PACE: 1 DATE: 06/24/05 ACCT: 888235001 INDEX: A51748343 CAT NO: A962P4 PO NBR: MARY P/VC/6/23/05

\*\*\* MATERIAL SAFETY DATA SHEET \*\*\*

Reagent Alcohol

\*\*\*\* SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION \*\*\*\*

MSDS Name: Reagent Alcohol

Catalog Numbers:
BW1120200, A962-200, A962-4, A962-P4, A962F-1GAL, A962F1GALLC, A962P-4, A962P1GAL, A962RB200, A962S-4, HC6001GAL, NC9650491, FFRRF

Ethanol, Dehydrated Alcohol; Ethyl Hydrate; Specially Denatured

Alcohol.

Company Identification: Fisher Diagnostics Fisher Scientific Company LLC
8365 Valley Pike
Middletown, VA 22645-0307
For information, call: 800-528-0494
Emergency Number: 800-524-0294

For CHEMTREC assistance, call: 800-424-9300 For International CHEMTREC assistance, call: 703-527-3887

\*\*\*\* SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS \*\*\*\*

1					
	CAS#	Chemical Name	8	EINECS#	
l					
l	64-17-5	Ethyl alcohol	90.0	200-578-6	
l	67-56-1	Methyl alcohol	5.0	200-659-6	
l	67-63-0	Isopropyl alcohol	5.0	200-661-7	

Hazard Symbols: XN F

Risk Phrases: 11 20/21/22 68/20/21/22

\*\*\*\* SECTION 3 - HAZARDS IDENTIFICATION \*\*\*\* EMERGENCY OVERVIEW

Appearance: clear, colorless liquid. Flash Point: 55 deg F. Danger! Flammable liquid and vapor. Causes respiratory tract irritation. May cause digestive tract irritation. May cause central nervous system depression. May be absorbed through intact skin. May form explosive peroxides. Poison! Cannot be made non-poisonous. Causes severe eye irritation. May be fatal or cause blindness if swallowed. Vapor harmful. This substance has caused adverse reproductive and fetal effects in humans. Causes moderate skin irritation. May cause liver, kidney and heart damage. Target Organs: Kidneys, heart, central nervous system, liver, gastrointestinal system, cardiovascular system, eyes.

Potential Health Effects

Causes severe eye irritation. May cause painful sensitization to light. May cause chemical conjunctivitis and corneal damage.

Causes moderate skin irritation. May be absorbed through the skin. May cause cyanosis of the extremities.

Ingestion:

May be fatal or cause blindness if swallowed. May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause systemic toxicity with acidosis. May cause central nervous system depression, characterized by excitement, followed by headache, dizziness, drowsiness, and nausea. Advanced stages may cause collapse, unconsciousness, coma and possible death due to respiratory failure.

Inhalation:

Causes respiratory tract irritation. May cause visual impairment and possible permanent blindness. May cause narcotic effects in high concentration. Vapors may cause dizziness or suffocation.

Chronic:

Prolonged or repeated skin contact may cause defatting and dermatitis. May cause reproductive and fetal effects. Laboratory experiments have resulted in mutagenic effects. Animal studies have reported the development of tumors. Prolonged exposure may cause liver, kidney, and heart damage.

\*\*\*\* SECTION 4 -- FIRST AID MEASURES \*\*\*\*

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately

Skin:

Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing

4.720

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Call a poison control center. If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid.

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:

s to Physician: Effects may be delayed. Ethanol may inhibit methanol metabolism. Treat symptomatically and supportively. Persons with skin or eye disorders or liver, kidney, chronic respiratory diseases, or central and peripheral nervous sytem diseases may be at increased risk from exposure to this substance.

Antidote:

Ethanol may inhibit methanol metabolism.

