



Safety Data Sheet

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SECTION 1: Identification

1.1. Product identifier

3M(TM) Scotchlite(TM) Transparent Screen Printing Ink 2907 Toner

Product Identification Numbers

75-0300-8712-8, 75-0300-8803-5
7000055521, 7000055531

1.2. Recommended use and restrictions on use

Recommended use

Screen Printing Toner

1.3. Supplier's details

| | |
|----------------------|---|
| MANUFACTURER: | 3M |
| DIVISION: | Commercial Solutions Division |
| ADDRESS: | 3M Center, St. Paul, MN 55144-1000, USA |
| Telephone: | 1-888-3M HELPS (1-888-364-3577) |

1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

SECTION 2: Hazard identification

2.1. Hazard classification

Flammable Liquid: Category 3.
Serious Eye Damage/Irritation: Category 1.
Skin Corrosion/Irritation: Category 2.
Skin Sensitizer: Category 1A.
Reproductive Toxicity: Category 1B.
Carcinogenicity: Category 2.
Specific Target Organ Toxicity (single exposure): Category 3.

2.2. Label elements

Signal word

Danger

Symbols

Flame | Corrosion | Exclamation mark | Health Hazard |

Pictograms**Hazard Statements**

Flammable liquid and vapor.

Causes serious eye damage.

Causes skin irritation.

May cause an allergic skin reaction.

May cause drowsiness or dizziness.

May damage fertility or the unborn child.

Suspected of causing cancer.

Precautionary Statements**Prevention:**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Ground/bond container and receiving equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Keep container tightly closed.

Use explosion-proof electrical/ventilating/lighting equipment.

Avoid breathing dust/fume/gas/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

Wear protective gloves and eye/face protection.

Wash thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace.

Response:

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Immediately call a POISON CENTER or doctor/physician.

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

Storage:

Keep container tightly closed.

Keep cool.

Store locked up in a well-ventilated place.

Disposal:

Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

9% of the mixture consists of ingredients of unknown acute oral toxicity.

9% of the mixture consists of ingredients of unknown acute dermal toxicity.
17% of the mixture consists of ingredients of unknown acute inhalation toxicity.

SECTION 3: Composition/information on ingredients

| Ingredient | C.A.S. No. | % by Wt |
|---|---------------|------------------------|
| Cyclohexanone | 108-94-1 | 30 - 40 Trade Secret * |
| ETHYL 3-ETHOXYPROPIONATE | 763-69-9 | 10 - 20 Trade Secret * |
| VINYL ACETATE-VINYL ALCOHOL-VINYL CHLORIDE POLYMER | 25086-48-0 | 10 - 20 Trade Secret * |
| 1-methoxy-2-propyl acetate | 108-65-6 | 5 - 10 Trade Secret * |
| ACRYLIC POLYMER | None | 5 - 10 Trade Secret * |
| Polymeric Plasticizer | Trade Secret* | 5 - 10 Trade Secret * |
| EPOXIDIZED SOYBEAN OIL | 8013-07-8 | 1 - 5 Trade Secret * |
| Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy- | 104810-48-2 | < 2 Trade Secret * |
| Polymeric Benzotriazole | 104810-47-1 | < 2 Trade Secret * |
| Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate | 41556-26-7 | < 0.5 Trade Secret * |
| HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM) | 64742-94-5 | < 0.5 Trade Secret * |
| ISODECYL DIPHENYL PHOSPHITE | 26544-23-0 | < 0.5 Trade Secret * |
| Methyl Methacrylate | 80-62-6 | < 0.5 Trade Secret * |
| Toluene | 108-88-3 | < 0.5 Trade Secret * |
| ZINC-2-ETHYLHEXANOATE | 136-53-8 | < 0.5 Trade Secret * |

*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

Remove person to fresh air. If you feel unwell, get medical attention.

Skin Contact:

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

Eye Contact:

Immediately flush with large amounts of water for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately get medical attention.

If Swallowed:

Rinse mouth. If you feel unwell, get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Allergic skin reaction (redness, swelling, blistering, and itching). Serious damage to the eyes (corneal cloudiness, severe pain, tearing, ulcerations, and significantly impaired or loss of vision). Central nervous system depression (headache, dizziness, drowsiness, incoordination, nausea, slurred speech, giddiness, and unconsciousness).

4.3. Indication of any immediate medical attention and special treatment required

Not applicable.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

5.2. Special hazards arising from the substance or mixture

Closed containers exposed to heat from fire may build pressure and explode.

