and unsaturated hydrocarbons derived from paraffinic distillate, and additives.

REGULATORY CLASSIFICATION

WHMIS:

NOT A CONTROLLED PRODUCT

TRANSPORTATION OF DANGEROUS GOODS INFORMATION

Shipping Name: Petroleum Lubricating Oil PIN Number: Not applicable Packing Group: Not applicable Not applicable Guide Number: 129

Please be aware that other regulations may apply.

TELEPHONE NUMBERS

MANUFACTURER/SUPPLIER:

Emergency 24 hr. Technical Info. (519) 339-2145 (416) 968-5114 Esso Petroleum Canada 55 St Clair Avenue West Toronto, Ontario M5W 2J8

2. REGULATED COMPONENTS

The following components are defined in accordance with sub-paragraph 13(a) (i) to (iv) or paragraph 14(a) of the Hazardous Products Act:

NAME

CAS # %

No regulated components

3. TYPICAL PHYSICAL & CHEMICAL PROPERTIES

Physical State: Liquid Physical State: Liquid
Specific gravity: not available
Viscosity: 8.40 cSt at 100 deg C
Vapour Density: not available
Boiling Point: 310 to 600 deg C
Evaporation rate: <1 1 = n-butylacetate
Solubility in water: negligible
Freezing/Pour Point: -27 deg C POUR
Odour Threshold: not available
Vapour Pressure: <1 kPa at 38 deg C
Density: 0.89 g/cc at 15 deg C
Appearance/odour: Amber liquid, petroleum odour

4. HEALTH HAZARD INFORMATION

NATURE OF HAZARD

INHALATION:

Negligible hazard at normal temperatures (up to 38 deg C). Elevated temperatures or mechanical action may form vapours, mists or fumes which may be irritating to the eyes, nose, throat and lungs. Avoid breathing vapours or mists.

EYE CONTACT:

Slightly irritating, but will not injure eye tissue.

SKIN CONTACT:

ow toxicity requent or prolonged contact may irritate the skin.

INGESTION:

Low toxicity

CHRONIC:

Prolonged and/or repeated contact with used gasoline engine oil has caused skin cancer in experimental animals. The relationship of these results to humans has not been fully established.

Based on animal testing data from similar materials and products,

the acute toxicity of this product is expected to be.

Oral : LD50 > 5000 mg/kg (Rat)

Dermal : LD50 > 3160 mg/kg (Rabbit)

Inhalation : LC50 > 5000 mg/m3 (Rat)

OCCUPATIONAL EXPOSURE LIMIT:

ACGIH recommends: For oil mists, 5 mg/m3.

Local regulated limits may vary

5. FIRST AID MEASURES

INHALATION:

Vapour pressure of this material is low and as such inhalation under normal conditions is usually not a problem. If overexposed to oil mist, remove from further exposure. Administer artificial respiration if breathing has stopped. Keep at rest. Call for prompt medical attention.

Flush eyes with large amounts of water until irritation subsides. If irritation persists, get medical attention.

Flush with large amounts of water. Use soap if available. Remove severely contaminated clothing (including shoes) and launder before reuse.

If irritation persists, seek medical attention.

INGESTION:

If swallowed, DO NOT induce vomiting. Keep at rest. Get prompt medical attention.

6. PREVENTIVE AND CORRECTIVE MEASURES

PERSONAL PROTECTION:

The selection of personal protective equipment varies, depending upon conditions of use.

Where prolonged and/or repeated skin and eye contact is likely to occur, wear safety glasses with side shields, long sleeves, and chemical resistant gloves.

resistant gloves.

Where eye contact is unlikely, but may occur as a result of short and/or periodic exposures, wear safety glasses with side shields. Where concentrations in air may exceed the occupational exposure limits given in Section 4 and where engineering, work practices or other means of exposure reduction are not adequate, approved respirators may be necessary to prevent overexposure by inhalation.

ENGINEERING CONTROLS:

The use of local exhaust ventilation is recommended to control emissions near the source. Laboratory samples should be handled in a furnehood. Provide mechanical ventilation of confined spaces.

HANDLING, STORAGE AND SHIPPING:

Keep containers closed. Handle and open containers with care. Store in a cool, well ventilated place away from incompatible materials. Do not handle or store near an open flame, sources of heat, or sources of ignition.

Empty containers may contain product residue. Do not pressurize cut, heat, or weld empty containers. Do not reuse empty containers without commercial cleaning or reconditioning.

LAND SPILL:

Eliminate source of ignition. Keep public away. Prevent additional discharge of material, if possible to do so without hazard. Prevent spills from entering sewers, watercourses or low areas. Contain spilled liquid with sand or earth.

