FREON 502

M S D S

Canadian Centre for Occupational Health and Safety

Issue : 2001-1 (February, 2001)

*** IDENTIFICATION ***

MSDS RECORD NUMBER : 2438327
PRODUCT NAME(S) : CHLORODIFLUOROMETHANE & CHLOROPENTAFLUOROETHANE MIXTURE "FREON" 502
PRODUCT IDENTIFICATION : MSDS NUMBER: CEF00502
DATE OF MSDS : 1999-05-20
CURRENCY NOTE : This MSDS was provided to CCOHS in electronic form on 2000-10-30

*** MANUFACTURER INFORMATION ***

MANUFACTURER : DuPont Canada, Inc
ADDRESS : Post Office Box 2200
Streetsville
Mississauga Ontario
Canada L5M 2H3
Telephone: 800-387-2122 (Product Information)
EMERGENCY TELEPHONE NO. : 613-348-3616 (Transport, 24 HOURS)
613-348-3616 (Medical, 24 HOURS)

*** SUPPLIER/DISTRIBUTOR INFORMATION ***

SUPPLIER/DISTRIBUTOR : DuPont Canada, Inc
ADDRESS : Post Office Box 2200
Streetsville
Mississauga Ontario

Canada L5M 2H3
Telephone: 800-387-2122 (Product Information)
EMERGENCY TELEPHONE NO. : 613-348-3616 (Transport, 24 HOURS)
613-348-3616 (Medical, 24 HOURS)

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Material Identification

"FREON" is a registered trademark of DuPont.

Corporate MSDS Number : DU001047
Formula : CHClF2/CClF2CF3
(AZEOTROPE)

Product Use

Refrigerant

Tradenames and Synonyms

CHLORODIFLUOROMETHANE & CHLOROPENTAFLUOROETHANE MIXTURE

Company Identification

MANUFACTURER/DISTRIBUTOR
DuPont Canada, Inc.
P.O. Box 2200
Streetsville
Mississauga, Ontario L5M 2H3

PHONE NUMBERS
Product Information : 1-800-387-2122
Transport Emergency : 1-613-348-3616 (24 HOURS)
Medical Emergency : 1-613-348-3616 (24 HOURS)

COMPOSITION/INFORMATION ON INGREDIENTS

Components

Material	CAS Number	%
*ETHANE, CHLOROPENTAFLUORO ("FREON" 115)	76-15-3	51.2 WT%
*METHANE, CHLORODIFLUORO ("FREON" 22)	75-45-6	48.8 WT%

* Disclosure as a toxic chemical is required under Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

HAZARDS IDENTIFICATION

Potential Health Effects

Inhalation of high concentrations of vapor is harmful and may cause heart irregularities, unconsciousness, or death. Intentional misuse or deliberate inhalation can cause death without warning. Vapor reduces oxygen available for breathing and is heavier than air. Liquid contact can cause frostbite.

HUMAN HEALTH EFFECTS:

Overexposure to the vapors by inhalation may include temporary nervous system depression with anesthetic effects such as dizziness, headache, confusion, incoordination, and loss of consciousness. Higher inhalation overexposures to the vapors may cause temporary alteration of the heart's electrical activity with irregular pulse, palpitations, or inadequate circulation. Fatality from gross overexposure may occur. Skin contact with the liquid may cause frostbite.

Individuals with preexisting diseases of the central nervous system, cardiovascular system, lungs or kidneys may have increased susceptibility to the toxicity of excessive exposures.

Carcinogenicity Information

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

FIRST AID MEASURES

First Aid

INHALATION
If large amounts are inhaled, immediately remove to fresh air. Keep persons calm. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

SKIN CONTACT
In case of skin contact, flush with water for 15 minutes. Treat for frostbite if necessary by gently warming affected area.

EYE CONTACT
In case of eye contact, immediately flush eyes with plenty of water for 15 minutes. Call a physician.

INGESTION
Ingestion is not considered a potential route of exposure.

Notes to Physicians

Because of possible disturbances of cardiac rhythm, catecholamine drugs, such as epinephrine, should be used with special caution only in situations of emergency life support.

FIRE FIGHTING MEASURES

Flammable Properties

Flash Point	: Will not burn
Flammable limits in Air, % by Volume	
LEL	: Not applicable
UEL	: Not applicable
Autoignition	: 704 C (1299 F)

Fire and Explosion Hazards:

Cylinders are equipped with temperature and pressure relief devices but still may rupture under fire conditions. Decomposition may occur.