\*\*\*\* SECTION 5 - FIRE FIGHTING MEASURES \*\*\*\*

General Information:

Containers can build up pressure if exposed to heat and/or fire. As in any fire, wear a self-contained breathing apparatus in in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors may form an explosive mixture with air. Vapors can travel to a source of ignition and flash back. Will burn if involved in a fire. Flammable Liquid. Can release vapors that form explosive mixtures at temperatures above the flashpoint. Use water spray to keep fire-exposed containers cool. Containers may explode explosive mixtures at temperatures above the Hashpoint. Use water spray to keep fire-exposed containers cool. Containers may explode in the heat of a fire. May form explosive peroxides. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas. Will be easily ignited by heat, sparks or flame.

Extinguishing Media:

nguishing Media:
For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. For large fires, use water spray, fog, or alcohol-resistant foam. Use water spray to cool fire-exposed containers. Water may be ineffective. Do NOT use straight streams of water. For large fires, use dry chemical, carbon dioxide, alcohol-resistant foam, or water spray. Cool containers with flooding quantities of water until well after fire is out.

Autoignition Temperature: 685 deg F ( 362.78 deg C) Flash Point: 55 deg F ( 12.78 deg C) Explosion Limits, lower: 3.3 vol % Explosion Limits, upper: 19 vol % NFPA Rating: (estimated) Health: 1; Flammability: 3; Instability: 0

\*\*\*\* SECTION 6 - ACCIDENTAL RELEASE MEASURES \*\*\*\*

General Information: Use proper personal protective equipment as indicated in Section  $8\,.$ 

Spills/Leaks:

Absorb spill with inert material (e.g. vermiculite, sand or earth), Absorb spill with their material (e.g. vermiculte, sand of eatth), then place in suitable container. Remove all sources of ignition. Use a spark-proof tool. Provide ventilation. A vapor suppressing foam may be used to reduce vapors. Water spray may reduce vapor but may not prevent ignition in closed spaces.

\*\*\*\* SECTION 7 - HANDLING and STORAGE \*\*\*\*

Handling:

Wash thoroughly after handling. Remove contaminated clothing and Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use only in a well-ventilated area. Ground and bond containers when transferring material. Use spark-proof tools and explosion proof equipment. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Avoid contact with heat, sparks and flame. Do not ingest or inhale. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

Storage: keep away from heat, sparks, and flame. Keep away from sources of ignition. Store in a tightly closed container. Keep from contact with oxidizing materials. Store in a cool, dry, well-ventilated area away from incompatible substances. Flammables-area. Do not store near perchlorates, peroxides, chromic acid or nitric acid.

\*\*\*\* SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION \*\*\*\*

Engineering Controls:

Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Use only under a chemical fume hood.

Expo	sure	Limi	ts	
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Chemical Name	ACGIH	NIOSH	OSHA - Final PELs	ı
				Ĺ

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Ethyl alcohol 11000 ppm 1000 ppm TWA; 1900 mg/m3 TWA 1000 ppm TWA; 1900 mg/m3 TWA 3300 ppm IDLH 200 ppm; 250 ppm 200 ppm TWA; 260 200 ppm TWA; 260 Methyl alcohol STEL; skin mg/m3 TWA 6000 DOM IDLH cutaneous absorption 200 ppm; 400 ppm 400 ppm TWA; 980 Isopropyl alcohol 400 ppm TWA; 980 mg/m3 TWA 2000 STREET. mg/m3 TWA HJGI mgg

OSHA Vacated PELs: Ethyl alcohol: 1000 ppm TWA; 1900 mg/m3 TWA Methyl alcohol: 200 ppm TWA; 260 mg/m3 TWA Isopropyl alcohol: 400 ppm TWA; 980 mg/m3 TWA

Personal Protective Equipment

. Eyes:

Wear chemical goggles.