Hazardous Decomposition or By-Products

| <u>Substance</u> | <u>Condition</u> |
|--------------------|-------------------|
| Carbon monoxide | During Combustion |
| Carbon dioxide | During Combustion |
| Hydrogen Chloride | During Combustion |
| Oxides of Nitrogen | During Combustion |

5.3. Special protective actions for fire-fighters

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions

Avoid release to the environment. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

6.3. Methods and material for containment and cleaning up

Contain spill. Cover spill area with a fire extinguishing foam that is resistant to polar solvents. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible using non-sparking tools. Place in a metal container approved for transportation by appropriate authorities. Clean up residue with detergent and water. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

For industrial/occupational use only. Not for consumer sale or use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Wear low static or properly grounded shoes. Use personal protective equipment (gloves, respirators, etc.) as required. To minimize the risk of ignition, determine applicable electrical classifications for the process using this product and select specific local

exhaust ventilation equipment to avoid flammable vapor accumulation. Ground/bond container and receiving equipment if there is potential for static electricity accumulation during transfer.

7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Protect from sunlight. Store away from heat. Store away from acids. Store away from oxidizing agents.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

| Ingredient | C.A.S. No. | Agency | Limit type | Additional Comments |
|----------------------------|------------|--------|--------------------------|--|
| 1-methoxy-2-propyl acetate | 108-65-6 | AIHA | TWA:50 ppm | |
| Toluene | 108-88-3 | ACGIH | TWA:20 ppm | A4: Not class. as human carcin., Ototoxicant |
| Toluene | 108-88-3 | OSHA | TWA:200 ppm;CEIL:300 ppm | |
| Cyclohexanone | 108-94-1 | ACGIH | TWA:20 ppm;STEL:50 ppm | A3: Confirmed animal carcin., Danger of cutaneous absorption |
| Cyclohexanone | 108-94-1 | OSHA | TWA:200 mg/m3(50 ppm) | |
| Methyl Methacrylate | 80-62-6 | ACGIH | TWA:50 ppm;STEL:100 ppm | A4: Not class. as human carcin., Dermal Sensitizer |
| Methyl Methacrylate | 80-62-6 | OSHA | TWA:410 mg/m3(100 ppm) | |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

OSHA : United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment. Use explosion-proof ventilation equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

Full Face Shield

Indirect Vented Goggles

Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective

clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity. Gloves made from the following material(s) are recommended: Polymer laminate

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron - polymer laminate

Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapors and particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state
Color

Liquid
Colorless

Specific Physical Form:

Liquid

Odor

Solvent

Odor threshold

No Data Available

pH

Not Applicable

Melting point

Not Applicable

Boiling Point

> 284 °F

Flash Point

113 °F [*Test Method: Closed Cup*]

Evaporation rate

No Data Available

Flammability (solid, gas)

Not Applicable

Flammable Limits(LEL)

1.0 %

Flammable Limits(UEL)

8.8 %

Vapor Pressure

< 3.7 mmHg [*@ 20 °C*]

Vapor Density

> 1 [*Ref Std: AIR=1*]

Density

1.04 g/ml

Specific Gravity

1.04 [*Ref Std: WATER=1*]

Solubility in Water

Moderate

Solubility- non-water

No Data Available

Partition coefficient: n-octanol/ water

No Data Available

Autoignition temperature

> 670 °F

Decomposition temperature

No Data Available

Viscosity

No Data Available

Volatile Organic Compounds

678 g/l

Percent volatile

60 - 70 %

VOC Less H₂O & Exempt Solvents

678 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Heat

Sparks and/or flames

10.5. Incompatible materials

Strong oxidizing agents

10.6. Hazardous decomposition products**Substance****Condition**

None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1. Information on Toxicological effects**Signs and Symptoms of Exposure**

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation:

May be harmful if inhaled.

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

May cause additional health effects (see below).

Skin Contact:

May be harmful in contact with skin.

Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, dryness, cracking, blistering, and pain.
Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Eye Contact:

Corrosive (Eye Burns): Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.

Ingestion:

May be harmful if swallowed.

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

May cause additional health effects (see below).

Additional Health Effects:

Single exposure may cause target organ effects:

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

Reproductive/Developmental Toxicity:

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Acute Toxicity

| Name | Route | Species | Value |
|---|--------------------------------|--------------|---|
| Overall product | Dermal | | No data available; calculated ATE >2,000 - =5,000 mg/kg |
| Overall product | Inhalation-Vapor(4 hr) | | No data available; calculated ATE >20 - =50 mg/l |
| Overall product | Ingestion | | No data available; calculated ATE >2,000 - =5,000 mg/kg |
| Cyclohexanone | Dermal | Rabbit | LD50 >794, <3160 mg/kg |
| Cyclohexanone | Inhalation-Vapor (4 hours) | Rat | LC50 > 6.2 mg/l |
| Cyclohexanone | Ingestion | Rat | LD50 1,296 mg/kg |
| ETHYL 3-ETHOXYPROPIONATE | Dermal | Rabbit | LD50 4,080 mg/kg |
| ETHYL 3-ETHOXYPROPIONATE | Inhalation-Vapor (4 hours) | Rat | LC50 > 14.4 mg/l |
| ETHYL 3-ETHOXYPROPIONATE | Ingestion | Rat | LD50 3,200 mg/kg |
| VINYL ACETATE-VINYL ALCOHOL-VINYL CHLORIDE POLYMER | Dermal | Rabbit | LD50 > 8,000 mg/kg |
| VINYL ACETATE-VINYL ALCOHOL-VINYL CHLORIDE POLYMER | Ingestion | Rat | LD50 > 8,000 mg/kg |
| 1-methoxy-2-propyl acetate | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| 1-methoxy-2-propyl acetate | Inhalation-Vapor (4 hours) | Rat | LC50 > 28.8 mg/l |
| 1-methoxy-2-propyl acetate | Ingestion | Rat | LD50 8,532 mg/kg |
| EPOXIDIZED SOYBEAN OIL | Dermal | Rabbit | LD50 > 20,000 mg/kg |
| EPOXIDIZED SOYBEAN OIL | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy- | Dermal | Rat | LD50 > 2,000 mg/kg |
| Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy- | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 5.8 mg/l |
| Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy- | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Polymeric Benzotriazole | Dermal | Rat | LD50 > 2,000 mg/kg |
| Polymeric Benzotriazole | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 5.8 mg/l |
| Polymeric Benzotriazole | Ingestion | Rat | LD50 > 5,000 mg/kg |
| HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM) | Inhalation-Vapor | | LC50 estimated to be 20 - 50 mg/l |
| HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM) | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM) | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate | Dermal | Professional | LD50 estimated to be 2,000 - 5,000 mg/kg |

| | | judgeme nt | |
|--|---------------------------------------|---------------|------------------------------------|
| Bis(1,2,2,6,6-pentamethyl-4-piperidiny) sebacate | Ingestion | Rat | LD50 3,125 mg/kg |
| ISODECYL DIPHENYL PHOSPHITE | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| ISODECYL DIPHENYL PHOSPHITE | Inhalation- Dust/Mist (4 hours) | Rat | LC50 > 2.1 mg/l |
| ISODECYL DIPHENYL PHOSPHITE | Ingestion | Rat | LD50 3,840 mg/kg |
| Toluene | Dermal | Rat | LD50 12,000 mg/kg |
| Toluene | Inhalation- Vapor (4 hours) | Rat | LC50 30 mg/l |
| Toluene | Ingestion | Rat | LD50 5,550 mg/kg |
| ZINC-2-ETHYLHEXANOATE | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| ZINC-2-ETHYLHEXANOATE | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Methyl Methacrylate | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Methyl Methacrylate | Inhalation- Vapor (4 hours) | Rat | LC50 29 mg/l |
| Methyl Methacrylate | Ingestion | Rat | LD50 7,900 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|---|-----------------------------------|---------------------------|
| Cyclohexanone | Rabbit | Irritant |
| ETHYL 3-ETHOXYPROPIONATE | Rabbit | No significant irritation |
| VINYL ACETATE-VINYL ALCOHOL-VINYL CHLORIDE POLYMER | Profession al judgeme nt | No significant irritation |
| 1-methoxy-2-propyl acetate | Rabbit | No significant irritation |
| EPOXIDIZED SOYBEAN OIL | Rabbit | No significant irritation |
| Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy- | Rabbit | No significant irritation |
| Polymeric Benzotriazole | Rabbit | No significant irritation |
| HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM) | Rabbit | Minimal irritation |
| Bis(1,2,2,6,6-pentamethyl-4-piperidiny) sebacate | Rabbit | Minimal irritation |
| ISODECYL DIPHENYL PHOSPHITE | Rabbit | No significant irritation |
| Toluene | Rabbit | Irritant |
| ZINC-2-ETHYLHEXANOATE | Rabbit | Mild irritant |
| Methyl Methacrylate | Human and animal | Mild irritant |

Serious Eye Damage/Irritation

| Name | Species | Value |
|---|-----------------------------------|---------------------------|
| Cyclohexanone | In vitro data | Corrosive |
| ETHYL 3-ETHOXYPROPIONATE | Rabbit | Mild irritant |
| VINYL ACETATE-VINYL ALCOHOL-VINYL CHLORIDE POLYMER | Profession al judgeme nt | No significant irritation |
| 1-methoxy-2-propyl acetate | Rabbit | Mild irritant |
| EPOXIDIZED SOYBEAN OIL | Rabbit | No significant irritation |
| Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy- | Rabbit | No significant irritation |
| Polymeric Benzotriazole | Rabbit | No significant irritation |
| HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM) | Rabbit | Mild irritant |
| Bis(1,2,2,6,6-pentamethyl-4-piperidiny) sebacate | Rabbit | Mild irritant |
| ISODECYL DIPHENYL PHOSPHITE | Rabbit | No significant irritation |
| Toluene | Rabbit | Moderate irritant |

| | | |
|-----------------------|--------|-------------------|
| ZINC-2-ETHYLHEXANOATE | Rabbit | Severe irritant |
| Methyl Methacrylate | Rabbit | Moderate irritant |