Extinguishing Media

As appropriate for combustibles in area.

Fire Fighting Instructions

Keep containers cool with water spray. Self-contained breathing apparatus (SCBA) is required if cylinders rupture or release under fire conditions.

ACCIDENTAL RELEASE MEASURES

Safeguards (Personnel)

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Accidental Release Measures

Ventilate area - especially low places where heavy vapors might collect. Remove open flames. Use self-contained breathing apparatus (SCBA) for large spills. Comply with Federal, State, and local regulations for reporting releases.

HANDLING AND STORAGE

Handling (Personnel)

Avoid breathing vapors. Avoid liquid contact with skin or eyes. Use with sufficient ventilation to keep employee exposure below recommended limits.

Storage

Clean, dry area. Do not heat above 52 deg C (125 deg F).

EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

Use with sufficient ventilation to keep employee exposure below recommended exposure limits. Local exhaust should be used when large amounts are released. Mechanical ventilation should be used in low or enclosed places.

Personal Protective Equipment

Impervious gloves and chemical splash goggles should be used if contact is possible. Under normal manufacturing conditions, no respiratory protection is required when using this product. Self-contained breathing apparatus (SCBA) is required if a spill or release occurs.

Exposure Guidelines

Applicable Exposure Limits

ETHANE, CHLOROPENTAFLUORO

PEL	(OSHA)	: None Established
TLV	(ACGIH)	: 1,000 ppm, 6,320 mg/m3, 8 Hr. TWA
AEL *	(DuPont)	: None Established

METHANE, CHLORODIFLUORO

PEL	(OSHA)	: None Established
TLV	(ACGIH)	: 1,000 ppm, 3,540 mg/m3, 8 Hr. TWA, A4
AEL *	(DuPont)	: None Established

* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

PHYSICAL AND CHEMICAL PROPERTIES

Physical Data

Boiling Point	: -45.4 C (-49.7 F)
Vapor Pressure	: 169 psia at 25 deg C (77 deg F)
Vapor Density	: 3.92 at 25 deg C (77 deg F) (Air= 1)
% Volatiles	: 100 WT%
Evaporation Rate	: >1 (CCl4 = 1)
Solubility in Water	: 0.15 WT% @ 25 C (77 F)
pH	: Neutral
Odor	: Slight ethereal

Form : Liquified gas

Color	: Clear, colorless
Density	: 1.22 g/cc at 25 deg C (77 deg F) - Liquid

STABILITY AND REACTIVITY

Chemical Stability

Material is stable. However, avoid open flames and high temperatures.

Incompatibility with Other Materials

Incompatible with alkali or alkaline earth metals- powdered

Al, Zn, Be, etc.

Polymerization

Polymerization will not occur.

Other Hazards

Decomposition : Decomposition products are hazardous. "FREON" 502 Refrigerant can be decomposed by high temperatures (open flames, glowing metal surfaces, etc.) forming hydrochloric and hydrofluoric acids, and possibly carbonyl halides.

TOXICOLOGICAL INFORMATION

Animal Data

"FREON" 115

Inhalation 4-hour LC50: >800,000 ppm in rats
Oral ALD : >1200 mg/kg in rats

The effects of a single inhalation exposure at high concentrations include rapid respiration and inactivity. Repeated exposure at lower levels produced no signs of toxicity. Exposure to 150,000 ppm with simultaneous epinephrine challenge produced cardiac arrhythmia in dogs. The effects of repeated ingestion include mild diarrhea, salivation and increased activity.

No animal test reports are available to define carcinogenic developmental or reproductive hazards. The compound does not produce genetic damage in bacterial cell cultures but has not been tested in animals.

"FREON" 22

Inhalation 4-hour LC50: 220,000 ppm in rats

The compound is a skin irritant and a slight eye irritant, but is not a skin sensitizer in animals.

Effects from single high exposures include central nervous system depression, anesthesia, rapid breathing, lung congestion and microscopic liver changes. Cardiac sensitization occurred in dogs at 50,000 ppm or greater from the action of exogenous epinephrine.

No toxic effects or abnormal histopathological observations occurred in rats repeatedly exposed to concentrations ranging from 10,000 to 50,000 ppm (v/v). Long-term exposures to 50,000 ppm (v/v) of vapors produced organ weight increases and a decrease in body weight gain, but no increased mortality or adverse hematological effects.

