

Product Health & Safety data

ESSO PETROLEUM COMPANY LIMITED

Product: ESSO MOTOR DIESEL FUEL

FIRE AND EXPLOSION HAZARDS:

Flammable liquid, moderate hazard. Liquid can release vapours that readily form flammable mixtures at or above the flash point.

Static discharge; material can accumulate static charges which may cause an incendiary electrical discharge.

FLASH POINT:

> 55 deg. C

METHOD:

PMCC ASTM D93

FLAMMABILITY LIMITS IN AIR, % BY VOL:

LEL: 0.50 UEL: 5.00 Approx.

AUTOIGNITION TEMPERATURE:

> 250 DEG. C

SPECIAL FIRE-FIGHTING PROCEDURES:

Water fog or spray, to cool fire-exposed surfaces (e.g. containers) and to protect personnel, should only be used by personnel trained in fire fighting.

Cut off "fuel"; depending on circumstances, either allow the fire to burn out under controlled conditions or use foam or dry chemical powder to extinguish the fire.

Respiratory and eye protection required for fire fighting personnel exposed to fumes or smoke.

HAZARDOUS COMBUSTION PRODUCTS:

Smoke, and carbon monoxide may be formed in the event of incomplete combustion.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

See Section 8.

LAND SPILL:

Eliminate sources of ignition.

Shut off source taking normal safety precautions. Prevent liquid from entering sewers, water courses or low lying areas; advise the relevant authorities if it has, or if it contaminates soil/vegetation. Take measures to minimise the effects on ground water.

Recover by skimming or pumping using explosion-proof equipment, or contain spilled liquid with booms, sand, or other suitable absorbent and remove mechanically into containers. If necessary, dispose of adsorbed residues as directed in Section 13.

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WATER SPILL:

Confine the spill immediately with booms. Warn other shipping. Notify port and other relevant authorities.

Remove from the surface by skimming or with suitable absorbents. Disperse the residue in unconfined waters, if permitted by local authorities and environmental agencies.

7. HANDLING AND STORAGE

SPECIFIC USES:

Fuel for diesel motors or burners.

The design and operation of bulk storage and fuel systems must comply with national legislation and recognised codes of good practice. In smaller quantities, containers such as drums should be stored in cool, well ventilated surroundings, away from all sources of ignition. Electrical equipment and fittings must comply with local fire prevention regulations for this class of flammable product.

Store the product in cool, well ventilated surroundings. Provide mechanical equipment for the safe handling of drums and heavy packages.

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

LOAD/UNLOAD TEMPERATURE deg. C:

Ambient to 40

STORAGE TEMPERATURE deg. C:

Ambient to 40

SPECIAL PRECAUTIONS:

Store and handle in closed or properly vented containers.

Ensure compliance with statutory requirements for storage and handling.

Check for and prevent potential leaks from containers.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 OCCUPATIONAL EXPOSURE LIMIT:

ACGIH recommends a TWA of 100 mg/m³ total hydrocarbon for diesel fuel

8.2 PERSONAL PROTECTION:

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In open systems where contact is likely, wear safety goggles, chemical-resistant overalls, and chemically impervious gloves.

Where only incidental contact is likely, wear safety goggles, long sleeves, and chemical-resistant gloves.

When concentrations in air may exceed the occupational exposure limit, and where engineering, work practices, or other means of exposure reduction are not adequate, approved respirators may be required.

ENVIRONMENTAL CONTROLS: See section 7.

9. PHYSICAL AND CHEMICAL PROPERTIES

GENERAL:

APPEARANCE / ODOUR: Clear light coloured liquid, petroleum hydrocarbon odour.

IMPORTANT HEALTH, SAFETY AND ENVIRONMENTAL INFORMATION:

DENSITY, g/ml: 0.85 at 15 deg. C Typical

BOILING RANGE: 180.0 - 390.0 deg. C Typical

VISCOSITY, mm²/S: 3 at 40 deg. C Typical

VAPOUR PRESSURE, kPa: < 0.3 at 20 deg. C

VAPOUR DENSITY AT 1 BAR (Air=1): Heavier than air

EVAPORATION RATE (n-butyl acetate=1): <0.1

SOLUBILITY IN WATER: 20 deg. C Negligible

pH: Not Applicable.

FLASH POINT: > 55 deg. C
METHOD: PMCC ASTM D93

FLAMMABILITY LIMITS IN AIR, % BY VOL: LEL: 0.50 UEL: 5.00 Approx.

AUTOIGNITION TEMPERATURE: > 250 DEG. C

PARTITION COEFFICIENT n-octanol/water: Data not available.

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10. STABILITY AND REACTIVITY

STABILITY (THERMAL, LIGHT, ETC): Stable

CONDITIONS TO AVOID:

Keep away from heat sources, open flames and other sources of ignition.

INCOMPATIBLE MATERIALS:

Avoid contact with strong oxidants such as liquid chlorine and concentrated oxygen.

HAZARDOUS DECOMPOSITION PRODUCTS:

Product does not decompose at ambient temperature.

11. TOXICOLOGICAL INFORMATION

EFFECTS OF OVER EXPOSURE:

INHALATION:

In high concentrations and/or at elevated temperatures, vapour or mist is irritating to mucous membranes, may cause headaches and dizziness, may be anesthetic and may cause other central nervous system effects.

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, mists, or fumes.

SKIN CONTACT:

Low order of acute toxicity.

Irritating.

Prolonged or repeated contact may also lead to more serious skin disorders, including skin cancer.

Certain components present in this material may be absorbed through the skin, possibly in toxic quantities.

EYE CONTACT:

Slightly irritating, but does not injure eye tissue.

INGESTION:

Low order of acute/systemic toxicity.

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Minute amounts aspirated into the lungs during ingestion or vomiting may cause severe pulmonary injury and death.

CHRONIC:

Contains polycyclic aromatic compounds (PACs). Prolonged and/or repeated skin contact with certain PACs has been shown to cause skin cancer.

Prolonged and/or repeated exposures by inhalation of certain PACs may also cause cancer of the lung and of other sites of the body.

TOXICITY DATA:

ACUTE:

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)

CHRONIC:

Based on what is known of this product and of materials of similar composition and refining history, this product would be expected to have carcinogenic potential.

12. ECOLOGICAL INFORMATION

The following information below reflects expected environmental fate and effects of this formulated product.

ENVIRONMENTAL FATE AND EFFECTS:

ECOTOXICITY:

Expected to be toxic to aquatic organisms.

MOBILITY:

"Highly volatile, will partition rapidly to air."

PERSISTENCE AND DEGRADABILITY:

Transformation due to hydrolysis not expected to be significant.

Transformation due to photolysis not expected to be significant.

Expected to degrade at a moderate rate in air

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Expected to be inherently biodegradable.

BIOACCUMULATIVE POTENTIAL:

Potential to bioaccumulate is low.

13. DISPOSAL CONSIDERATIONS

This product contains hazardous ingredients listed in Section 2. Collect and dispose of it at an authorised disposal facility, in conformance with national and local regulations, and in accordance with EEC Directives on hazardous waste.

EU WASTE DISPOSAL CODE: 13 07 01

(Note: these codes are assigned based upon the most common uses for this product and may not reflect contaminants resulting from actual use.

Purchasers may need to reassign waste disposal codes based on actual use.)

14. TRANSPORT INFORMATION

USUAL SHIPPING CONTAINERS:

Tankers, barges, rail cars, tank trucks, drums.

