

Material Safety Data Sheet

Epoxy Top Material- all Standard and Custom Colors

Section 1 - Chemical Product and Company Identification

MSDS Name:

Epoxy Top Material- all Standard and Custom Colors

Catalog Numbers:**Synonyms:**

Colors: Black, Super White, Regular White, Gray, Platinum, Blue, Hunter Green, Blush, Beige, Yellow, Red, Antique White, Sand, Dark Khaki, Pearl, Sandstone.

Company Identification:Epoxy Products LLC
500 East 16th Street
Mountain Home, AR 72653**Company Phone Number:**

800-424-5254

Emergency Phone Number:

870-425-4321

CHEMTREC Phone Number, US:

(800) 424-9300

CHEMTREC Phone Number, Europe:

(202) 483-7616

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	Percent	EINECS/ ELINCS
Not available	Polymerized Epoxy Top Material	100	Not available.

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: No information found.

Caution! May cause allergic skin reaction. Cutting or grinding this material may generate dust possibly containing crystalline silica. Chronic inhalation of crystalline silica may lead to fibrotic lung disease, silicosis or cancer. Dust may contain phthalic anhydride, which may cause irritation, respiratory and skin sensitization.

Target Organs: lungs, skin.

Potential Health Effects**Eye:**

Dust may cause mechanical irritation. Dusts may cause persistent eye irritation and conjunctivitis.

Material Safety Data Sheet

Epoxy Top Material- all Standard and Custom Colors

Skin:

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

Ingestion:

Ingestion of large amounts may cause gastrointestinal irritation.

Inhalation:

Dust is irritating to the respiratory tract. May cause allergic respiratory reaction.

Chronic:

Prolonged exposure to respirable crystalline quartz may cause delayed lung injury/fibrosis (silicosis). Cutting or grinding of the top material may generate dust which may contain crystalline silica.

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:

Get medical aid if irritation develops or persists. Flush skin with plenty of soap and water.

Ingestion:

If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation:

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:

None

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.

Extinguishing Media:

In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.

Autoignition Temperature:

Not available.

Explosion Limits:

Lower: Not available. Upper: Not available.

Flash Point:

Not available.

NFPA Rating:

(estimated) Health: 1; Flammability: 0; Instability: 0

Material Safety Data Sheet

Epoxy Top Material- all Standard and Custom Colors

Section 6 - Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Reduce airborne dust and prevent scattering by moistening with water. Avoid generating dusty conditions. Carefully scoop up and place into appropriate disposal container.

Section 7 - Handling and Storage

Handling:

Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Storage:

Store in a dry area.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits

Chemical Name:	ACGIH	NIOSH	OSHA
Polymerized Epoxy Top Material	None listed.	None listed.	None listed.
Phthalic anhydride	1 ppm TWA	1 ppm TWA; 6 mg/m ³ TWA 60 mg/m ³ IDLH	2 ppm TWA; 12 mg/m ³ TWA ;
Silica	0.05 mg/m ³ TWA (respirable fraction)	0.05 mg/m ³ TWA (respirable dust) 50 mg/m ³ IDLH (respirable dust)	None listed.
Carbon black	3.5 mg/m ³ TWA	3.5 mg/m ³ TWA; 0.1 mg/m ³ TWA (as PAH, carbon black in presence of polycyclic aromatic hydrocarbons) 1750 mg/m ³ IDLH	3.5 mg/m ³ TWA ;
Titanium dioxide	10 mg/m ³ TWA	5000 mg/m ³ IDLH	15 mg/m ³ TWA (total dust) ;
Iron oxide	5 mg/m ³ TWA (dust and fume, as Fe)	5 mg/m ³ TWA (dust and fume, as Fe) 2500 mg/m ³ IDLH (dust and fume, as Fe)	10 mg/m ³ TWA ;
Phthalocyanine blue	0.2 mg/m ³ TWA (fume); 1 mg/m ³ TWA (dusts and mists, as Cu) (listed under Copper)	1 mg/m ³ TWA (dust and mist) (listed under Copper) 100 mg/m ³ IDLH (dust, mist and fume) (listed under Copper)	0.1 mg/m ³ TWA (fume); 1 mg/m ³ TWA (dusts and mists) (listed under Copper);
Phthalocyanine green	None listed.	None listed.	None listed.