Recover by pumping or by using a suitable absorbant.

Consult an expert on disposal of recovered material. Ensure disposal in

ESSO PETROLEUM CANADA

A DIVISION OF IMPERIAL OIL

ESSOLUBE XD-3 EXTRA 20W-20

MATERIAL SAFETY DATA SHEET



compliance with government requirements and ensure conformity to local disposal regulations. Notify the appropriate authorities immediately. Take all additional action necessary to prevent and remedy the adverse effects of the spill.

WATER SPILL:

Remove from surface by skimming or with suitable absorbents. If allowed by local authorities and environmental agencies, sinking and/or suitable dispersants may be used in unconfined waters.

Consult an expert on disposal of recovered material. Ensure disposal in compliance with government requirements and ensure conformity to local disposal regulations. Notify the appropriate authorities immediately. Take all additional action necessary to prevent and remedy the adverse effects of the spill.

7. FIRE AND EXPLOSION HAZARD

Flashpoint and method: 215 deg C CO D92

Autoignition: 330 deg C Flammable Limits: LEL: NA UEL: NA

GENERAL HAZARDS:

Low Hazard; liquids may burn upon heating to temperatures at or above the Toxic gases will form upon combustion.

FIRE FIGHTING:

Use water spray to cool fire exposed surfaces and to protect personnel.

Use foam, dry chemical or water spray to extinguish fire. Respiratory and eye protection required for fire fighting personnel. Avoid spraying water directly into storage containers due to danger of heiloure.

politover.

A self-contained breathing apparatus (SCBA) should be used for all indoor fires and any significant outdoor fires. For small outdoor fires, which may easily be extinguished with a portable fire extinguisher, use of an SCBA may not be required.

HAZARDOUS COMBUSTION PRODUCTS:

Smoke, carbon monoxide, carbon dioxide and traces of oxides of sulphur

8. REACTIVITY DATA

STABILITY:

This product is stable. Hazardous polymerization will not occur.

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:

Strong oxidizing agents

HAZARDOUS DECOMPOSITION:

none

9. NOTES

NA = not available

10. PREPARATION

Date Prepared : Prepared by:

: July 22, 1991 LUBRICANTS AND SPECIALTIES ESSO PETROLEUM CANADA 55 St Clair Avenue West Toronto, Ontario M5W 2J8 (416) 968-5114

CAUTION

CAUTION: "The information contained herein relates only to this product or material and may not be valid when used in combination with any other product or material or in any process. If the product is not to be used for a purpose or under conditions which are normal or reasonably foreseable, this information cannot be relied upon as complete or applicable. For greater certainty, uses other than those described in Section 1 must be reviewed with the supplier. The information contained herein is based on the information available at the indicated date of preparation. This MSDS is for the use of Esso Petroleum Canada customers and their employees and agents only. Any further distribution of this MSDS by Esso Petroleum Canada customers is prohibited without the written consent of Esso Petroleum Canada."

DEFARTMENT OF LABOR AND INDUSTRIES INDUSTRIAL HYGIENE SECTION POB 207 OLYMPIA, WA 98504 753-6497



MATERIAL SAFETY DATA SHEET

PREPARATION/REVISION DATE

COMPLIES WITH WAC 296-6	62-05413		January 8, 19	391
ANUFACTURER'S NAME	SECTIONI	LEMEDOS	ICY TEL FOUCHERS	
		13.34.0.000.0000.0000.000	869-8650	
PND CORPORATION DDRESS (Number, Street, City, and ZIP Code)		(200)	869-8630	
1813 130th Avene N.E., Bellevue, Washington 9	98005			
HEMICAL NAME		AMAN NOMMO		
		PLUG N' DIKE		
HEMICAL FAMILY	FORMULA			
CLAY & POLYMER	N/A			
SECTION II H.	AZARDOUS IN			
CHEMICAL AND COMMON NAME	%	APPLICABLE EXPOSURE LIMITS		
	PEL-WISHA/OSHA	PEL-WISHA/OSHA	TLV-ACGIH	OTHER
NON-HAZARDOUS CHEMICALS	100			
Bentonite Blends (Hydrous Aluminum Silicate	es) 40-60	% N/A	N/A	N/A
Starch-g-poly(2-propenamide-co-2-propenoic				
acid, sodium salt)	<1	N/A	N/A	N/A
Water	40-50	N/A	N/A	N/A
onite (American Colloid Company)CAS NO.	1302 70 3			
CARCINO	GENIC INGRE	DIENTS		
CHEMICAL AND COMMON NAME	%	REFERENCE SOURCE		
CHEMICAL AND COMMON NAME	70	NTP	- IARC	WISHA/OSH/
N/A				