TRANSPORT TEMPERATURE deg. C: Ambient to 40

INTERNATIONAL TRANSPORT REGULATIONS

UN no 1202

Substance name / Proper Shipping Name

Diesel fuel / Heating oil (light)

LAND / INLAND WATERWAYS

Regulated for transport by land under ADR/RID regulations and inland waterways under ADNR regulations:

Classification & class no./code	3 F1	Hazard Iden. no.	30
Hazard labels of class	3	Special Provision (640)	
Packing group	III		
UK Emergency action (HAZCHEM)	3Z		

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SEA

Regulated for transport by sea under IMO regulations:

IMDG class	3	Packing group	III
Marine pollutant	No		
EMS no	3-07		
Subsidiary risk / mark	none		

AIR

Regulated for transport by air under IATA regulations:

IATA class	3	Subsidiary risk	none
Packing group	III		
	Packing instructions	Maximum quantity	
Passenger aircraft	309	60 l	
Cargo aircraft	310	220 l	

15. REGULATORY INFORMATION

HAZARD CLASSIFICATION: Carcinogenic cat. 3
Harmful
Dangerous for the environment

LABEL:

SYMBOL: Xn,N
INDICATION OF DANGER: HARMFUL, DANGEROUS FOR THE ENVIRONMENT

RISK PHRASE:

R 40 Limited evidence of a carcinogenic effect.
R 65 Harmful: may cause lung damage if swallowed.
R 66 Repeated exposure may cause skin dryness or cracking.
R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SAFETY PHRASE:

S 2 Keep out of reach of children
S 29 Do not empty into drains
S 36 Wear suitable protective clothing
S 37 Wear suitable gloves
S 46 If swallowed, seek medical advice immediately and show this container or label

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OTHER LABEL INFORMATION:

Contains:
Gas oil

16. OTHER INFORMATION

LIBRARY OF RISK PHRASES LISTED IN THIS DOCUMENT:

R 40	Limited evidence of a carcinogenic effect.
R 51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 65	Harmful: may cause lung damage if swallowed.
R 66	Repeated exposure may cause skin dryness or cracking.

SOURCE OF KEY DATA:

The recommendations presented in this Material Safety Data Sheet were compiled from actual test data (when available), comparison with similar products, component information from suppliers and from recognised codes of good practice.

The information and recommendations contained herein are, to the best of ExxonMobil's knowledge and belief, accurate and reliable as of the date issued, but are offered without guarantee or warranty. They relate to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Conditions of use of the material are under the control of the user; therefore, it is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.

END OF DATA

Product Health & Safety data

ESSO PETROLEUM COMPANY LIMITED

Product: ESSO MOTOR GASOLINE

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION

PRODUCT: ESSO MOTOR GASOLINE

PRODUCT No.: U-PET01
REVISION: 19 SEPTEMBER 2002
SUPERSEDES: 30 JULY 2002

ESSO PETROLEUM COMPANY LIMITED
EXXONMOBIL HOUSE
ERMYN WAY
LEATHERHEAD
SURREY KT22 8UX

IN AN EMERGENCY PLEASE CONTACT:
01372 223131

INTENDED USES:

Motor gasoline fuel.

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredients present at or above regulatory disclosure levels:

INGREDIENT	SYMBOL/R-PHRASE	CAS #	WT. %
Ingredients contributing to a hazard classification:			
Gasoline (containing more than 0.1 wt% benzene)	T, R 45 Xi, R 38 R 65 Xn, R 67 Up to 99.9%		

3. HAZARD IDENTIFICATION

This product is considered hazardous according to EU regulatory guidelines.
(see Section 15).

Hazards associated with this product:

Extremely flammable

May cause cancer

Irritating to skin

Harmful: may cause lung damage if swallowed.

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Product: ESSO MOTOR GASOLINE

Vapours may cause drowsiness and dizziness

Potential Environmental effects:

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Gasoline contains toxic components and additives at levels which, under normal conditions of use and good practice, are not considered to present a health hazard. However, being highly volatile, mis-use or poor handling procedures could result in exposure to very high concentrations of vapors which may cause effects ranging from irritation to the eyes, nose and throat to, in extreme cases, narcotic symptoms and even death. Prolonged and repeated exposures to high concentrations may present a risk of damage to the blood and nervous system. Recent evidence from limited animal studies indicated potential for kidney damage. However, this effect has been shown to be of no physiological concern to humans. Gasolines have a low to moderate oral toxicity, but do not present a hazard from this route during normal use. However, aspiration of even very small amounts into the lung, either directly or as a result of vomiting following ingestion, could cause severe lung damage and death. Gasolines are defatting agents and prolonged or repeated skin contact may result in dermatitis. Contact with eyes may cause irritation although there should be no permanent effects.

Handling precautions including good ventilation practice should be observed.

Note: This product should not be used for any other purpose without expert advice.

4. 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.

SKIN CONTACT:

Immediately flush with large amounts of water; use soap if available. Remove contaminated clothing, including shoes, after flushing has begun.

If irritation occurs and persists, get medical attention.

EYE CONTACT:

Rinse immediately with plenty of water until irritation subsides. If irritation persists, obtain medical advice.

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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.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Foam, dry chemical powder, carbon dioxide.

FIRE AND EXPLOSION HAZARDS:

Extremely flammable, high hazard. Liquid can release considerable vapour at temperatures below ambient which readily form flammable mixtures.

Vapours settle to ground level and may reach, via drains and other underground passages, ignition sources remote from the point of escape.

Static discharge; material can accumulate static charges which may cause an incendiary electrical discharge.

FLASH POINT:

< -40 deg. C

METHOD:

TAG-C ASTM D56

FLAMMABILITY LIMITS IN AIR, % BY VOL:

LEL: 1.00 UEL: 7.00 Approx.

AUTOIGNITION TEMPERATURE:

> 440 DEG. C

SPECIAL FIRE-FIGHTING PROCEDURES:

Water fog or spray, to cool fire-exposed surfaces (e.g. containers) and to protect personnel, should only be used by personnel trained in fire fighting.

Cut off "fuel"; depending on circumstances, either allow the fire to burn out under controlled conditions or use foam or dry chemical powder to extinguish the fire.

Respiratory and eye protection required for fire fighting personnel exposed to fumes or smoke.

HAZARDOUS COMBUSTION PRODUCTS:

Smoke, and carbon monoxide may be formed in the event of incomplete combustion.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

See Section 8.

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LAND SPILL:

Eliminate sources of ignition.

Warn occupants in downwind areas of fire and explosion hazard.

Shut off source taking normal safety precautions. Prevent liquid from entering sewers, water courses or low lying areas; advise the relevant authorities if it has, or if it contaminates soil/vegetation. Take measures to minimise the effects on ground water.

Recover by skimming or pumping using explosion-proof equipment, or contain spilled liquid with booms, sand, or other suitable absorbent and remove mechanically into containers. If necessary, dispose of adsorbed residues as directed in Section 13.

WATER SPILL:

Eliminate sources of ignition. Advise occupants and shipping in downwind areas of fire and explosion hazard and warn them to stay clear. Notify port and other relevant authorities.

Do not confine in area of leakage.

7. HANDLING AND STORAGE

SPECIFIC USES:

Motor gasoline fuel.

DO NOT STORE OR HANDLE NEAR TO HEAT, SPARKS, FLAMES OR OTHER IGNITION SOURCES OR STRONG OXIDANTS. NO SMOKING WHERE GASOLINE IS STORED OR HANDLED.