In chronic inhalation studies, HCFC-22, at a concentration of 50,000 ppm (v/v), produced a small, but statistically significant increase of late-occurring tumors involving salivary glands in male rats, but not female rats or male or female mice. In the same studies, no increased incidence of tumors was seen in either species at concentrations of 10,000 ppm or 1000 ppm (v/v).

Long-term administration in corn oil produced no effects on body weight or mortality.

HCFC-22 was mutagenic in some strains of bacteria in bacterial cell cultures, but not mammalian cell cultures or animals. It did not cause heritable genetic damage in mammals.

A slight, but significant increase in developmental toxicity was observed at high concentrations (50,000 ppm) of HCFC-22, a concentration which also produced toxic effects in the adult animal. Based on these findings, and other negative developmental studies, HCFC-22 is not considered a unique hazard to the conceptus. Studies of the effects of HCFC-22 on male reproductive performance have been negative. Specific studies to evaluate the effect on female reproductive performance have not been conducted, however, limited information obtained from studies on developmental toxicity do not indicate adverse effects on female reproductive performance at concentrations up to 50,000 ppm.

ECOLOGICAL INFORMATION

Ecotoxicological Information

Aquatic Toxicity:

"Freon" 22
48 hour EC50 - Daphnia magna: 433 mg/L

DISPOSAL CONSIDERATIONS

Waste Disposal

Comply with Federal, State, and local regulations. Remove to a permitted waste disposal facility or reclaim by distillation.

TRANSPORTATION INFORMATION

Shipping Information

DOT/IMO

Proper Shipping Name	: CHLORODIFLUOROMETHANE AND CHLOROPENTAFLUOROETHANE MIXTURE
Hazard Class	: 2.2
UN No.	: 1973
DOT/IMO Label	: NONFLAMMABLE GAS

Shipping Containers

Cylinders
Ton Tanks

Shipping Information -- Canada

TDG

Proper Shipping Name	: CHLORODIFLUOROMETHANE and CHLOROPENTAFLUOROETHANE Mixture
UN #	: 1973
TDG Class	: 2.2

REGULATORY INFORMATION

U.S. Federal Regulations

TSCA Inventory Status : Reported/Included.

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

Acute : Yes
Chronic : No
Fire : No
Reactivity : No
Pressure : Yes

HAZARDOUS CHEMICAL LISTS

SARA Extremely Hazardous Substance: No
CERCLA Hazardous Substance : No
SARA Toxic Chemical - See Components Section

Canadian Regulations

CEPA Status : DSL: REPORTED/INCLUDED.

WHMIS Classification:

CLASS A Compressed Gas

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

OTHER INFORMATION

NFPA, NPCA-HMIS

NPCA-HMIS Rating
Health : 1
Flammability : 0
Reactivity : 1

Personal Protection rating to be supplied by user depending on use conditions.

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Responsibility for MSDS : FLUOROPRODUCTS
Address : DuPont Canada Inc.
Box 2200, Streetsville,
Mississauga, Ontarion, L5M 2H3

Telephone : (905)821-5935

# Indicates updated section.

End of MSDS

FREON

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*                        M S D S                          *
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*  Canadian Centre for Occupational Health and Safety     *
* * * * * * * * * * * * * Issue : 2001-1 (February, 2001) *
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*** IDENTIFICATION ***

MSDS RECORD NUMBER : 1185887
PRODUCT NAME(S) : Freon 12, R 12
PRODUCT IDENTIFICATION : CAS No.: 75-71-8
Form No. F-85312-4
DATE OF MSDS : 1995-05-19

*** MANUFACTURER INFORMATION ***

MANUFACTURER : ANSUL INCORPORATED
ADDRESS : One Stanton Street
Marinette Wisconsin
U.S.A. 54143-2542
Telephone: 715-735-7411 (Other Information Calls)
EMERGENCY TELEPHONE NO. : 800-424-9300 (CHEMTREC)

FREON 12, R 12

QUICK IDENTIFIER (In Plant Common Name)

Prepared By: Safety and Health Department
Date Prepared: May 19, 1995

SECTION 1 - IDENTITY

Common Name: (used on label) Freon 12, R 12
(Trade Name and Synonyms)
CAS No.: 75-71-8
Chemical Name: Dichlorodifluoromethane
Chemical Family: Halogenated Methane
Formula: CCl2F

SECTION 2 - INGREDIENTS

PART A - HAZARDOUS INGREDIENTS

Principal Hazardous Component(s) (chemical and common name(s)):	Wt. %	CAS No.
Dichlorodifluoromethane		75-71-8

ACGIH TLV: 1,000 ppm
Acute Toxicity Data: LC50(rat) 800,000 ppm/30 min.