Skin:

Wear appropriate protective gloves to prevent skin

Clothing:

Wear appropriate protective clothing to prevent skin

Respirators:

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

\*\*\*\* SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES \*\*\*\*

Physical State: Liquid Color: clear, colorless aromatic odor pH: No data Vapor Pressure: Vapor Density: Evaporation Rate: Viscosity: Boiling Point: Freezing/Melting Point: Decomposition Temperature: Solubility in water: Specific Gravity/Density:

44 mm Hg 1.24 kg/m3 No data 1.2 cp 173.3 deg F -173.4 dea F Not available. Soluble. 0.8 СНЗСН2ОН 46.0414

\*\*\*\* SECTION 10 - STABILITY AND REACTIVITY \*\*\*\*

Chemical Stability:

Molecular Formula: Molecular Weight:

Stability unknown. This material may be sensitive to peroxide

formation. Conditions to Avoid:

High temperatures, incompatible materials, ignition sources, excess

heat, oxidizers.
Incompatibilities with Other Materials:

Acetyl bromide, alkyl aluminum salts, beryllium dihydride, carbon tetrachloride + metals, chloroform + heat, chloroform + sodium hydroxide, cyanuric chloride, diethyl zinc, nitric acid, potassium-tert-butoxide, strong acids, caustics (e.g. ammonia, ammonium hydroxide, calcium hydroxide, potassium hydroxide, sodium hydroxide), alliphatic amines, isocyanates, chromic anhydride, Oxidants (such as barium perchlorate, bromine, chlorine, hydrogen Oxidants (such as barrium perchlorate, bromine, chlorine, hydrogen peroxide, lead perchlorate, perchloric acid, sodium hypochlorite), perchloric acid, phosphorus trioxide, Attacks some forms of plastics, rubbers, and coatings., active metals, strong oxidizing agents, alkali metals, ammonia, hydrazine, peroxides, sodium, acid anhydrides, calcium hypochlorite, chromyl chloride, nitrosyl perchlorate, bromine pentafluoride, silver nitrate, mercuric nitrate, magnesium perchlorate, acid chlorides, platinum, uranium hexafluoride, silver oxide, iodine heptafluoride, disulfur dichloride, tetrachlorosilane + water, acetyl chloride, permanganic

halogens, aluminum. Hazardous Decomposition Products:

Carbon monoxide, irritating and toxic fumes and gases, carbon

acid, ruthenium (VIII) oxide, uranyl perchlorate, potassium dioxide,

dioxide.

Hazardous Polymerization: Has not been reported.

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\*\*\*\* SECTION 11 - TOXICOLOGICAL INFORMATION \*\*\*\*

CAS# 64-17-5: KQ6300000 CAS# 67-56-1: PC1400000 CAS# 67-63-0: NT8050000

LD50/LC50:

CAS# 64-17-5: Draize test, rabbit, eye: 500 mg Severe; Draize test, rabbit, eye: 500 mg/24H Mild; Draize test, rabbit, skin: 20 mg/24H Moderate; Inhalation, mouse: LC50 = 39 gm/m3/4H; Inhalation, rat: LC50 = 20000 pm/l0H; Oral, mouse: LD50 = 3450 mg/kg; Oral, rabbit: LD50 = 6300 mg/kg; Oral, rat: LD50 = 9000 mg/kg; Oral, rat: LD50 = LD50 = 6300 mg/kg; Oral, rat: LD50 = 9000 mg/kg, Oral, 7060 mg/kg.
CAS# 67-56-1: Draize test, rabbit, eye: 40 mg Moderate; Draize test, rabbit, eye: 100 mg/24H Moderate; Draize test, rabbit, eye: 100 mg/24H Moderate; Inhalation, rabbit: LC50 = 81000 mg/m3/14H; Inhalation, rat: LC50 = 64000 ppm/4H; Oral, mouse: LD50 = 7300 mg/kg; Oral, rabbit: LD50 = 14200 mg/kg; Oral, rat: LD50 = 56000 mg/kg; Skin, rabbit: LD50 = 15800 mg/kg.
CAS# 67-63-0: Draize test, rabbit, eye: 100 mg Severe; Draize test, rabbit, eye: 10 mg Moderate; Draize test, rabbit, eye: 100 mg/24H Moderate; Draize test, rabbit, skin: 500 mg/Mid; Inhalation, mouse: LC50 = 53000 mg/m3; Inhalation, LC50 = 53000 mg/m3; Inhalation, rat: LC50 = 72600 mg/m3; Inhalation, rat: LC50 = 3600 mg/m3; Inhalation, rat: LC50 = 3600 mg/kg; Oral, mouse: LD50 = 3600 mg/kg; Oral, rabbit: LD50 = 6410 mg/kg; Oral, rat: LD50 = 5000 mg/kg; Oral, rat: LD50 = 5045 mg/kg; Skin, rabbit: LD50 = 12800 mg/kg.Carcinogenicity:

Ethyl alcohol .

ACGIH: A4 - Not Classifiable as a Human Carcinogen ACGIH: A-Methyl alcohol -

Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Isopropyl alcohol - Not Classifiable as a Human Carcinogen IARC: Group 3 carcinogen

Epidemiology:

Methanol and phenol have been shown to produce fetoxicity in the embryo or fetus in laboratory animals. Specific developmental abnormalities for methanol include the musculoskeletal, urogenital. and cardiovascular systems.

Teratogenicity:
CAS# 64-17-5: Oral, Human - woman: TDLo = 41 gm/kg (female 41 week(s) after conception) Effects on Newborn - Appar score (human only) and Effects on Newborn - other neonatal measures or effects and Effects on Newborn - drug dependence,

Reproductive Effects:

CAS# 64-17-5: Intrauterine, Human - woman: TDLo = 200 mg/kg (female 5 day(s) pre-mating) Fertility - female fertility index (e.g. # females pregnant per # sperm positive females; # females pregnant per # females mated).

Neurotoxicity:

No data available.

No data available.

Mutagenicity:
 CAS# 64-17-5: DNA Inhibition: Human, Lymphocyte = 220 mmol/L.;
 Cytogenetic Analysis: Human, Lymphocyte = 1160 gm/L.; Cytogenetic Analysis: Human, Eibroblast = 12000 ppm.; Cytogenetic Analysis:
 Human, Leukocyte = 1 pph/72H (Continuous).; Sister Chromatid
 Exchange: Human, Lymphocyte = 500 ppm/72H (Continuous).

The hazards associated with methanol may be seen in this product.

\*\*\*\* SECTION 12 - ECOLOGICAL INFORMATION \*\*\*\*

Ecotoxicity: pricity:
Fish: Rainbow trout: LC50 = 12900-15300 mg/L; 96 Hr; Flow-through @ 24-24.3&CFish: Rainbow trout: LC50 = 11200 mg/L; 24 Hr; Fingerling (Unspecified) Bacteria: Phytobacterium phosphoreum: EC50 = 34900 mg/L; 5-30 min; Microtox testCAS# 64-17-5: When spilled on land it is apt to volatilize, biodegrade, and leach into the ground water, but no data on the rates of these processes could be found. Its fate in ground water is unknown. When released into water it will volatilize and probably biodegrade. It would not be expected to adsorb to sediment or bioconcentrate in fish.

\*\*\*\* SECTION 13 - DISPOSAL CONSIDERATIONS \*\*\*\*

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.
US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. RCRA P-Series: None listed. RCRA U-Series: CAS# 67-56-1: waste number U154 (Ignitable waste).