	SECTIONIII	IEALTH HAZARD DATA	
CUTE HEALTH EFFECTS None			
	1912		
	-		E CONTRACTOR
IRONIC HEALTH EFFECTS			
None			
DUTES OF ENTRY			
edical conditions aggravated by exposure None			
Avoid brea hing dust.	(Not applicable	for paste) The Dust is not regula	ated
PGENCY AND FIRST AID PROCEDURES			
None			
None Maintain good work/hygie	ne practices		
		flush with water	
Maintain good work/hygie		flush with water	
Maintain good work/hygie		flush with water	
Maintain good work/hygie		flush with water	
Maintain good work/hygie		flush with water	
Maintain good work/hygie			
Maintain good work/hygie	ontact with eyes		N/A
Maintain good work/hygie If dust should come in c	section is	CHEMICAL DATA	N/A N/A
Maintain good work/hygie If dust should come in c	SECTION N	CHEMICAL DATA SPECIFIC GRAVITY (H2O = 1)	
Maintain good work/hygie If dust should come in c DILING POINT (°F) APOR PRESSURE (mm Hg.) APOR DENSITY (AIR=1)	SECTION IN N/A N/A	CHEMICAL DATA SPECIFIC GRAVITY (H2O = 1) PERCENT VOLATILE BY VOLUME (%) EVAPORATION RATE (= 1)	N/A
Maintain good work/hygie If dust should come in c DILING POINT (°F) APOR PRESSURE (mm Hg.) APOR DENSITY (AIR=1)	SECTIONIN N/A	CHEMICAL DATA SPECIFIC GRAVITY (H2O = 1) PERCENT VOLATILE BY VOLUME (%) EVAPORATION RATE (= 1)	N/A
Maintain good work/hygie	SECTION IN N/A N/A	CHEMICAL DATA SPECIFIC GRAVITY (H2O = 1) PERCENT VOLATILE BY VOLUME (%) EVAPORATION RATE (= 1)	N/A

LASH POINT (Method	used)		SECTION V PHYSICAL	FLAMMABLE LIMITS		
NONE	2007			None	Lel	Uel
ISHING MEDIA						
ECIAL FIRE FIGHTING	PROCEDURES					
come in the ingriting			None			
1000						
		and the state of t				
NUSUAL FIRE AND EX	PLOSION HAZARDS		None			
Intelligence of the					-	
COMPATIBILITY (Mate	rials to avoid)		None			
7*PDOUS DECOMPO	SITION PRODUCTS		NOTIE			
			None			
	MAY OCCUR		CONDITIONS TO AVOID			
AZARDOUS OLYMERIZATION		-				
	WILL NOT OCCUR	X	None			
TABILITY	UNSTABLE					
TABLETT	STABLE	V				
	STABLE	X	CTION VI SPILL OR LE	AK PROCEDURES		
	CASE MATERIAL IS RELEAS	ED OR SPILI	ED			
		nemica.	spill or lead	k, pick up PLUG N' DIKE	and dispose	ın
solid waste	Tandili.					
* 1					Y DOWN THE REAL PROPERTY OF THE PARTY OF THE	
			-	and the second s		
ASTE DISPOSAL MET		a chem	ical leak, dist	pose of contaminated PI	TIC N' DIKE a	ccordin
				l it was in contact wit		
fe	deral, state or p	province	regulations i	for that waste.		

...

E	SECTION	VII EXPOSURE CONTROL IN	FORMATION	
RESPIRATORY PROTECT	TION (Specify type) None			
	LOCAL EXHAUST	1.	SPECIAL	
LATION	N/A		None	
ILATION	MECHANICAL (General) N/A		OTHER	
PROTECTIVE GLOVES		EYE PROTECTION		
	N/A	None (opt:	ional use of goggles for dust)	
OTHER PROTECTIVE EC	None			
OTHER ENGINEERING C			7.00	
	N/A			
		10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
WORK PRACTICES	121			
	None			
HYGIENIC PRACTICES	Maintain good work/hygie	ne practices		
	The Interior good work, my gree	TO PLUCCIOCO		
PRECAUTIONS TO BE T	SEC TAKEN IN HANDLING AND STORING	TION VIII SPECIAL PRECAU	TIONS	
		- Premix must be s	tored above 32 ^O F	
MAINTENANCE PERSON				
	N/A			
			and the second s	
TECAUTIONS		The state of the s		
	None			



POLY-DRILL DRILLING

EMERGENCY (403) 259-5112

1824 - 104 AVENUE, S.W. CALGARY, ALBERTA, CANADA T2W OA8 TEL. (403) 259-5112 FAX (403) 255-7185

I. PRODUCT IDENTIFICATION

Trade Name(s): 1330/133X

WHMIS CLASSIFICATION: Non regulated TDG Classification: Non dangerous goods

Manufacturer. Poly-Drill Drilling

IL PHYSICAL DATA

Boiling Point: Not available

Solubility in Water. Solubility-limited by solution viscosity

Density(g/ml): 1.08 at 25 C

Appearance and Odor: Blue, Odor slight.