PART B - OTHER INGREDIENTS

Other Component(s) (chemical and common name(s)):	Wt. %	CAS No.
None		N/A

Acute Toxicity Data: N/A

SECTION 3 - PHYSICAL AND CHEMICAL CHARACTERISTICS

(Fire and Explosion Data)

Boiling Point: -21.6 deg F
Specific Gravity (H2O=1): 1.33
Vapor Pressure (mm Hg): 70.1 psi @ 70 deg F
Percent Volatile by Volume (%): 100
Vapor Density (Air = 1): 4.3
Evaporation Rate (= 1): N/A Gas at room temperature
Solubility in Water: Negligible
Reactivity in Water: Unreactive
Appearance and Odor: Colorless gas, sweet odor.

Flash Point: None
Flammable Limits in Air % by Volume: N/A
Extinguisher Media: N/A
Auto-Ignition Temperature: N/A

Special Fire Fighting Procedures: Use water to cool fire-exposed cylinders or other containers. Self-contained breathing apparatus with full facepiece and protective clothing when re-entering unventilated fire areas where product has been used.

Unusual Fire and Explosion Hazards: Containers are equipped with pressure and temperature relief devices, but rupture may occur under fire conditions and toxic decomposition by-products may be formed if used in fires over 900 deg F.

SECTION 4 - PHYSICAL HAZARDS

Stability: Unstable [ ] Stable [X]

Conditions to Avoid: Can be decomposed under fire conditions above 900 deg F.

Incompatibility (Materials to Avoid): Active metals and fires involving metal hydrides.

Hazardous Decomposition Products: Thermal decomposition at temperatures above 900 deg F forming hydrochloric and hydrofluoric acids. These by-products have a sharp irritating odor. They are dangerous even in low concentrations, and in sufficient concentrations can result in personal injury or death.

Hazardous Polymerization: May Occur [ ] Will Not Occur [X]

Conditions to Avoid: N/A

NOTE: As used in Ansul extinguishers or cylinders, Freon 12 is a gas compressed under pressure up to 360 psi at 70 deg F.

SECTION 5 - HEALTH HAZARDS

Threshold Limit Value: 1000 ppm is the OSHA PEL and the ACGIH TLV. NOTE: The effects of exposure to Freon 12 should disappear quickly upon removal from exposure. LC50 rats greater than 800,000 ppm/30 min.

Routes of Entry:

- Eye Contact: The liquid form of this material can produce chilling sensations and discomfort, also frostbite.
- Skin Contact: Evaporation of liquid from the skin can produce chilling sensations. Frostbite can occur.
- Inhalation: Vapor is heavier than air and can cause suffocation by reducing oxygen available for breathing. Breathing very high concentrations of vapor can cause lightheadedness, giddiness, shortness of breath, and may lead to narcosis, cardiac irregularities, unconsciousness or even death. LC50 rats, 800,000 ppm/30 min.
- Ingestion: Ingestion is not likely to occur since this material is gas at room temperature.

Signs and Symptoms:

- Acute Overexposure: Dizziness, impaired coordination, reduced mental acuity, and cardiac effects can occur. Unconsciousness or even death in high concentrations with longer exposures.
- Chronic Overexposure: None known when occupational exposures are below the TLV.

Medical Conditions Generally: Cardiac problems.

Aggravated by Exposure:

Chemical Listed as Carcinogen or Potential:

National Toxicology Program:	Yes [ ] No [X]	I.A.R.C. Monographs:	Yes [ ] No [X]	OSHA:	Yes [ ] No [X]

SECTION 6 - EMERGENCY AND FIRST AID PROCEDURES

Eye Contact:	Immediately flush eyes with plenty of water for at least 15 minutes while holding lids open. If redness, itching or a burning sensation develops, get Medical attention. Treat for frostbite if necessary.
Skin Contact:	Wash the material off the skin with copious amounts of soap and water for at least 15 minutes. If redness, itching, or burning occurs, get Medical attention. Treat for frostbite if necessary.
Inhalation:	Remove victim to fresh air. If cough or other respiratory symptoms occur, consult Medical personnel. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Consult Medical personnel.
Ingestion:	If patient is conscious, give 1 to 2 glasses of warm water to drink and get Medical attention. DO NOT INDUCE VOMITING. Have victim lie down and keep warm.
NOTE TO PHYSICIAN:	Product is an asphxiant and can induce cardiac muscle sensitization to circulating epinephrine-like compounds. Do NOT give adrenalin or similar sympathomimetic drugs. Do NOT allow victim to exercise until 24 hours following specific exposures. Freeze burns of mucosal tissue can develop following specific exposures.