Material Safety Data Sheet

Epoxy Top Material- all Standard and Custom Colors

OSHA Vacated PELs

Phthalic anhydride: 1 ppm TWA; 6 mg/m³ TWA
Silica: 0.1 mg/m³ TWA (respirable dust)
Carbon black: 3.5 mg/m³ TWA
Titanium dioxide: 10 mg/m³ TWA (total dust)
Iron oxide: 10 mg/m³ TWA (fume)
Phthalocyanine blue 0.1 mg/m³ TWA (fume, dusts, mists as Cu) (listed under Copper)

Personal Protective Equipment

Eyes:

Wear dust-proof goggles.

Skin:

Wear appropriate gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to minimize contact with skin.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 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: Solid

Color: No information found.

Odor: No information found.

pH: No information found.

Vapor Pressure: No information found.

Vapor Density: No information found.

Evaporation Rate: No information found.

Viscosity: No information found.

Boiling Point: No information found.

Freezing/Melting Point: No information found.

Decomposition Temperature: No information found.

Solubility in water: No information found.

Specific Gravity/Density: No information found.

Molecular Formula: No information found.

Molecular Weight: No information found.

Section 10 - Stability and Reactivity

Chemical Stability:

Stable.

Conditions to Avoid:

Dust generation.

Incompatibilities with Other Materials

Top material is a highly chemically resistant material.

Material Safety Data Sheet

Epoxy Top Material- all Standard and Custom Colors

Hazardous Decomposition Products

None.

Hazardous Polymerization

Will not occur.

Section 11 - Toxicological Information

RTECS:

CAS# 85-44-9: TI3150000.
CAS# 14808-60-7: VV7330000.
CAS# 1333-86-4: FF5800000.
CAS# 13463-67-7: XR2275000.
CAS# 1309-37-1: NO7400000; NO7420000; NO7480000.
CAS# 147-14-8: GL8510000.
CAS# 1328-53-6: GE4300000.

LD50/LC50:

CAS# 85-44-9:
Draize test, rabbit, eye: 50 mg/24H Moderate
Draize test, rabbit, skin: 500 mg/24H Mild
Inhalation, rat: LC50 = >210 mg/m³/1H
Oral, mouse: LD50 = 1500 mg/kg
Oral, rat: LD50 = 1530 mg/kg
Skin, rabbit: LD50 = >10 gm/kg.
CAS# 14808-60-7:
No information found.
CAS# 1333-86-4:
Oral, rat: LD50 = >15400 mg/kg
Skin, rabbit: LD50 = >3 gm/kg.
CAS# 13463-67-7:
No information found.
CAS# 1309-37-1:
No information found.
CAS# 147-14-8:
No information found.
CAS# 1328-53-6:
No information found.

Carcinogenicity:

CAS# 85-44-9: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.
CAS# 14808-60-7
ACGIH: A2 - Suspected Human Carcinogen
California: carcinogen, initial date 10/1/88 (airborne particles of respirable size) (listed as 'Silica, crystalline (general form)').
NIOSH: potential occupational carcinogen
NTP: Known Carcinogen (listed as 'Silica, crystalline (general form)').
OSHA: Select carcinogen
IARC: Group 1 carcinogen
CAS# 1333-86-4
ACGIH: Not listed.
California: carcinogen, initial date 2/21/03 (airborne, unbound particles of respirable size
NIOSH: potential occupational carcinogen (in presence of polycyclic aromatic hydrocarbo

Material Safety Data Sheet

Epoxy Top Material- all Standard and Custom Colors

NTP: Not listed.
OSHA: Possible Select carcinogen
IARC: Group 2B carcinogen
CAS# 13463-67-7
ACGIH: Not listed.
California: Not listed.
NIOSH: potential occupational carcinogen
NTP: Not listed.
OSHA: Not listed.
IARC: Not listed.
CAS# 1309-37-1: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.
CAS# 147-14-8: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.
CAS# 1328-53-6: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

Epidemiology:**Teratogenicity:****Reproductive:****Mutagenicity**

Mutation data has been reported for Carbon black.