Store and handle in suitable closed or properly ventilated containers. Where possible bulk handling of gasoline should be carried out in enclosed systems with vapour control to minimise health and fire risk. Check for, and prevent potential leaks from containers. If stored in an enclosed area, ensure sufficient ventilation to prevent vapour levels exceeding permitted exposure limits. Tanks which have held leaded gasoline may contain lead residues and require special cleaning precautions.

Product handling and transfer systems should be properly bonded and grounded to minimise the risk of generating sparks from static charge accumulation. Electrical equipment and fittings must comply with local fire prevention regulations for this class of product. Use the correct grounding procedure. Refer to national or local regulations covering safety at gasoline handling and storage areas for this product. Electrical and mechanical

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equipment used in the vicinity of bulk gasoline handling or storage should be certified intrinsically safe by an approved national testing agency, to the safety standards required by national or local regulations.

"EMPTY" DRUM WARNING: Empty drums may contain residual liquid or vapour and can be dangerous. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE CONTAINERS TO HEAT, FLAMES, SPARKS, STATIC ELECTRICITY OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to clean since residue is difficult to remove. "Empty" drums should be completely drained, properly sealed, properly marked and labelled with appropriate handling advice and promptly returned to a drum reconditioner or sent for disposal. All other containers should be disposed of in an environmentally safe manner in accordance with local regulations. Do not use contaminated drums for subsequent storage of edible products.

LOAD/UNLOAD TEMPERATURE deg. C:	Ambient to 40
STORAGE TEMPERATURE deg. C:	Ambient to 40

SPECIAL PRECAUTIONS:

Keep containers closed when not in use.

Do not syphon by mouth suction.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 OCCUPATIONAL EXPOSURE LIMIT:

ACGIH recommends a TWA of 0.5 ppm and a 15-minute STEL of 2.5 ppm (skin) for benzene (Monitoring method; NIOSH 1500 or 1501)

ACGIH recommends a TWA of 50 ppm (skin) for n-hexane (Monitoring method; NIOSH 1500)

ACGIH recommends a TWA of 200 ppm and a 15-minute STEL of 250 ppm (skin) for methanol (Monitoring method; NIOSH 2000)

8.2 PERSONAL PROTECTION:

In open systems where contact is likely, wear safety goggles, chemical-resistant overalls, and chemically impervious gloves.

Where only incidental contact is likely, wear safety goggles, long sleeves, and chemical-resistant gloves.

When concentrations in air may exceed the occupational exposure limit, and where engineering, work practices, or other means of exposure reduction are

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not adequate, approved respirators may be required.

ENVIRONMENTAL CONTROLS: See section 7.

9. PHYSICAL AND CHEMICAL PROPERTIES

GENERAL:

APPEARANCE / ODOUR: Clear pale straw coloured liquid, pungent petroleum odour (may be dyed various colours)

IMPORTANT HEALTH, SAFETY AND ENVIRONMENTAL INFORMATION:

DENSITY, g/ml: 0.75 at 15 deg. C Typical

BOILING RANGE: 25.0 - 205.0 deg. C (approx.)

VISCOSITY, mm²/S: 1 at 20 deg. C Typical

VAPOUR PRESSURE, kPa: 60.0 at 20 deg. C Typical

VAPOUR DENSITY AT 1 BAR (Air=1): Heavier than air

EVAPORATION RATE (n-butyl acetate=1): Not known

SOLUBILITY IN WATER: 0.01 g/l at 20 deg. C (approx.)

pH: Not Applicable.

FLASH POINT: < -40 deg. C

METHOD: TAG-C ASTM D56

FLAMMABILITY LIMITS IN AIR, % BY VOL: LEL: 1.00 UEL: 7.00 Approx.

AUTOIGNITION TEMPERATURE: > 440 DEG. C

PARTITION COEFFICIENT n-octanol/water: Data not available.

10. STABILITY AND REACTIVITY

STABILITY (THERMAL, LIGHT, ETC): Stable

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CONDITIONS TO AVOID:

Keep away from heat sources, open flames and other sources of ignition.

INCOMPATIBLE MATERIALS:

Avoid contact with strong oxidants such as liquid chlorine, concentrated oxygen, solid hypochlorites etc, as these present a serious explosion hazard.

HAZARDOUS DECOMPOSITION PRODUCTS:

Product does not decompose at ambient temperatures.

Product does not decompose at ambient temperature.

11. TOXICOLOGICAL INFORMATION

EFFECTS OF OVER EXPOSURE:

INHALATION:

In high concentrations and/or at elevated temperatures, vapour or mist is irritating to mucous membranes, may cause headaches and dizziness, may be anesthetic and may cause other central nervous system effects.

Causes suffocation (asphyxiant) if allowed to accumulate to concentrations that reduce oxygen below safe breathing levels.

Avoid breathing vapours, mists, or fumes.

SKIN CONTACT:

Low order of acute toxicity.

Irritating.

EYE CONTACT:

Slightly irritating, but does not injure eye tissue.

INGESTION:

Low order of acute/systemic toxicity.

Minute amounts aspirated into the lungs during ingestion or vomiting may cause severe pulmonary injury and death.

CHRONIC:

In a lifetime inhalation study, not performed in man, exposure to high levels of wholly vaporized gasoline (>2000 ppm) produced carcinogenic activity in the liver. The relevance of this study to humans has not been established.

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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. Prolonged and/or repeated exposures may cause damage to the peripheral nervous system (e.g. fingers, feet, arms etc.).

Prolonged and repeated exposures of male rats to inhalation of light hydrocarbon vapors in the same naphtha boiling range of this material produced kidney disorders and/or damage, including cancer. These effects were not observed in similar studies in female rats and male and female mice. A number of human studies have not shown clinical evidence of an association between light hydrocarbon exposure and disease. The U.S. EPA Risk Assessment Forum has concluded that the male rat kidney tumor results are not relevant for humans.

TOXICITY DATA:

ACUTE:

The acute toxicity evaluation for this product is based on testing results from similar atmospheric petroleum distillates.

CHRONIC:

Based on what is known of this product and of materials of similar composition and refining history, this product would be expected to have carcinogenic potential.

12. ECOLOGICAL INFORMATION

The following information below reflects expected environmental fate and effects of this formulated product.

ENVIRONMENTAL FATE AND EFFECTS:

ECOTOXICITY:

Expected to be toxic to aquatic organisms.

MOBILITY:

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"Highly volatile, will partition rapidly to air."

PERSISTENCE AND DEGRADABILITY:

Transformation due to hydrolysis not expected to be significant.

Transformation due to photolysis not expected to be significant.

Expected to degrade at a moderate rate in air

Expected to be inherently biodegradable.

BIOACCUMULATIVE POTENTIAL:

Has the potential to bioaccumulate.

13. DISPOSAL CONSIDERATIONS

This product contains hazardous ingredients listed in Section 2. Collect and dispose of it at an authorised disposal facility, in conformance with national and local regulations, and in accordance with EEC Directives on hazardous waste.

EU WASTE DISPOSAL CODE: 13 07 02

(Note: these codes are assigned based upon the most common uses for this product and may not reflect contaminants resulting from actual use.

Purchasers may need to reassign waste disposal codes based on actual use.)

14. TRANSPORT INFORMATION

USUAL SHIPPING CONTAINERS:

Tankers, barges, rail cars, tank trucks, drums.