SECTION 7 - SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type):	Not normally necessary if controls are adequate. Self-contained breathing apparatus must be worn when using this product in testing Halon suppression systems.		
Ventilation:	Local Exhaust: Recommended to control exposures. See mechanical.	Mechanical (General): Recommended in low areas or indoors where vapors may collect.	
Protective Gloves:	Lined butyl gloves for handling liquid.	Eye Protection:	Chemical goggles recommended. Full faceshield in addition if splashing of liquid form

	is possible.
Other Protective Clothing or Equipment:	Eye wash and safety showers are good safety practice in work areas when working with liquefied product.

SECTION 8 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Precautions to be Taken in Handling and Storage:	Store as a liquefied compressed gas in DOT approved pressure vessels away from high temperatures. If cylinder is not attached to a system, it must be safety capped to protect against actuation of valve and release of agent.
Other Precautions:	Note incompatibility information in Section 4.
Steps to be Taken in Case Material is Released or Spilled:	Evacuate area; ventilate to outside atmosphere. Cool or remove hot, metal surfaces or source of non-extinguished flames.
Waste Disposal Methods:	EPA Hazardous Waste No. UO 75. Dispose of in compliance with local, state, and federal regulations.

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM RATINGS

HAZARD INDEX:

4	Severe Hazard	1	HEALTH
3	Serious Hazard	0	FLAMMABILITY
2	Moderate Hazard	0	REACTIVITY
1	Slight Hazard		
0	Minimal Hazard		

N/A = Not Applicable NDA = No Data Available

Form No. F-85312-4

GASOLINE (GENERIC)

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*                        M S D S                          *
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*  Canadian Centre for Occupational Health and Safety     *
* * * * * * * * * * * * * Issue : 2001-1 (February, 2001) *
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*** IDENTIFICATION ***

MSDS RECORD NUMBER : 2461632
PRODUCT NAME(S) : GASOLINE (GENERIC)
PRODUCT IDENTIFICATION : MSDS Number: 002914
DATE OF MSDS : 2000-07-22
CURRENCY NOTE : This MSDS was provided to CCOHS in electronic form on 2000-10-03

*** MANUFACTURER INFORMATION ***

MANUFACTURER : Chevron Products Company
ADDRESS : 6001 Bollinger Canyon Road
San Ramon California
U.S.A. 94583
Telephone: 800-689-3998 (Product Information, MSDS Requests) 510-242-5357 (Product Information, Technical Information)
EMERGENCY TELEPHONE NO. : 800-231-0623 (Health, 24 hr)
510-231-0623 (International, Health, 24 hr)
800-424-9300 (CHEMTREC, Transportation, 24 hr)
703-527-3887 (Transportation 24hr, Emergency Info Centers are in USA, Int'l collect calls accepted)

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

GASOLINE (GENERIC)

COMPANY IDENTIFICATION

Chevron Products Company
Marketing, MSDS Coordinator
6001 Bollinger Canyon Road
San Ramon, CA 94583

EMERGENCY TELEPHONE NUMBERS

HEALTH (24 hr): (800)231-0623 or (510)231-0623 (International)
TRANSPORTATION (24 hr): CHEMTREC (800)424-9300 or (703)527-3887
Emergency Information Centers are located in U.S.A.
Int'l collect calls accepted

PRODUCT INFORMATION: (800)689-3998 MSDS Requests and Product Information

Revision Number: 14 Revision Date: 07/22/00 MSDS Number: 002914

2. COMPOSITION/INFORMATION ON INGREDIENTS

100.0 % GASOLINE (GENERIC)

CONTAINING

COMPONENTS	AMOUNT	LIMIT/QTY	AGENCY/TYPE
GASOLINE (GENERIC)	100.00%	890 mg/m3	ACGIH TWA
		1480 mg/m3	ACGIH STEL
		2000 mg/m3	OSHA PEL