Neurotoxicity**Other:**

See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Ecotoxicity:

No information reported.

Environmental:

No information reported.

Physical:

No information reported.

Other:

None

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 40CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P Series Wastes

None of the components are on this list.

RCRA U Series Wastes

CAS# 85-44-9: waste number U190.

Material Safety Data Sheet

Epoxy Top Material- all Standard and Custom Colors

Section 14 - Transport Information

US DOT

Canadian TDG

Proper Shipping Name: Not regulated as a hazardous material

No information found.

Hazard Class:

3(8)

UN Number:

UN2353

Packing Group:

II

Section 15 - Regulatory Information

US Federal

TSCA

CAS# 85-44-9 is listed on the TSCA Inventory.
CAS# 14808-60-7 is listed on the TSCA Inventory.
CAS# 1333-86-4 is listed on the TSCA Inventory.
CAS# 13463-67-7 is listed on the TSCA Inventory.
CAS# 1309-37-1 is listed on the TSCA Inventory.
CAS# 147-14-8 is listed on the TSCA Inventory.
CAS# 1328-53-6 is listed on the TSCA Inventory.

Health and Safety Reporting List

None of the components are on this list.

Chemical Test Rules

None of the components are on this list.

TSCA Section 12b

None of the components are on this list.

TSCA Significant New Use Rule (SNUR)

None of the components are on this list.

CERCLA Hazardous Substances and corresponding RQs

CAS# 85-44-9: 5000 lb final RQ; 2270 kg final RQ
CAS# 147-14-8 (listed as Copper): 5000 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is equal to or exceeds 0.004 inches); 2270 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of

SARA Section 302 Extremely Hazardous Substances

None of the components are on this list.

SARA Hazard Categories

CAS# 85-44-9: acute, chronic, reactive.
CAS# 14808-60-7: chronic.
CAS# 1333-86-4: fire.
CAS# 1309-37-1: chronic.

Material Safety Data Sheet

Epoxy Top Material- all Standard and Custom Colors

SARA Section 313

This material contains Phthalic anhydride (CAS# 85-44-9, -%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 372.

This material contains Copper (CAS# 147-14-8, -%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 372.

Clean Air Act - Hazardous Air Pollutants (HAPs)

CAS# 85-44-9 is listed as a hazardous air pollutant (HAP).

Clean Air Act - Class 1 Ozone Depletors

None of the components are on this list.

Clean Air Act - Class 2 Ozone Depletors

None of the components are on this list.

Clean Water Act - Hazardous Substances

None of the components are on this list.

Clean Water Act - Priority Pollutants

CAS# 147-14-8 is listed as a Priority Pollutant under the CWA.

Clean Water Act - Toxic Pollutants

CAS# 147-14-8 is listed as a Toxic Pollutant under the CWA.

CAS# 147-14-8 is listed as a Toxic Pollutant under the CWA.

OSHA - Highly Hazardous

None of the components are on this list.

OSHA - Specifically Regulated Chemicals

None of the components are on this list.

US State

State Right to Know

Phthalic anhydride can be found on the following state Right-to-Know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

Silica can be found on the following state Right-to-Know lists: New Jersey, Pennsylvania, Minnesota, Massachusetts.

Carbon black can be found on the following state Right-to-Know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

Titanium dioxide can be found on the following state Right-to-Know lists: New Jersey, Pennsylvania, Minnesota, Massachusetts.

Iron oxide can be found on the following state Right-to-Know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

Phthalocyanine blue can be found on the following state Right-to-Know lists: California, (listed as Copper), California, (listed as Copper compounds, n.o.s.), New Jersey, (listed as Copper), Pennsylvania, (listed as Copper), Pennsylvania, (listed as Copper compounds, n.o.s.), Minnesota, (listed as Copper), Massachusetts, (listed as Copper).

California Prop 65

CAS# Not available No information found.

CAS# 85-44-9 No information found.

WARNING: This product contains Silica (listed as Silica, crystalline (general form)), a chemical known to the State of California to cause cancer.

WARNING: This product contains Carbon black, a chemical known to the State of California to cause cancer.