\*\*\*\* SECTION 14 - TRANSPORT INFORMATION \*\*\*\*

US DOT

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PAGE: 5
                                          ACCT:
                                                     888235001
     DATE:
     INDEX: A51748343 CAT NO: A962P4
                                                                      PO NER: MARY P/VC/6/23/05
             Shipping Name: ALCOHOLS, N.O.S. Hazard Class: 3
                   UN Number: UN1987
             Packing Group: II
     Canadian TDG
             Shipping Name: ALCOHOLS NOS
Hazard Class: 3
                   UN Number: UN1987
       Other Information: FLASHPOINT 14C
                         **** SECTION 15 - REGULATORY INFORMATION ****
HS FEDERAL
     TSCA
             CAS# 64-17-5 is listed on the TSCA inventory. CAS# 67-63-0 is listed on the TSCA inventory. CAS# 67-63-0 is listed on the TSCA inventory.
          Health & Safety Reporting List
CAS# 67-63-0: Effective Date: 12/15/86; Sunset Date: 12/15/96
          Chemical Test Rules
             CAS# 67-63-0: Testing required by manufacturers, importers, processors
          Section 12b
             None of the chemicals are listed under TSCA Section 12b.
          TSCA Significant New Use Rule
             None of the chemicals in this material have a SNUR under TSCA.
          CERCLA Hazardous Substances and corresponding RQs
CAS# 67-56-1: 5000 lb final RQ; 2270 kg final RQ
SARA Section 302 Extremely Hazardous Substances
             None of the chemicals in this product have a TPQ
          SARA Codes
             CAS # 64-17-5: acute, chronic, flammable.
CAS # 67-56-1: acute, flammable.
             CAS # 67-63-0: acute, chronic, flammable.
           Section 313
             action 313 This material contains Methyl alcohol (CAS# 67-56-1, 5 0%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 372. This material contains Isopropyl alcohol (CAS# 67-63-0, 5 0%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 372.
             1 Air Act: {\rm CAS\#~67-56-1} is listed as a hazardous air pollutant (HAP). This material does not contain any Class 1 Ozone depletors. This material does not contain any Class 2 Ozone depletors.
      Clean Water Act:
             None of the chemicals in this product are listed as Hazardous
             Substances under the CWA.