TRANSPORT TEMPERATURE deg. C: Ambient to 40

INTERNATIONAL TRANSPORT REGULATIONS

UN no 1203

Substance name / Proper Shipping Name

Gasoline

LAND / INLAND WATERWAYS

Regulated for transport by land under ADR/RID regulations and inland waterways under ADNR regulations:

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Classification & class no./code	3 F1	Hazard Iden. no.	33
Hazard labels of class	3	Special Provision (640)	
Packing group	II		
UK Emergency action (HAZCHEM)	3YE		

SEA

Regulated for transport by sea under IMO regulations:

IMDG class	3	Packing group	II
Marine pollutant	No		
EMS no	3-07		
Subsidiary risk / mark	none		

AIR

Regulated for transport by air under IATA regulations:

IATA class	3	Subsidiary risk	none
Packing group	II		
	Packing instructions	Maximum quantity	
Passenger aircraft	305	5 l	
Cargo aircraft	307	60 l	

15. REGULATORY INFORMATION

HAZARD CLASSIFICATION: Extremely flammable
Carcinogenic cat. 2
Dangerous for the environment

LABEL:

SYMBOL: F+,T,N
INDICATION OF DANGER: EXTREMELY FLAMMABLE, TOXIC, DANGEROUS FOR THE ENVIRONMENT

RISK PHRASE:

R 12	Extremely flammable
R 45	May cause cancer
R 38	Irritating to skin
R 65	Harmful: may cause lung damage if swallowed.
R 67	Vapours may cause drowsiness and dizziness

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R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SAFETY PHRASE:

S 2 Keep out of reach of children
S 9 Keep container in a well ventilated place
S 16 Keep away from sources of ignition - No Smoking
S 29 Do not empty into drains
S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)
S 53 Avoid exposure - obtain special instructions before use

OTHER LABEL INFORMATION:

Contains:
Gasoline (containing more than 0.1 wt% benzene)
Ø

16. OTHER INFORMATION

LIBRARY OF RISK PHRASES LISTED IN THIS DOCUMENT:

R 12 Extremely flammable
R 38 Irritating to skin
R 45 May cause cancer
R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 65 Harmful: may cause lung damage if swallowed.
R 67 Vapours may cause drowsiness and dizziness

SOURCE OF KEY DATA:

The recommendations presented in this Material Safety Data Sheet were compiled from actual test data (when available), comparison with similar products, component information from suppliers and from recognised codes of good practice.

The information and recommendations contained herein are, to the best of ExxonMobil's knowledge and belief, accurate and reliable as of the date issued, but are offered without guarantee or warranty. They relate to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Conditions of use of the material are under the control of the user; therefore, it is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.

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END OF DATA

**Masterfrost
Industrial Applications**

An inhibited mono propylene glycol based heat transfer and antifreeze medium offering distinct performance advantages over both uninhibited mono propylene glycol and conventional products based on mono ethylene glycol. It is particularly recommended for industrial heat transfer applications and for use in double skin tanks where the fluid between the two skins assists in the leak detection process.

Although water is the most widely used heat transfer fluid it cannot be used alone in applications involving temperatures below 0°C. Where such temperatures are encountered or necessary aqueous solutions of Masterfrost prove highly effective as a heat transfer media.

Besides providing low temperature freezing protection solutions of Masterfrost provide other highly desirable properties. Being propylene glycol based, Masterfrost offers outstanding health and safety benefits. In applications where contamination of foodstuffs, land and watercourses is a risk the low toxicity of Masterfrost makes it an obvious alternative solution.

The powerful corrosion inhibitor systems incorporated in the Masterfrost formulation ensure its suitability for use in plant and equipment constructed of cast iron, mild steel, stainless steel and other multi-metal component systems such as aluminium, copper and solder.

Performance Benefits

- ◆ *Exceptionally low toxicity compared to conventional mono ethylene glycol based products*
- ◆ *Much lower operating temperatures attainable compared to pure water*
- ◆ *Excellent multi-metal compatibility offering extended component corrosion resistance*
- ◆ *Extremely stable and tolerant in hard water environments*
- ◆ *The mono propylene glycol base provides lubrication for automatic controls on cooling system equipment*

Health and Safety

This product is Mono Propylene Glycol based and should be handled according to good standards of industrial hygiene. Further detailed information is available on request.

Storage

Drums should be stored on their sides in a clean dry place and protected from extremes of temperature.

PW/02 July 2004/6



Certificate No. FM 1985

Colne Vale Road, Milnsbridge
Huddersfield, HD3 4NT
West Yorkshire, England

Head Office Tel: 01484 653015
Head Office Fax: 01484 460078

U.K. Sales Orders Tel: 01484 461999
U.K. Fax Orders Fax: 01484 461998
Export Sales Orders Fax: (44) 1484 658884

Dereham Depot
Tel: 01362 698728

Nuneaton Depot
Tel: 02476 641800

.../contd

Directors

Dr D. Brett (Managing)
D.T. Burton Bullard
K. Glossop, M.G. Mould

Batoyle Ltd

Registered in England 242064

Freedom Lubricants Ltd

Registered in England 935764

.../2 contd

Performance Specifications

BS6580
ASTM D-5216
NFR.15-601

Typical Physical Characteristics

Specific Gravity @ 20°C 1.050
Boiling Point °C 155 min.
Freezing Point °C -60
Flash Point (C.O.C.)°C 103 min.
Solubility in water Completely Soluble

Freezing Protection

Masterfrost Concentration %	Freezing Point °C	Specific Gravity @ 20 °C
10	-3	1.007
20	-7	1.015
30	-13	1.024
40	-20	1.033
50	-32	1.039
60	-53	1.043

In choosing the appropriate dilution care should be taken to consider both freezing protection and the anti-corrosion requirements.

The information given is correct to the best of our knowledge. It is offered in good faith but without guarantee as the conditions and method of use of our products are beyond our control.

1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND COMPANY

Product Name: MASTERFROST
Application: Automotive & Industrial System Coolant
Manufacturer: BATOYLE FREEDOM GROUP
Colne Vale Road
Milnsbridge
Huddersfield
England
HD3 4NT
Emergency Telephone: 01484 653015

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients: This material is not considered hazardous as defined by E.C. legislation.

3. HAZARDS IDENTIFICATION

This product is not considered hazardous, but should be handled in accordance with good standards of industrial hygiene and safety practices.

4. FIRST AID MEASURES

Eyes: Flush eyes with water, lifting eyelids for at least 15 minutes. If irritation persists obtain medical attention.
Skin: Remove contaminated clothing. Wash affected area with copious amounts of soap and water. If irritation persists obtain medical attention.
Ingestion: Rinse mouth out with water and give water to drink. DO NOT INDUCE VOMITING. Obtain immediate medical attention.
Inhalation: Remove to fresh air. Keep warm and at rest. Obtain medical attention if ill effects occur.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Alcohol resistant foam, Dry chemical, Carbon Dioxide and Water fog (to cool containers)
DO NOT USE WATER JETS
Products of Combustion: Hazardous fumes may be evolved on burning or exposure to heat; this will include oxides of carbon.
Protective Equipment: Fire in confined spaces should be dealt with by trained personnel wearing approved breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

- Personal Precautions:** Wear appropriate protective clothing. Stop leaks if without risk. Avoid contact with all sources of ignition. Presents a significant slip hazard
- Environmental Precautions:** Prevent entry into drains, sewers and watercourses.
- Decontamination Procedure:** Contain and recover using absorbent inert material and dispose of in accordance with local byelaws and the Environmental Protection Act 1990. In case of large spills contact the appropriate authorities immediately.