CAS# 13463-67-7 No information found.

CAS# 1309-37-1 No information found.

CAS# 147-14-8 No information found.

CAS# 1328-53-6 No information found.

Material Safety Data Sheet

Epoxy Top Material- all Standard and Custom Colors

California No Significant Risk Level

CAS# Not available No information found.
CAS# 85-44-9 No information found.
CAS# 14808-60-7 No information found.
CAS# 1333-86-4 No information found.
CAS# 13463-67-7 No information found.
CAS# 1309-37-1 No information found.
CAS# 147-14-8 No information found.
CAS# 1328-53-6 No information found.

European/International Regulations

European Labelling in Accordance with EC Directives:

Hazard Symbols:
Risk Phrases:
Safety Phrases: S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

No information found.

United Kingdom Occupational Exposure Limits

CAS# 1333-86-4: OES-United Kingdom, STEL 7 mg/m³ STEL
CAS# 13463-67-7: OES-United Kingdom, TWA 10 mg/m³ TWA (total inhalable dust); 4 mg/m³ TWA (respirable dust)
CAS# 1309-37-1: OES-United Kingdom, STEL 10 mg/m³ STEL (fume, as Fe)
CAS# 147-14-8: OES-United Kingdom, STEL (listed as copper): 2 mg/m³ STEL (dusts and mists)

United Kingdom Maximum Exposure Limits

CAS# 85-44-9: MEL-United Kingdom, STEL 12 mg/m³ STEL
CAS# 14808-60-7: MEL-United Kingdom, TWA 0.3 mg/m³ TWA (respirable)

Canadian DSL/NDSL

CAS# 85-44-9 is listed on Canada's DSL List.
CAS# 14808-60-7 is listed on Canada's DSL List.
CAS# 1333-86-4 is listed on Canada's DSL List.
CAS# 13463-67-7 is listed on Canada's DSL List.
CAS# 1309-37-1 is listed on Canada's DSL List.
CAS# 147-14-8 is listed on Canada's DSL List.
CAS# 1328-53-6 is listed on Canada's DSL List.

Canadian WHMIS Classifications

This product does not have a WHMIS classification.

Canadian Ingredient Disclosure List

CAS# 85-44-9 is listed on the Canadian Ingredient Disclosure List.
CAS# 14808-60-7 is listed on the Canadian Ingredient Disclosure List.
CAS# 1333-86-4 is listed on the Canadian Ingredient Disclosure List.
CAS# 1309-37-1 is listed on the Canadian Ingredient Disclosure List.
CAS# 147-14-8 (listed as Copper) is listed on the Canadian Ingredient Disclosure List.