POTENTIALLY

INCLUDING

BENZENE			
Chemical Name: BENZENE			
CAS71432	< 5.00%	0.5 ppm	ACGIH TWA
		2.5 ppm	ACGIH STEL
		1 ppm	OSHA PEL
		5 ppm	OSHA CEILING
		10 LBS	CERCLA 302.4 RQ
ETHYL BENZENE			
Chemical Name: BENZENE, ETHYL-			
CAS100414		100 ppm	ACGIH TWA
		125 ppm	ACGIH STEL
		100 ppm	OSHA PEL
		1,000 LBS	CERCLA 302.4 RQ
XYLENE			
Chemical Name: BENZENE, DIMETHYL-			
CAS1330207		100 ppm	ACGIH TWA
		150 ppm	ACGIH STEL
		100 ppm	OSHA PEL
		100 LBS	CERCLA 302.4 RQ
TOLUENE			
Chemical Name: TOLUENE			
CAS108883		50 ppm	ACGIH TWA
		200 ppm	OSHA PEL

	300 ppm	OSHA CEILING
	1,000 LBS	CERCLA 302.4 RQ
N-BUTANE		
Chemical Name: N-BUTANE		
CAS106978	800 ppm	ACGIH TWA
N-HEPTANE		
Chemical Name: N-HEPTANE		
CAS142825	400 ppm	ACGIH TWA
	500 ppm	ACGIH STEL
	500 ppm	OSHA PEL
N-HEXANE		
Chemical Name: N-HEXANE		
CAS110543	50 ppm	ACGIH TWA
	500 ppm	OSHA PEL
	5,000 LBS	CERCLA 302.4 RQ
HEXANE ISOMERS (OTHER THAN N)		
HEXANES		
	500 ppm	ACGIH TWA
	1000 ppm	ACGIH STEL
PENTANE (ALL ISOMERS)		
PENTANES		
	600 ppm	ACGIH TWA
	750 ppm	ACGIH STEL
	1000 ppm	OSHA PEL
CYCLOHEXANE		
Chemical Name: CYCLOHEXANE		
CAS110827	300 ppm	ACGIH TWA
	300 ppm	OSHA PEL
	1,000 LBS	CERCLA 302.4 RQ
METHYLCYCLOHEXANE		
Chemical Name: CYCLOHEXANE, METHYL		
CAS108872	400 ppm	ACGIH TWA
	500 ppm	OSHA PEL
TRIMETHYLBENZENE		
Chemical Name: BENZENE, TRIMETHYL-		
CAS25551137	25 ppm	ACGIH TWA
2,2,4-TRIMETHYLPENTANE		
Chemical Name: 2,2,4-TRIMETHYLPENTANE		
CAS540841	1,000 LBS	CERCLA 302.4 RQ

CAN CONTAIN

METHYL TERT BUTYL ETHER (MTBE)
Chemical Name: 2-METHOXY-2-METHYL PROPANE

CAS1634044	< 15.00%	40 ppm	ACGIH TWA
		50 ppm	Chevron STEL
		1,000 LBS	CERCLA 302.4 RQ

ETHYL TERT BUTYL ETHER (ETBE)
Chemical Name: 2-ETHOXY-2-METHYL PROPANE

CAS637923	< 18.00%	NONE	NA

TERT-AMYL METHYL ETHER (TAME)
Chemical Name: 2-METHOXY-2-METHYL-BUTANE

CAS994058	< 17.00%	50 ppm	Chevron STEL

OR

ETHANOL
Chemical Name: ETHYL ALCOHOL

CAS64175	< 10.00%	1000 ppm	ACGIH TWA
		1000 ppm	OSHA PEL

COMPOSITION COMMENT:
Refer to the OSHA Benzene Standard (29 CFR 1910.1028) and Table Z-2 for detailed training, exposure monitoring, respiratory protection and medical surveillance requirements before using this product.

Motor gasoline is considered a mixture by EPA under the Toxic Substances Control Act (TSCA). The refinery streams used to blend motor gasoline are all on the TSCA Chemical Substances Inventory. The appropriate CAS number for refinery blended motor gasoline is 86290-81-5. The product specifications of motor gasoline sold in your area will depend on applicable Federal and State regulations. Ethyl Alcohol is only added in limited specific distribution areas.

Revision Number: 14 Revision Date: 07/22/00 MSDS Number: 002914

3. HAZARDS IDENTIFICATION

********** EMERGENCY OVERVIEW **********

Variable colored liquid with a petroleum hydrocarbon odor.

- EXTREMELY FLAMMABLE
- HARMFUL OR FATAL IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE
- VAPOR HARMFUL

Revision Number: 14 Revision Date: 07/22/00 MSDS Number: 002914