Turpentine Oil
24580

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

MSDS Name: Turpentine Oil
Catalog Numbers:
S80236
Synonyms:
Spirit of Turpentine; oil of turpentine; wood turpentine
Company Identification: Fisher Scientific
1 Reagent Lane
Fairlawn, NJ 07410
For information, call: 201-796-7100
Emergency Number: 201-796-7100
For CHEMTREC assistance, call: 800-424-9300
For International CHEMTREC assistance, call: 703-527-3887

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

CAS#	Chemical Name	%	EINECS#
8006-64-2	Turpentine	100.0	232-350-7

Hazard Symbols: XN F N
Risk Phrases: 10 20/21/22 36/38 43 51/53 65

**** SECTION 3 - HAZARDS IDENTIFICATION ****

EMERGENCY OVERVIEW
Appearance: colourless. Flash Point: 95 deg F.
Warning! May cause skin irritation. May cause allergic skin reaction. Flammable liquid. May cause central nervous system depression. Aspiration hazard. May cause kidney damage. May cause severe eye irritation and possible injury. Causes digestive and respiratory tract irritation. Harmful or fatal if swallowed.
Target Organs: None.

Potential Health Effects

Eye:

Contact with eyes may cause severe irritation, and possible eye burns.

Skin:

Causes skin irritation. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material.

Ingestion:

Causes gastrointestinal irritation with nausea, vomiting and diarrhea. May cause kidney damage. 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. Aspiration of material into the lungs may cause chemical pneumonitis, which may be fatal.

Inhalation:

May cause respiratory tract irritation. Aspiration may cause respiratory swelling and pneumonitis.

Chronic:
Not available.

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

Eyes:
Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.
Skin:
Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.
Ingestion:
Do NOT induce vomiting. Get medical aid immediately.
Inhalation:
Get medical aid immediately. Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
Notes to Physician:
Treat

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

General Information:
As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Flammable Liquid. Can release vapors that form explosive mixtures at temperatures above the flashpoint.
Extinguishing Media:
In case of fire, use water fog, dry chemical, carbon dioxide, or regular foam.

**** 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., dry sand or earth), then place into a chemical waste container. Use a spark-proof tool.

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

Handling:
Wash thoroughly after handling. Wash hands before eating. 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 skin and eyes. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Avoid ingestion and inhalation. 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 sources of ignition. Store in a cool place in the original container and protect from sunlight. Store in a tightly closed container.

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

Engineering Controls:
Use adequate general or local explosion-proof ventilation to keep airborne levels to acceptable levels.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA-FinalPELs
Turpentine	100 ppm	100 ppm TWA; 560 mg/m3 TWA 800 ppm IDLH	100ppm TWA;560 mg/m3 TWA

OSHA Vacated PELs:
Turpentine:
100 ppm TWA; 560 mg/m3 TWA

Personal Protective Equipment

Eyes:
Wear chemical goggles.
Skin:
Wear appropriate gloves to prevent skin exposure.
Clothing:
Wear appropriate gloves to prevent skin exposure.
Respirators:
Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

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

Physical State:	Liquid
Appearance:	colourless
Odor:	disagreeable odor
pH:	Not available.
Vapor Pressure:	577 mm Hg
Vapor Density:	4.7
Evaporation Rate:	0.86 (Butyl Acetate=1)
Viscosity:	Not available.
Boiling Point:	309-338 F (154-170 C)
Freezing/Melting Point:	-58 - -76 F (-50 - -60 C)
Autoignition Temperature:	488 deg F (253.33 deg C)
Flash Point:	95 deg F (35.00 deg C)
NFPA Rating:	health-1; flammability-3; reactivity-0
Explosion Limits, Lower:	0.8% v/v
Upper:	None reported
Decomposition Temperature:	Not available.
Solubility:	Insoluble in water
Specific Gravity/Density:	0.86 at 59 F
Molecular Formula:	C10H16
Molecular Weight:	136.112

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

Chemical Stability:
Stable under normal temperatures and pressures.
Conditions to Avoid:
Ignition sources, exposure to air, excess heat.
Incompatibilities with Other Materials:
Calcium hypochlorite, chlorine, chromic anhydride, chromyl chloride, hexachloromelamine, stannic chloride, and trichloromelamine.
Hazardous Decomposition Products:
Carbon monoxide.
Hazardous Polymerization: Has not been reported.