Material Safety Data Sheet

Epoxy Top Material- all Standard and Custom Colors

Exposure Limits

CAS# 85-44-9: OEL-AUSTRALIA:TWA 1 ppm (6 mg/m3)
OEL-BELGIUM:TWA 1 ppm (6.1 mg/m3)
OEL-CZECHOSLOVAKIA:TWA 5 mg/m3;STEL 15 mg/m3 JAN9
OEL-DENMARK:TWA 5 mg/m3
OEL-FINLAND:TWA 2 mg/m3;STEL 3 mg/m3;Skin
OEL-FRANCE:STEL 6 mg/m3
OEL-GERMANY:TWA 5 mg/m3
OEL-HUNGARY:TWA 1 mg/m3;STEL 2 mg/m3
OEL-THE NETHERLANDS:TWA 1 ppm (6 mg/m3)
OEL-THE PHILIPPINES:TWA 2 ppm (12 mg/m3)
OEL-POLAND:TWA 1 mg/m3
OEL-RUSSIA:STEL 1 mg/m3;Skin
OEL-SWEDEN:TWA 1 ppm (6 mg/m3);STEL 2 ppm (12 mg/m3)
OEL-SWITZERLAND:TWA 0.8 ppm (5 mg/m3);STEL 1.6 pp (10 mg/m3)
OEL-UNITED KINGDOM:TWA 1 ppm (6 mg/m3);STEL 4 ppm (24 mg/m3)
OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA check ACGIH TLV
OEL IN NEW ZEALAND, SINGAPORE, VIETNAM check ACGI TLV
CAS# 14808-60-7: OEL-BELGIUM:TWA 0.1 mg/m3
OEL-DENMARK:TWA 0.1 mg/m3
OEL-FINLAND:TWA 0.2 mg/m3
OEL-GERMANY:TWA 0.15 mg/m3
OEL-RUSSIA:STEL 14 mg/m3
OEL-SWEDEN:TWA 0.1 mg/m3
OEL-SWITZERLAND:TWA 0.15 mg/m3
OEL-THAILAND:TWA 10 mg/m3 (resp. dust)
OEL-THAILAND:TWA 30 mg/m3 (total dust)
OEL-UNITED KINGDOM:TWA 0.1 mg/m3 (resp. dust)
OEL-UNITED KINGDOM:TWA 0.3 mg/m3 (total dust)
OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA check ACGIH TLV
OEL IN NEW ZEALAND, SINGAPORE, VIETNAM check ACGI TLV
CAS# 1333-86-4: OEL-AUSTRALIA:TWA 3 mg/m3
OEL-BELGIUM:TWA 3.5 mg/m3
OEL-DENMARK:TWA 3.5 mg/m3
OEL-FINLAND:TWA 3.5 mg/m3;STEL 7 mg/m3
OEL-FRANCE:TWA 3.5 mg/m3
OEL-THE NETHERLANDS:TWA 3.5 mg/m3
OEL-THE PHILIPPINES:TWA 3.5 mg/m3
OEL-RUSSIA:STEL 4 mg/m3
OEL-SWEDEN:TWA 3 mg/m3
OEL-UNITED KINGDOM:TWA 3.5 mg/m3;STEL 7 mg/m3
OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA check ACGIH TLV
OEL IN NEW ZEALAND, SINGAPORE, VIETNAM check ACGI TLV
OES-United Kingdom: TWA 3.5 mg/m3 TWA
OES-United Kingdom: STEL 7 mg/m3 STEL

Material Safety Data Sheet

Epoxy Top Material- all Standard and Custom Colors

CAS# 13463-67-7: OEL-ARAB Republic of Egypt:TWA 15 mg/m³
OEL-AUSTRALIA:TWA 10 mg/m³
OEL-BELGIUM:TWA 10 mg/m³
OEL-DENMARK:TWA 6 mg/m³
OEL-FRANCE:TWA 10 mg/m³
OEL-GERMANY:TWA 6 mg/m³
OEL-THE PHILIPPINES:TWA 15 mg/m³
OEL-SWITZERLAND:TWA 6 mg/m³
OEL-TURKEY:TWA 15 mg/m³
OEL-UNITED KINGDOM:TWA 10 mg/m³ (total dust) JAN9
OEL-UNITED KINGDOM:TWA 5 mg/m³ (resp. dust)
OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA check ACGIH TLV
OEL IN NEW ZEALAND, SINGAPORE, VIETNAM check ACGI TLV
OES-United Kingdom: TWA 10 mg/m³ TWA (total inhalable dust); 4 mg/m³ TWA (respirable dust)
CAS# 1309-37-1: OEL-ARAB Republic of Egypt:TWA 3 ppm (5 mg/m³) (fume)
OEL-AUSTRALIA:TWA 5 mg/m³ (fume)
OEL-BELGIUM:TWA 2 ppm (5 mg/m³) (fume)
OEL-DENMARK:TWA 3.5 mg/m³ (fume)
OEL-FINLAND:TWA 5 ppm (fume)
OEL-FRANCE:TWA 5 mg/m³ (fume)
OEL-GERMANY:TWA 6 mg/m³ (fume)
OEL-THE NETHERLANDS:TWA 10 mg/m³
OEL-THE NETHERLANDS:TWA 5 mg/m³ (fume)
OEL-THE PHILIPPINES:TWA 10 mg/m³ (fume)
OEL-POLAND:TWA 5 mg/m³ (fume)
OEL-SWEDEN:TWA 3.5 mg/m³ (fume)
OEL-SWITZERLAND:TWA 2 ppm (5 mg/m³) (fume)
OEL-THAILAND:TWA 10 mg/m³ (fume)
OEL-TURKEY:TWA 10 mg/m³ (fume)
OEL-UNITED KINGDOM:TWA 10 mg/m³ (total dust) JAN9
OEL-UNITED KINGDOM:TWA 5 mg/m³ (resp. dust)
OEL-UNITED KINGDOM:TWA 5 mg/m³;STEL 10 mg/m³ (fume)
OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA check ACGIH TLV
OEL IN NEW ZEALAND, SINGAPORE, VIETNAM check ACGI TLV
OES-United Kingdom: TWA 5 mg/m³ TWA (fume, as Fe)
OES-United Kingdom: STEL 10 mg/m³ STEL (fume, as Fe)