Specific Gravity(@ 25 Deg.C): 1,09

pH: 8.1 (1% concentration) Physical state: Liquid

III. FIRE AND EXPLOSION DATA

Flash Point (Method used): (PMCC) >100 C

Conditions of flammability: Intense heat, open flame.

Hazardous combustion products: Products of incomplete hydrocarbon combustion.

Upper and Lower flammable limits: Not available. Extinguishing media: Use foam, dry chemical, CO2.

IV. REACTIVITY

Chemical stability: Stable under normal conditions

Hazardous Polymerization: Will not occur

Incompatible substances: Avoid strong oxidizers(e.g. chlorine, peroxides, chromates, nitric acid, perchlorates, concentrated

oxygen, permanganates) may generate heat, fires, explosions and toxic vapors.

Hazardous decomposition products: Carbon monoxide, carbon dioxide, and products of incomplete hydrocarbon combustion.

V. HEALTH HAZARD DATA

Routes of Exposure and Effects:

SKIN: Slight irritant. Prolonged contact may cause skin irritation or dermatitis in some individuals.

EYE: Slight to moderate transient eye irritation.

INHALATION: Not a likely route of exposure. High vapor concentrations may cause dizziness or nausea.

INGESTION: can cause nausea, vomiting, cramps, diarrhea.

Exposure limits: TLV-TWA: Mineral oil, mist 5 mg/m3

Carcinogenicity: None of the components of this product are listed as carcinogens by IARC and ACGIH.

Sensitization of product: Not suspected to be a scusitizer.

Teratogenicity: Not available Mutagenicity: Not available

VI. EMERGENCY AND FIRST AID PROCEDURES

KIN: Wash exposed area with soap and water. If irritation or abnormalities persist, call a physician. EYE: Immediately flush eyes with water for 15 minutes, if irritation or abnormalities persist, call a physician. INHALATION: Remove to fresh air. If breathing is difficult, give oxygen and call a physician. INGESTION: Do not induce vomiting. Call a physician immediately.

VII. HANDLING AND USE PRECAUTIONS

Storage requirements: Keep container closed when not in use. Store in a cool dry location away from oxidizing and reducing agents.

Waste Disposal: Product should be disposed of in accordance with applicable local, Provincial, and Federal regulations.

Steps must be taken is product is released or spilled. Clean spill areas thoroughly to avoid hazardous slippery conditions.

VII. INDUSTRIAL HYGIENE CONTROL MEASURES

Respiratory Protection: None normally required.

Ventilation: If mist and/or vapors are present, use air-puritying respirator of self-contained breathing apparatus, but rarely required.

Eye Protection: Safety glasses if personally preferred. Gloves: Generally not necessary. Personal preference.

DEPARTMENT OF TRANSPORTATION INFORMATION

Shipping Name: Drilling Mud Hazard Class: Not hazardous Hazardous Substances: None Cautionary Labeling: None required.

9909 CCZ CTO ADLITION

*** IDENTIFICATION ***

MSDS RECORD NUMBER : 1322365

PRODUCT NAME(S) : Calcium Chloride FRODUCT IDENTIFICATION : PRODUCT CODE: 93515

DATE OF MSDS : 1996-11-14

*** MANUFACTURER INFORMATION ***

MANUFACTURER : CHAMPION TECHNOLOGIES, LTD : 6555 - 30th Street South East

Calgary Alberta

Canada T2C 1R4

EMPRGENCY TELEPHONE NO. : 403-279-2835

613-996-6666 (CANUTEC)

*** SUPPLIER/DISTRIBUTOR INFORMATION ***

SUPPLIER/DISTRIBUTOR : CHAMPION TECHNOLOGIES, LTD

ADDRESS : 6555 - 30th Street South East

Calgary Alberta Canada T2C 1R4

EMERGENCY TELEPHONE NO. : 403-279-2835 613-996-6666 (CANUTEC)