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

RTECS#:
CAS# 8006-64-2: YO8400000
LD50/LC50:
CAS# 8006-64-2: Inhalation, mouse: LC50 =29 mg/m3/2H; Inhalation, rat: LC50 =12 gm/m3/6H; Oral, rat: LD50 = 5760 mg/kg.
Carcinogenicity:
Turpentine -
Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

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

Other
No information available.

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

Chemical waste generators must determine whether a discarded chemical is class if as a hazardous waste.US EPA guidelines for the classification determination are listed in 40 CFR Part Additionally, waste generators must consult state and local hazardous waste regu ensure complete and accurate classification.
RCRA P-Series: None listed.
RCRA U-Series: None listed.

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

US DOT
Shipping Name: TURPENTINE
Hazard Class: 3
UN Number: UN1299
Packing Group: III
Canadian TDG
No information available.

**** SECTION 15 - REGULATORY INFORMATION ****

US FEDERAL
TSCA
CAS# 8006-64-2 is listed on the TSCA inventory.
Health & Safety Reporting List
None of the chemicals are on the Health & Safety Reporting List.
Chemical Test Rules
None of the chemicals in this product are under a Chemical Test

Rule.

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.

SARA

Section 302 (RQ)

None of the chemicals in this material have an RQ.

Section 302 (TPQ)

None of the chemicals in this product have a TPQ.

Section 313

No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants.
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 CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

Turpentine can be found on the following state right to know lists: California, New Jersey, Florida, Minnesota, Massachusetts.

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 N

Risk Phrases:

R 10 Flammable.
R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R 36/38 Irritating to eyes and skin.
R 43 May cause sensitization by skin contact.
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.

Safety Phrases:

S 36/37 Wear suitable protective clothing and gloves.
S 46 If swallowed, seek medical advice immediately and show this container or label.
S 61 Avoid release to the environment. Refer to special instructions/Safety data sheets.
S 62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

WGK (Water Danger/Protection)

CAS# 8006-64-2: No information available.

United Kingdom Occupational Exposure Limits

CAS# 8006-64-2: OES-United Kingdom, TWA 100 ppm TWA; 566 mg/m3 TWA

CAS# 8006-64-2: OES-United Kingdom, STEL 150 ppm STEL; 850 mg/m3 STEL

Canada

CAS# 8006-64-2 is listed on Canada's DSL/NDSL List.
This product has a WHMIS classification of B2, D2B.
CAS# 8006-64-2 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

CAS# 8006-64-2: OEL-AUSTRALIA:TWA 100 ppm (560 mg/m3)
OEL-BELGIUM:TWA 100 ppm (556 mg/m3)
OEL-DENMARK:TWA 100 ppm (560 mg/m3)
OEL-FINLAND:TWA 100 ppm (560 mg/m3);STEL 150 ppm;Skin
OEL-FRANCE:TWA 100 ppm (560 mg/m3)
OEL-GERMANY:TWA 100 ppm (560 mg/m3)
OEL-HUNGARY:TWA 300 mg/m3;STEL 600 mg/m3
OEL-THE NETHERLANDS:TWA 100 ppm (560 mg/m3)
OEL-THE PHILIPPINES:TWA 100 ppm (560 mg/m3)
OEL-POLAND:TWA 300 mg/m3
OEL-RUSSIA:STEL 300 mg/m3
OEL-SWEDEN:TWA 80 ppm (450 mg/m3);STEL 150 ppm (800 mg/m3);Skin
OEL-SWITZERLAND:TWA 100 ppm (560 mg/m3);STEL 200 ppm
OEL-TURKEY:TWA 100 ppm (560 mg/m3)
OEL-UNITED KINGDOM:TWA 100 ppm (560 mg/m3);STEL 150 ppm
OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA check ACGIH TLV
OEL IN NEW ZEALAND, SINGAPORE, VIETNAM check ACGI TLV

**** SECTION 16 - ADDITIONAL INFORMATION ****

MSDS Creation Date: 12/12/1997 Revision #3 Date: 8/02/2000

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.