Material Safety Data Sheet

Epoxy Top Material- all Standard and Custom Colors

CAS# 147-14-8 (listed as Copper): OEL-ARAB Republic of Egypt:TWA 0.1 mg/m3 (fume)
OEL-AUSTRALIA:TWA 0.2 mg/m3 (fume)
OEL-AUSTRALIA:TWA 1 mg/m3 (dust)
OEL-BELGIUM:TWA 0.2 mg/m3 (fume)
OEL-BELGIUM:TWA 1 mg/m3 (dust)
OEL-DENMARK:TWA 0.1 mg/m3 (fume)
OEL-DENMARK:TWA 1 mg/m3 (dust)
OEL-FINLAND:TWA 0.2 mg/m3 (fume)
OEL-FINLAND:TWA 1 mg/m3
OEL-FINLAND:TWA 1 mg/m3 (dust)
OEL-FRANCE:TWA 0.2 mg/m3 (fume)
OEL-FRANCE:TWA 1 mg/m3;STEL 2 mg/m3 (dust)
OEL-GERMANY:TWA 0.1 mg/m3 (fume)
OEL-GERMANY:TWA 1 mg/m3
OEL-GERMANY:TWA 1 mg/m3 (dust)
OEL-HUNGARY:TWA 0.2 mg/m3;STEL 0.4 mg/m3 (dust)
OEL-INDIA:TWA 0.2 mg/m3 (fume)
OEL-THE NETHERLANDS:TWA 0.2 mg/m3 (fume)
OEL-THE NETHERLANDS:TWA 1 mg/m3 (dust)
OEL-THE PHILIPPINES:TWA 1.0 mg/m3 (fume)
OEL-POLAND:TWA 0.1 mg/m3 (fume)
OEL-RUSSIA:STEL 0.5 ppm (1 mg/m3) (dust)
OEL-SWEDEN:TWA 0.2 mg/m3 (resp. dust)
OEL-SWEDEN:TWA 0.2 mg/m3 (fume)
OEL-SWEDEN:TWA 1 mg/m3 (total dust)
OEL-SWITZERLAND:TWA 0.1 mg/m3;STEL 0.2 mg/m3 (fume)
OEL-SWITZERLAND:TWA 1 mg/m3;STEL 1 mg/m3
OEL-THAILAND:TWA 0.1 mg/m3 (fume)
OEL-THAILAND:TWA 1 mg/m3
OEL-UNITED KINGDOM:TWA 0.2 mg/m3 (fume)
OEL-UNITED KINGDOM:TWA 1 mg/m3
OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA check ACGIH TLV
OEL IN NEW ZEAL
OES-United Kingdom: TWA (listed as Copper): 0.2 ppm TWA (fume, as Cu); 1 mg/m3 TWA (dusts and mists, as No information found.

Section 16 - Other Information

Inhalation information has been
MSDS Creation Date: February 11, 1998
Revision Date: April 7, 2004

This MSDS is intended for review and guidance in the receipt, storage, handling, use and disposal of product purchased from Fisher Scientific, and for no other purpose. Use this product only as directed and in accordance with applicable instructions and warnings provided with the product. Please consult your institution's policies regarding use of this product. If you have obtained this MSDS other than in connection with the supply of this product from Fisher Scientific, this MSDS should be consulted for general information only, and should not be relied upon for any purpose. As with the use of all hazardous materials, you should in all instances follow the guidance of the MSDS provided or available with the specific product purchased.