7. HANDLING AND STORAGE

- Handling Precautions:** Wear appropriate protective clothing. Avoid contact with all sources of ignition. Do not use in confined spaces without adequate ventilation and/or respirator. Avoid inhalation of vapours.
- Storage Conditions:** Store in tightly closed original container in a cool, dry, well-ventilated place. Store away from sources of ignition and strong oxidising agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Eyes:** Wear chemical safety goggles.
- Skin:** Wear chemical resistant gloves and protective overalls and boots.
- Inhalation:** Ensure adequate ventilation or local exhaust measures.
- Exposure Limits:** LTEL (8 Hr TWA) 1,2 Propandiol = 474 mg/m³

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Specific Gravity @ 15°C	1.050
Kinematic Viscosity @ 40°C	-
Flash Point (PMCC) °C	103
Boiling Point Range °C	155-190
Auto-ignition Temperature °C	371
Flammability Limit %	Lower 2.4 Upper 17.4
Solubility in Water	Completely Soluble

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of use.

Incompatibility: Moisture and all sources of ignition.

Decomposition: Thermal decomposition can lead to the formation of a variety of compounds, the precise nature of which will depend on the prevailing conditions. Combustion will generate smoke and hazardous gases including oxides of carbon.

11. TOXICOLOGICAL INFORMATION

Ingestion: Low order of acute oral toxicity. May cause irritation to digestive tract.

Acute Oral Toxicity LD50 (oral, rat) = 23,000 mg/kg

Eyes: May cause eye irritation.

Skin: May cause skin irritation.

Inhalation: Unlikely to be hazardous under normal conditions of use. Inhalation of mists may cause irritation to upper respiratory tract and lungs.

12. ECOLOGICAL INFORMATION

Mobility: Spillages may penetrate the soil causing ground contamination and eventually water contamination.

Persistence and Degradability: Readily Biodegradable.

Bioaccumulative Effect: Not expected.

Aquatic Toxicity: Completely soluble in aqueous systems.

LC50, 96 Hrs, Fish = 23,800
EC50, 48 Hrs, Daphnia = >43,500
IC50, 72 Hrs, Algae = >19,000

13. DISPOSAL CONSIDERATIONS

Place used and contaminated materials in suitable containers. Dispose of the waste in compliance with the "Duty of Care" and Environmental Protection Act 1990 regulations. Always dispose of using a licensed waste disposal contractor. This material and its container must be disposed of as a controlled waste.

14. TRANSPORT INFORMATION

Hazard Information: Not classified as hazardous for transportation.

15. REGULATORY INFORMATION

Hazard Label Data: No label required.

Risk and Safety Phrases: None

E.C. Directives: Dangerous Preparations Directive 2001/60/EC
91/156/EEC Framework Waste Directive
87/101/EEC Waste Oil Directive

Statutory Information: Chemicals (Hazard Information and Packaging for Supply) Regulations 2002 (CHIP 3)
EH40/2002 Occupational Exposure Limits
Health and Safety at Work Act 1974
Consumer Protection Act 1987
Control of Substances Hazardous to Health 1988
Environmental Protection Act 1990

16. OTHER INFORMATION

The Company: The information given applies when these products are sold for their stated applications and no others. Use of these products for applications other than those stated may give rise to risks not already covered in this document. Before using for applications other than directed seek advice from the company.

Third Party: If you have purchased this product for supply to a third party for use in the workplace, it is your duty to take all the necessary steps to ensure that any person handling this product is provided with the appropriate health and safety information.

The Employer: If you are an employer, it is your duty to warn your employees and others who may be affected of the hazards, if any, that are associated with the use of this product and any precautions that should be taken.

Approved Codes of Practice: Waste Management.
The Duty of Care.



Priory - Supplementary Information

SECTION A: CONTAMINATED SOILS / WATER & GENERAL WASTE

During the course of this project 131.74 t (Approx.) of contaminated water were removed from site and sent to licensed disposal facility (*see Appendix 1*).

During the course of this project a total number of 19 loads of rubbles arising from tanks farm slabs, tank cradles, tank bases, interceptor removal etc were removed and disposed to a local disposal facility.(St. Margaret's Recycling – Waste Permit No: 112)

All under and above ground tanks (6 numbers) along with offset fill points, all fill lines, suction lines and vent lines were disposed to a local disposal facility (See Appendix 2).

During the course of this project 391.16 tones of contaminated soil were removed as directed by EC and disposed of to disposal facility (See Attached Appendix 3 – Contaminated soil Disposal certificate). It must be noted that MSI Ltd have no responsibility whatsoever for determining the Location, extent or volume of contaminated material to be removed or for verifying that it has been removed.

SECTION B: Esso 30 Days Book

Additional safety information is contained within *Appendix 4 – 30 days Book*

SECTION C: PETROLEUM OFFICER

Local fire officer been informed prior to commencement of decommissioning works and also gas free and decommissioning certificates for the under ground tanks were issued to same after completion of the works.

Petroleum Officer	Name:	Mr. Colm Traynor
		Dublin Fire Brigade HQ
	Fax:	01 6734077
	Tel:	01 6734000

SECTION D: APPENDICES

Appendix 1 Contaminated water disposal Certificates

Appendix 2 Tank/Steel Disposal facility waste permit

Appendix 3 Contaminated soil Disposal Certificates.

Appendix 4 30-days Book

RILTA ENVIRONMENTAL Ltd.
CERTIFICATE OF
AUTHORISED DISPOSAL



Job No:	1-30420	Operatives:	BB/GL
Customer Name:	MSI Limited	Date:	February 08, 2008
Address:	Unit 107, Baldoyle Ind Estate, Baldoyle		
Job Site:	Priority Service Station, Nutgrove Avenue, Baldoyle		
Customer Order No.:		Vehicle:	Euro
C1 #:	TFS #:	EWC Codes: 161001	

Details of Waste:

Disposal of 12.4 tonne of unerting water 08.02.08

We certify that the above described waste has been received, treated, stored and disposed of at our treatment facility in accordance with:

1. Our Waste permit and/or
2. Our Trade Effluent Discharge License and/or
3. The provisions of European Communities (Waste Oils) Regulations 1992
4. The current requirements of the Waste Management Act 1996
5. The terms of our EPA WASTE LICENSE NO. 192-1

SIGNED:


Authorised Signatory
RILTA Environmental Ltd.

RILTA ENVIRONMENTAL Ltd.
CERTIFICATE OF
AUTHORISED DISPOSAL



Job No:	1-30420	Operatives:	BB/GL
Customer Name:	MSI Limited	Date:	February 08, 2008
Address:	Unit 107, Baldoyle Ind Estate, Baldoyle		
Job Site:	Priority Service Station, Nutgrove Avenue, Baldoyle		
Customer Order No.:		Vehicle:	Euro
C1 #:	TFS #:	EWC Codes: 161001	

Details of Waste:

Disposal of 13.32 tonne of unerting water 08.02.08

We certify that the above described waste has been received, treated, stored and disposed of at our treatment facility in accordance with:

1. Our Waste permit and/or
2. Our Trade Effluent Discharge License and/or
3. The provisions of European Communities (Waste Oils) Regulations 1992
4. The current requirements of the Waste Management Act 1996
5. The terms of our EPA WASTE LICENSE NO. 192-1

SIGNED: 

Authorised Signatory
RILTA Environmental Ltd.