*** MATERIAL SAFETY DATA ***

MATERIAL SAFETY DATA SHEET
Calcium Chloride

NUNAVUT WATER BOARD

FEB 1 9 1999

PUBLIC REGIST

SECTION 1 - IDENTIFICATION IBM 93515
CHAMPION TECHNOLOGIES, LTD. EMERGENCY TELEPHONE NUMBERS

CHAMPION TECHNOLOGIES, LTD. EMERGENCY TELEF 1-403-279-2835

(algary, Alberta T2C 1R4 1-613-996-6666 (CANUTEC)

Trade Name: Calcium Chloride

Chemical Family: Salt

Product Use: Industrial

Prepared by: J.Bursey

SECTION Z - HAZARDOUS INGREDIENTS/IDENTITY

hazardous Components CAS No. Wt.% LD50 LC50 CALCIUM CHLORIDE 10043-52-4 60-100 NA NA

SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS

Physical State: solid Vapor Point, C: ND Foiling Point, C: 204 Vapor Pressure: NA Vapor Density: ND NA Specific Gravity (H20=1): 2.2 Coeff. Water/Oil Dist.: ND Evaporation Rate: ND

Odour and Appearance: White to off white peppla

Language and Appointment and a contraction of the c

SECTION 4 - FIRE & EXPLOSION DATA

rlash Point, C & Method Flammable Limits: LEL,% NA UEL,% NA

NA PMCC Based on: NA

Autoignition Temp C: ND

Hazardous Combustion Products: Smoke, CO, CO2, & vapors

Explosion Data: ND Sensitivity to Static Discharge: ND

FIRE HAZARDS:

Flammable material may be ignited by heat, sparks, or flames. Vapours may travel to a source of ignition and flashback. Containers may explode in heat or fire. Vapour exploration hazard indoors, outdoors or in sewers. Run off to sewer may creat fire or explosion hazard.

EXTINGUISHING MEDIA:

Dry chemical, co2, water spray or regular foam. Move container from fire area if you can do it without risk. Apply cooling water to sides of containers that are exposed to flames until well after the fire is out. Stay away from ends of containers.

Abbreviations: NA=not available, NAP=not applicable, ND=not determined.

Calcium Chloride

SECTION 5 - PHYSICAL HAZARDS (REACTIVITY DATA)

Chemical Stability: STABLE Conditions To Avoid: NA

Incompatible Materials: Strong oxidizers

Hazardous Decomposition: Oxides of carbon and nitrogen

SECTION 6 - HEALTH HAZARDS

PRIMARY ROUTES OF ENTRY

Inhalation: X Absorption: X Injection: NA HEALTH HAZARDS:

Contact may irritate or burn skin and eyes. Fire may produce irritating gases. Runoff from fire control or dilution water may cause pollution. EMERGENCY & FIRST AID PROCEDURES:

Move victim to fresh air and call emergency medical care. If not breathing give artificial respiration. If breathing is difficult, give oxygen under supervision.

In case of eye contact, immediately flush with running water for at least 15 minutes. In case of skin contact, wash with soap and water. In case of ingestion, call a physician.

Do not induce vomiting.

Carcinogenicity? NO

SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Stop Leak if you can do it without risk. Take up with sand or other noncombustible absorbent material and place in containers for later disposal.

HANDLING PROCEDURES AND EQUIPMENT:

Handle carefully, avoid smoking, drinking, or eating on use. Wear adequate protective clothes. In case of accident or if you feet ill, seek medical advice.

Page 3 of 3

Calcium Chloride

STORAGE REQUIREMENTS:

Store in well ventilated area, away from all sources of ignition. Keep away from children. Do not store near foodstuffs. Store in a duly identified container. Observe local regulations.

ATTENTION:

Do not cut, puncture or weld on or near this container.

WASTE DISPOSAL METHOD:

concact all municipal, provincial and federal regulations.

SECTION 8 - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES

Respiratory Protection (Specify Type):

NONE REQUIRED UNDER NORMAL CONDITIONS.

Ventilation: Local Exhaust: Recommended General Exhaust: Recommended

Special: NA

Protective Gloves: Chemically Resistant / Non-Slip

Eye Protection: Chemical Safety Goggles / Safety Glasses

Other Protective Clothing or Equipment: Coveralls, Splash Aprons, Eye Wash, and Safety Shower

Work/Hygenic Practices:

Clean up Spills Promptly, Wash Contaminated Clothing.

SECTION 9 - SHIPPING DATA

Hazard Classification: UN/NA No.: Labels Required: NOT-REGULATED NONE NONE

Proper Shipping Name/Description:

SHIPPING DESCRIPTION:

None (CALCIUM CHLORIDE)

Flash Point, C: Pkg. Group: pH: NA NONE

This information is based on data believed by Champion Technologies, Ltd. to be accurate, but no warranty, express or implied is made.