None of the chemicals in this product are listed as Priority
             Pollutants under the CWA.
             None of the chemicals in this product are listed as Toxic Pollutants under the \ensuremath{\mathsf{CWA}}\xspace .
     OSHA:
             None of the chemicals in this product are considered highly hazardous
STATE
     Ethyl alcohol can be found on the following state right to know
     lists: California, New Jersey, Pennsylvania, Minnesota.
Massachusetts.
      Methyl alcohol can be found on the following state right to know
      lists: California, New Jersey, Pennsylvania, Minnesota,
      Massachusetts.
      Isopropyl alcohol can be found on the following state right to know
      lists: California, New Jersey, Pennsylvania, Minnesota,
      Massachusetts.
     WARNING: This product contains Ethyl alcohol, a chemical known to the state of California to cause birth defects or other reproductive
California No Significant Risk Level:
None of the chemicals in this product are listed.
European/International Regulations
     European Labeling in Accordance with EC Directives
Hazard Symbols: XN F
             Risk Phrases:
                                R 11 Highly flammable.
R 20/21/22 Harmful by inhalation, in contact with
skin and if swallowed.
R 68/20/21/22 Harmful: possible risk of
irreversible effects through inhalation, in contact
with skin and if swallowed.
             Safety Phrases:
S 7
S 16
                                       Keep container tightly closed.
6 Keep away from sources of ignition - No
                                 smoking.
S 36/37 Wear suitable protective clothing and
                                 gloves.
                                 S 45 In case of accident or if you feel unwell, seek
                                 medical advice immediately (show the label where
                                 possible).
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ACCT:
                                                                                                                         888235001
       INDEX: A51748343 CAT NO: A962P4
                                                                                                                                                        PO NER: MARY P/VC/6/23/05
                        CAS# 64-17-5: 0
                        CAS# 67-56-1: 1
CAS# 67-63-0: 1
 United Kingdom Occupational Exposure Limits
                        CAS# 64-17-5; OES-United Kingdom, TWA 1000 ppm TWA; 1920 mg/m3 TWA CAS# 67-56-1: OES-United Kingdom, TWA 200 ppm TWA; 266 mg/m3 TWA
                         CAS# 67-56-1: OES-United Kingdom, STEL 250 ppm STEL; 333 mg/m3 STEL
                        CAS# 67-63-0: OES-United Kingdom, TWA 400 ppm TWA; 999 mg/m3 TWA CAS# 67-63-0: OES-United Kingdom, STEL 500 ppm STEL; 1250 mg/m3 STEL
United Kingdom Maximum Exposure Limits
Canada
                        CAS# 64-17-5 is listed on Canada's DSL List.
                        CAS# 67-56-1 is listed on Canada's DSL List.
CAS# 67-63-0 is listed on Canada's DSL List.
                         This product has a WHMIS classification of B2, D1B.
                        CAS# 64-17-5 is listed on Canada's Ingredient Disclosure List. CAS# 67-56-1 is listed on Canada's Ingredient Disclosure List.
                        CAS# 67-63-0 is listed on Canada's Ingredient Disclosure List.
CAS# 6/-03-0 IS IISEE ON CAMERIA S INJECTION DESCRIPTION OF THE STREET ON CAMERIA S INJECTION OF THE STREET ON CAMERIA S I
                        OEL-FRANCE:TWA 1000 ppm (1900 mg/m3);STEL 5000 pp
OEL-GERMANY:TWA 1000 ppm (1900 mg/m3)
OEL-HUNGARY:TWA 1000 mg/m3;STEL 3000 mg/m3
                         OEL-THE NETHERLANDS: TWA 1000 ppm (1900 mg/m3)
                         OEL-THE PHILIPPINES: TWA 1000 ppm (1900 mg/m3)
                         OEL-POLAND: TWA 1000 mg/m3
                      OEL-POLAND:TWA 1000 mg/m3
OEL-SWEDEN:TWA 1000 ppm (1900 mg/m3)
OEL-SWEDEN:TWA 1000 ppm (1900 mg/m3)
OEL-SWITZERLAND:TWA 1000 ppm (1900 mg/m3)
OEL-THAILAND:TWA 1000 ppm (1900 mg/m3)
OEL-THAILAND:TWA 1000 ppm (1900 mg/m3)
OEL-UNITED KINGDOM:TWA 1000 ppm (1900 mg/m3)
OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA Check ACGIH TLV
OEL IN NEW ZEALAND, SINGAPORE, VIETNAM Check ACGI TLV
OEL IN NEW ZEALAND, SINGAPORE, VIETNAM Check ACGI TLV
OEL ST. OEL-ARAB Republic of Egypt:TWA 200 ppm (260 mg/m3);Skin
CAS# 67-56-1: OEL-ARAB Republic of Egypt:TWA 200 ppm (260 mg/m3);Skin
                        mar/m31
                         OEL-BELGIUM: TWA 400 ppm (985 mg/m3); STEL 500 ppm (1230 mg/m3)
                        OEL-DENMARK:TWA 200 ppm (490 mg/m3);Skin
OEL-FRANCE:STEL 400 ppm (980 mg/m3)
OEL-GERMANY:TWA 400 ppm (980 mg/m3)
                        OEL-JAPAN:STEL 400 ppm (980 mg/m3)
OEL-THE NETHERLANDS:TWA 400 ppm (980 mg/m3);Skin
OEL-THE PHILLIPPINES:TWA 400 ppm (980 mg/m3)
                        OEL-RUSSIA:STEL 400 ppm (10 mg/m3);
OEL-SWEDEN:TWA 150 ppm (350 mg/m3);STEL 250 ppm (600 mg/m3)
OEL-SWITZERLAND:TWA 400 ppm (980 mg/m3);STEL 800 ppm
                        OEL-TURKEY:TWA 200 ppm (500 mg/m3); STEL 500 ppm; Skin OEL-UNITED KINGDOM:TWA 400 ppm (980 mg/m3); STEL 500 ppm; Skin OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA Check ACGIH TLV OEL IN NEW ZEALAND, SINGAPORE, VIETNAM Check ACGI TLV
                                                     **** SECTION 16 - ADDITIONAL INFORMATION ****
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MSDS Creation Date: 6/19/1998 Revision #6 Date: 12/03/2002

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.

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