RILTA ENVIRONMENTAL Ltd.
CERTIFICATE OF
AUTHORISED DISPOSAL



Job No:	1-30420	Operatives:	BB/GL
Customer Name:	MSI Limited	Date:	February 08, 2008
Address:	Unit 107, Baldoyle Ind Estate, Baldoyle		
Job Site:	Priority Service Station, Nutgrove Avenue, Baldoyle		
Customer Order No.:		Vehicle:	Euro
C1 #:	TFS #:	EWC Codes: 161001	


Details of Waste:

Disposal of 13.52 tonne of unerting water 08.02.08

We certify that the above described waste has been received, treated, stored and disposed of at our treatment facility in accordance with:

1. Our Waste permit and/or
2. Our Trade Effluent Discharge License and/or
3. The provisions of European Communities (Waste Oils) Regulations 1992
4. The current requirements of the Waste Management Act 1996
5. The terms of our EPA WASTE LICENSE NO. 192-1

SIGNED


Authorised Signatory
RILTA Environmental Ltd.

RILTA ENVIRONMENTAL Ltd.
CERTIFICATE OF
AUTHORISED DISPOSAL



Job No:	1-30420	Operatives:	FN
Customer Name:	MSI Limited	Date:	February 08, 2008
Address:	Unit 107, Baldoyle Ind Estate, Baldoyle		
Job Site:	Priority Service Station, Nutgrove Avenue, Baldoyle		
Customer Order No.:		Vehicle:	New Megga
C1 #:	TFS #:	EWC Codes: 161001	

Details of Waste:

Disposal of 9.2 tonne of unerting water 08.02.08

We certify that the above described waste has been received, treated, stored and disposed of at our treatment facility in accordance with:

1. Our Waste permit and/or
2. Our Trade Effluent Discharge License and/or
3. The provisions of European Communities (Waste Oils) Regulations 1992
4. The current requirements of the Waste Management Act 1996
5. The terms of our EPA WASTE LICENSE NO. 192-1

SIGNED:


Authorised Signatory
RILTA Environmental Ltd.

RILTA ENVIRONMENTAL Ltd.
CERTIFICATE OF
AUTHORISED DISPOSAL



Job No:	1-30420	Operatives:	FN
Customer Name:	MSI Limited	Date:	February 08, 2008
Address:	Unit 107, Baldoyle Ind Estate, Baldoyle		
Job Site:	Priority Service Station, Nutgrove Avenue, Baldoyle		
Customer Order No.:		Vehicle:	New Megga
C1 #:	TFS #:	EWC Codes: 161001	


Details of Waste:

Disposal of 9.6 tonne of unerting water 08.02.08

We certify that the above described waste has been received, treated, stored and disposed of at our treatment facility in accordance with:

1. Our Waste permit and/or
2. Our Trade Effluent Discharge License and/or
3. The provisions of European Communities (Waste Oils) Regulations 1992
4. The current requirements of the Waste Management Act 1996
5. The terms of our EPA WASTE LICENSE NO. 192-1

SIGNED:


Authorised Signatory
RILTA Environmental Ltd.

RILTA ENVIRONMENTAL Ltd.
CERTIFICATE OF
AUTHORISED DISPOSAL



Job No:	1-30420	Operatives:	FN
Customer Name:	MSI Limited	Date:	February 08, 2008
Address:	Unit 107, Baldoyle Ind Estate, Baldoyle		
Job Site:	Priority Service Station, Nutgrove Avenue, Baldoyle		
Customer Order No.:		Vehicle:	New Megga
C1 #:	TFS #:	EWC Codes: 161001	

Details of Waste:

Disposal of 1.4 tonne of unerting water 08.02.08

We certify that the above described waste has been received, treated, stored and disposed of at our treatment facility in accordance with:

1. Our Waste permit and/or
2. Our Trade Effluent Discharge License and/or
3. The provisions of European Communities (Waste Oils) Regulations 1992
4. The current requirements of the Waste Management Act 1996
5. The terms of our EPA WASTE LICENSE NO. 192-1

SIGNED: 

Authorised Signatory
RILTA Environmental Ltd.

RILTA ENVIRONMENTAL Ltd.
CERTIFICATE OF
AUTHORISED DISPOSAL



Job No:	1-30420	Operatives:	FN/DB
Customer Name:	MSI Limited	Date:	February 07, 2008
Address:	Unit 107, Baldoyle Ind Estate, Baldoyle		
Job Site:	Priority Service Station, Nutgrove Avenue, Baldoyle		
Customer Order No.:		Vehicle:	New Megga
C1 #:	TFS #:	EWC Codes: 161001	

Details of Waste:

Disposal of 9.32 tonne of unerting water 07.02.08

We certify that the above described waste has been received, treated, stored and disposed of at our treatment facility in accordance with:

1. Our Waste permit and/or
2. Our Trade Effluent Discharge License and/or
3. The provisions of European Communities (Waste Oils) Regulations 1992
4. The current requirements of the Waste Management Act 1996
5. The terms of our EPA WASTE LICENSE NO. 192-1

SIGNED:


Authorised Signatory
RILTA Environmental Ltd.

RILTA ENVIRONMENTAL Ltd.
CERTIFICATE OF
AUTHORISED DISPOSAL



Job No:	1-30420	Operatives:	FN/DB
Customer Name:	MSI Limited	Date:	February 07, 2008
Address:	Unit 107, Baldoyle Ind Estate, Baldoyle		
Job Site:	Priority Service Station, Nutgrove Avenue, Baldoyle		
Customer Order No.:		Vehicle:	New Megga
C1 #:	TFS #:	EWC Codes: 161001	

Details of Waste:

Disposal of 9.46 tonne of unerting water 07.02.08

We certify that the above described waste has been received, treated, stored and disposed of at our treatment facility in accordance with:

1. Our Waste permit and/or
2. Our Trade Effluent Discharge License and/or
3. The provisions of European Communities (Waste Oils) Regulations 1992
4. The current requirements of the Waste Management Act 1996
5. The terms of our EPA WASTE LICENSE NO. 192-1

SIGNED:


Authorised Signatory
RILTA Environmental Ltd.

RILTA ENVIRONMENTAL Ltd.
CERTIFICATE OF
AUTHORISED DISPOSAL



Job No:	1-30420	Operatives:	South Coast Tran
Customer Name:	MSI Limited	Date:	February 07, 2008
Address:	Unit 107, Baldoyle Ind Estate, Baldoyle		
Job Site:	Priority Service Station, Nutgrove Avenue, Baldoyle		
Customer Order No.:		Vehicle:	04C23510
C1 #:	TFS #:	EWC Codes: 161001	

Details of Waste:

Disposal of 22.88 tonne of unerting water from ISO tanker 07.02.08

We certify that the above described waste has been received, treated, stored and disposed of at our treatment facility in accordance with:

1. Our Waste permit and/or
2. Our Trade Effluent Discharge License and/or
3. The provisions of European Communities (Waste Oils) Regulations 1992
4. The current requirements of the Waste Management Act 1996
5. The terms of our EPA WASTE LICENSE NO. 192 1

SIGNED:


Authorised Signatory
RILTA Environmental Ltd.

RILTA ENVIRONMENTAL Ltd.
CERTIFICATE OF
AUTHORISED DISPOSAL



Job No:	1-30420	Operatives:	South Coast Tran
Customer Name:	MSI Limited	Date:	February 07, 2008
Address:	Unit 107, Baldoyle Ind Estate, Baldoyle		
Job Site:	Priority Service Station, Nutgrove Avenue, Baldoyle		
Customer Order No.:		Vehicle:	04C23510
C1 #:	TFS #:	EWC Codes: 161001	

Details of Waste:

Disposal of 21.24 tonne of unerting water from ISO tanker 07.02.08

We certify that the above described waste has been received, treated, stored and disposed of at our treatment facility in accordance with:

1. Our Waste permit and/or
2. Our Trade Effluent Discharge License and/or
3. The provisions of European Communities (Waste Oils) Regulations 1992
4. The current requirements of the Waste Management Act 1996
5. The terms of our EPA WASTE LICENSE NO. 192-1

SIGNED: 

Authorised Signatory
RILTA Environmental Ltd.

RILTA ENVIRONMENTAL Ltd.
CERTIFICATE OF
AUTHORISED DISPOSAL



Job No:	1-30859	Operatives:	BB/GL
Customer Name:	MSI Limited	Date:	February 21, 2008
Address:	Unit 107, Baldoyle Ind Estate, Baldoyle		
Job Site:	Esso Priory Service Station, Nutgrove avenue,		
Customer Order No.:	19422	Vehicle:	Euro
C1 #:	TFS #:	EWC Codes: 130503	

Details of Waste:

Disposal of 9.4 tonne of Interceptor waste 21.02.08

We certify that the above described waste has been received, treated, stored and disposed of at our treatment facility in accordance with:

1. Our Waste permit and/or
2. Our Trade Effluent Discharge License and/or
3. The provisions of European Communities (Waste Oils) Regulations 1992
4. The current requirements of the Waste Management Act 1996
5. The terms of our EPA WASTE LICENSE NO. 192-I

SIGNED:


Authorised Signatory
RILTA Environmental Ltd.



M. S. M. Recycling Co. Ltd.

HARBOUR STREET, MOUNTMELICK, CO. LAOIS

Phone/Fax: Office Hours (0502) 24160

Mobile 086 - 2556858

email: msmrecycling@eircom.net

www.msmrecycling.com

Recycling Certificate

This is to certify that the following amount of

Glass

Metal

Was delivered by

M.S.I. Ltd

to our premises for recycling, in the month of

February'08

Tanks

:

6

(Ex Priory, Rathfarnham, Dublin)

Tracey Bergin

For and on behalf of

M.S.M. Recycling Ltd.



A DIVISION OF MURPHY CONCRETE MANUFACTURING LTD.

Hollywood • Naul • Co. Dublin

T: 01-8433 744 • F: 01-8433 747 • W: www.murphyenvironmental.ie

For the Attention of

Gabriel

MSI Limited

Unit 107, Baldoye Industrial Estate

Dublin 13

Our Ref.: W0129-01/KM/180408

Direct Dial: 01 84 33 744

Direct Fax: 01 84 33 747

Date: 18th April 2008

Waste Licence:	W0129-01 Hollywood
Re.:	Certificate of Disposal

Dear Gabriel,

Please be advised that Murphy Environmental Hollywood, EPA Waste Licence No. W0129-01 accepted 391.16 tonnes of Soil & Stones, EWC Code 170504 (21 loads) from the Priors Service Station, Nutgrove Road, Rathfarnham between the 19th February 2008 and the 22nd February 2008.

We look forward to doing business with you in the future. Should you have any queries on this or any other matters, please do not hesitate to contact me.

Yours Sincerely,

Kathryn Moonan
Kathryn Moonan

Assistant Facility Manager

Murphy Environmental

Nags Head,

Hollywood,

Naul,

Co. Dublin

Tel: 01-8433744 Fax: 01-8433747

e-mail: kathryn_moonan@murphyenvironmental.ie

Website: www.murphyenvironmental.ie





THE SITE DAILY SAFETY RECORD

Priory Service Station

Contacts and telephone numbers in the event of a reportable incident

Out of hours: the Esso switchboard will be answered by security who will make contact with the duty engineer.

Never leave an important message on an answer phone, make contact with the following.

	Contact Name. Must be entered.	Fixed. Must be entered	Mobile. Must be entered.
Principal Contractor	Brian McGonagle	01-8391000	087-2561869
ABB Planning Supervisor	Steve Andrew	01642 833787	07740 638740
Esso Project Manager	Peter Fooks	0121 7091117	07802 180658
Esso Maintenance	ABB M&R	01355 241800	-
Esso Out of Hours	Esso Security	01372 223232	-

Major works Red book 90 days
Tanks/SRBs Orange book 30 days
Minor works Yellow book 12 days

ESSO MANAGER AUDITS

- Perimeter fences unstable with inadequate signage, including to site office.
- Site entrances left open too long.
- Inductions need to be undertaken thoroughly.
- Little done to raise safety awareness – poor use of safety posters.
Site supervisor responsible for safety!
- Supervisors struggling with Red Book / Tool Box talks – training?
- Poor understanding (and recording) of Near Misses.
- Incidents not fully reported – First Aid.
- Site Supervisors (including Stand-ins) need to be fully trained in H&S requirements.
- Excavations/manholes poorly protected.
- Site supervisors must take firm line with all sub-contractors.
- PPE – Site Supervisors must ensure it is used appropriate.
- General housekeeping needs improving.
- Work Place Management needs to be adopted.

ESSO
DAILY SITE SAFETY RECORD

Date: 14-1-08

Tool Box Talk
Topics Covered:

Held By: Steve Hickey

<u>Site Safety</u>
<u>START WORK DISCUSSION Site mobilisation ISA T03</u>
<u>All Personnel to Comyent LMRA</u>

All personnel attending Toolbox Talk (including sub-contractors):

<u>PETER SILON</u>	<u>MSI</u>	<u>Silon</u>

Hazard Spotting, Unsafe Acts, Near Misses (from previous day):

<u>vehical movement,</u>
<u>vehicals entering & leaving Site</u>
<u>Cycle track on footpath along front of Site</u>
<u>children attending local School passing Site entrance</u>

Notes and Action Points:

<u>Spotter to assist with vehical movement extra care to</u>
<u>be taken while vehicals entering or leaving Site.</u>
<u>Main Gates to be kept closed & locked at all</u>
<u>times.</u>
<u>Be aware of public footpath while vehicals entering or</u>
<u>leaving Site.</u>

Reviewed by:
Safety Consultant

Signed:
.....

Date:
.....

Contractor Management/Safety Officer

.....

.....

Esso Engineer

.....

.....

ESSO
DAILY SITE SAFETY RECORD

Date: 14-1-08

Tool Box Talk
Topics Covered:

Held By: Steve Hickey
Site Supervisor Daily routine JSA T01

<u>SITE SAFETY</u>	<u>clearance</u>
<u>START WORK DISCUSSION: (vegetation work - works)</u>	<u>JSA 50</u>
<u>Carryout LMRA</u>	<u>Hand Dig to Buried Services</u>
	<u>JSA T106</u>

All personnel attending Toolbox Talk (including sub-contractors):

<u>Steve Hickey</u>	<u>MSI</u>	<u>Subcontractor</u>
<u>Nick Ridd</u>		

Hazard Spotting, Unsafe Acts, Near Misses (from previous day):

<u>vehical movement on site. JCB excavator</u>
<u>Buried Services</u>
<u>Trip or Falls</u>
<u>waste materials at Fourcourt area. Drums/Bags Sort.</u>
<u>NTK Cable overhead</u>

Notes and Action Points:

<u>Spotter to assist with movement of Site vehicles</u>
<u>Area to be cleared of vegetation only, no surface to</u>
<u>be excavated cat and Benny to be used while works</u>
<u>being carried out.</u>
<u>Goals post system to be put in place.</u>

Reviewed by:
Safety Consultant

Signed:
.....

Date:
.....

Contractor Management/Safety Officer
.....

Esso Engineer
.....

ESSO
DAILY SITE SAFETY RECORD

Date: 17-1-08

Tool Box Talk Held By: Steve Hickey
Topics Covered:

<u>Buried Services</u>		
<u>To</u>	<u>Site Supervisor Daily routine</u>	<u>SSA T01</u>
<u>START WORK Discussion</u>	<u>(1) Mobilisation to site</u>	<u>SSA T03</u>
<u>(2) Installation of Harnes fencing</u>		<u>SSA T04</u>
<u>(3) Vegetation clearance works</u>		<u>SSA 50</u>

All personnel attending Toolbox Talk (including sub-contractors):

<u>PETER SALON</u>	<u>MSI</u>	<u>Salon</u>
<u>Mark Mc Kenna</u>	<u>Mc Kenna</u>	<u>Mark Mc Kenna</u>

Hazard Spotting, Unsafe Acts, Near Misses (from previous day):

- 1) vehicular movement on site.
- 2) NTL over-head cable
- 3) waste material in fourcourt, = Trip or fall hazard.
- 4) vermin

Notes and Action Points:

- Personel to Carry out LMR1A
- 1) Spotter to assist with vehicular movement
 - 2) Be Bowl post System in place at NTL Cable
 - Personel to be aware of all procedures and Drills.
 - 3) waste material at fourcourt Cordoned off this material to be removed to safe area.

Reviewed by:
Safety Consultant

Signed:
.....

Date:
.....

Contractor Management/Safety Officer
.....

Esso Engineer
.....

ESSO
DAILY SITE SAFETY RECORD

Date: 21-1-08

Tool Box Talk
Topics Covered:

Held By: Steve Hickey

Tool Box	MEWP		
START WORK DISCUSSION			
(1)	Site Supervisor daily routine	SSA	T01
(2)	Mobilisation to Site	SSA	T03
(3)	Erection of Hoops fencing	SSA	T04
(4)	Removal of canopy sheeting	SSA	C+B 04

Carry out LMP14.

All personnel attending Toolbox Talk (including sub-contractors):

<u>Conor Dalton</u>		
<u>PETER SALON</u>		

Hazard Spotting, Unsafe Acts, Near Misses (from previous day):

<u>vehical movemet</u>
<u>weather conditions</u>

Notes and Action Points:

<u>Site personnel to assist with vehical movemet =</u>
<u>equipment to site, deliveries ect</u>
<u>Extra care while vehicals entering or exiting site</u>
<u>due to cycle track + bus lane.</u>

Reviewed by:
Safety Consultant

Signed:

Date:

Contractor Management/Safety Officer

.....

.....

Esso Engineer

.....

.....

**ESSO
DAILY SITE SAFETY RECORD**

Date: 22-1-08

**Tool Box Talk
Topics Covered:**

Held By: Steve Heaney

Tool Box work at Height	
START WORK DISCUSSION	
① Site Supervisor daily routine	JSA T01
② Installation of Hoop Perch	JSA T04
③ Removal of Canopy Sheeting	JSA C#3 04
④ Inserting of Tails	JSA T07

All personnel attending Toolbox Talk (including sub-contractors):

PETER SALON		
Conor Coston		

Hazard Spotting, Unsafe Acts, Near Misses (from previous day):

vehical movement

Notes and Action Points:

Tankers Delivery water to Site 2 no Spotters to assist with vehical movement extra care while entering and exiting Site.
All Site personnel to Carry out CMRA prior to any tasks.

Reviewed by:
Safety Consultant

Signed:

Date:

Contractor Management/Safety Officer

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Esso Engineer

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ESSO
DAILY SITE SAFETY RECORD

Date: 23-1-08

Tool Box Talk
Topics Covered:

Held By: Steve Hickey

START WORK Discussion		
① Site Supervisor Daily routine		JSA TO1
② Removal of Canopy Sheeting		JSA C+B04
③ Strip out loose fixtures ect ship		JSA C+B01

All personnel attending Toolbox Talk (including sub-contractors):

G. BYRDE.		
T. CARTON		
P. SALON		

Hazard Spotting, Unsafe Acts, Near Misses (from previous day):

① Loose Screws on Ground from Canopy Sheeting
② weather Conditions

Notes and Action Points:

① Sweep up screws could cause punture to MEWP Tyers
② High winds Stop work.

Reviewed by:
Safety Consultant

Signed:

Date:

Contractor Management/Safety Officer

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Esso Engineer

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ESSO
DAILY SITE SAFETY RECORD

Date: 24-1-08

Tool Box Talk
Topics Covered:

Held By: Steve Hickey

Tool Box	Buried Services
① Site Supervisor Daily routine	JSA T01
② Removal of Canopy Sheeting	JSA C+B04
③ Strip out loose fixtures of Slap	JSA C+B01
④ Trench pits	JSA T15
⑤ Instalation of Flange fencing	JSA T04

All personnel attending Toolbox Talk (including sub-contractors):

<u>W. Walsh</u>	<u>A. BIKER</u>	
<u>P. SALON</u>		
<u>C. CARTON</u>		
<u>P. GIBSON</u>		
<u>MARTIN Mc Eneaney</u>		

Hazard Spotting, Unsafe Acts, Near Misses (from previous day):

① weather conditions
② vehical movement
③ Broken Glass from notice board in Shop area.

Notes and Action Points:

① High winds + rain. works stopped on Canopy 1600 23-1-08
② Assist with vehical movement on Site.
All personnel to Carry out CMRA

Reviewed by:
Safety Consultant

Signed:

Date:

Contractor Management/Safety Officer

Esso Engineer

**ESSO
DAILY SITE SAFETY RECORD**

Date: 25-1-08

Tool Box Talk
Topics Covered:

Held By: Steve Hickey

TB Excavations / Excavators	
START WORK DISCUSSIONS	
(1) Site Supervisor daily routine	SSA TO1
(2) Removal of Conveying Gutters + Beams	SSA C+B 03/SSACB10
(3) Trial pits	SSA T15 / SSAT04
(4) Stripout Shop fittings	SSA C+B 01

All personnel attending Toolbox Talk (including sub-contractors):

<u>P. Gibbons</u>	<u>D. [Signature]</u>	
<u>L. Roberts</u>	<u>P. [Signature]</u>	
<u>[Signature]</u>	<u>[Signature]</u>	
<u>L. KATON</u>		

Hazard Spotting, Unsafe Acts, Near Misses (from previous day):

(1) Vehical movement on Site.
(2) weather conditions.
(3) excavators on Site.
(4) Excavators.
(5) Buried Services.
(6) Trees on Site. (Excavator knocked branch of tree to ground.)

Notes and Action Points:

(1) 2 no Spotters to assist with vehical movement on Site.
(2) works continue under permiting
(3) Keep out of swing area of track machine
(4) Fence off all excavations, no trial pit to be left unattended back fill pits as soon as EC has taken samples.

Reviewed by:
Safety Consultant

Signed:

Date:

Contractor Management/Safety Officer

[Signature]

20/1/08

Esso Engineer

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