Skin Sensitization

| Name | Species | Value |
|--|------------------|----------------|
| Cyclohexanone | Guinea pig | Not classified |
| ETHYL 3-ETHOXYPROPIONATE | Guinea pig | Not classified |
| 1-methoxy-2-propyl acetate | Guinea pig | Not classified |
| EPOXIDIZED SOYBEAN OIL | Guinea pig | Not classified |
| Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy-Polymeric Benzotriazole | Guinea pig | Sensitizing |
| Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy-Polymeric Benzotriazole | Guinea pig | Sensitizing |
| HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM) | Guinea pig | Not classified |
| Bis(1,2,2,6,6-pentamethyl-4-piperidiny)l sebacate | Guinea pig | Sensitizing |
| ISODECYL DIPHENYL PHOSPHITE | Mouse | Sensitizing |
| Toluene | Guinea pig | Not classified |
| Methyl Methacrylate | Human and animal | Sensitizing |

Respiratory Sensitization

| Name | Species | Value |
|---------------------|---------|----------------|
| Methyl Methacrylate | Human | Not classified |

Germ Cell Mutagenicity

| Name | Route | Value |
|--|----------|--|
| Cyclohexanone | In vivo | Not mutagenic |
| Cyclohexanone | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| ETHYL 3-ETHOXYPROPIONATE | In Vitro | Not mutagenic |
| 1-methoxy-2-propyl acetate | In Vitro | Not mutagenic |
| EPOXIDIZED SOYBEAN OIL | In Vitro | Not mutagenic |
| Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy-Polymeric Benzotriazole | In Vitro | Not mutagenic |
| Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy-Polymeric Benzotriazole | In vivo | Not mutagenic |
| Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy-Polymeric Benzotriazole | In Vitro | Not mutagenic |
| Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy-Polymeric Benzotriazole | In vivo | Not mutagenic |
| HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM) | In Vitro | Not mutagenic |
| HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM) | In vivo | Not mutagenic |
| Bis(1,2,2,6,6-pentamethyl-4-piperidiny)l sebacate | In vivo | Not mutagenic |
| Bis(1,2,2,6,6-pentamethyl-4-piperidiny)l sebacate | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| ISODECYL DIPHENYL PHOSPHITE | In Vitro | Not mutagenic |
| ISODECYL DIPHENYL PHOSPHITE | In vivo | Not mutagenic |
| Toluene | In Vitro | Not mutagenic |
| Toluene | In vivo | Not mutagenic |
| Methyl Methacrylate | In vivo | Not mutagenic |
| Methyl Methacrylate | In Vitro | Some positive data exist, but the data are not sufficient for classification |

Carcinogenicity

| Name | Route | Species | Value |
|------|-------|---------|-------|
|------|-------|---------|-------|

| | | | |
|--|---------------|-------------------------|--|
| Cyclohexanone | Ingestion | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |
| EPOXIDIZED SOYBEAN OIL | Ingestion | Rat | Not carcinogenic |
| HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM) | Not Specified | Not applicable | Carcinogenic |
| Toluene | Dermal | Mouse | Some positive data exist, but the data are not sufficient for classification |
| Toluene | Ingestion | Rat | Some positive data exist, but the data are not sufficient for classification |
| Toluene | Inhalation | Mouse | Some positive data exist, but the data are not sufficient for classification |
| Methyl Methacrylate | Ingestion | Rat | Not carcinogenic |
| Methyl Methacrylate | Inhalation | Human and animal | Not carcinogenic |

Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test Result | Exposure Duration |
|---|------------|--|---------|-----------------------|------------------------------|
| Cyclohexanone | Inhalation | Not classified for female reproduction | Rat | NOAEL 4 mg/l | 2 generation |
| Cyclohexanone | Inhalation | Not classified for male reproduction | Rat | NOAEL 2 mg/l | 2 generation |
| Cyclohexanone | Ingestion | Not classified for development | Mouse | LOAEL 1,100 mg/kg/day | during organogenesis |
| Cyclohexanone | Inhalation | Not classified for development | Rat | NOAEL 2 mg/l | 2 generation |
| 1-methoxy-2-propyl acetate | Ingestion | Not classified for female reproduction | Rat | NOAEL 1,000 mg/kg/day | prematemg & during gestation |
| 1-methoxy-2-propyl acetate | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,000 mg/kg/day | prematemg & during gestation |
| 1-methoxy-2-propyl acetate | Ingestion | Not classified for development | Rat | NOAEL 1,000 mg/kg/day | prematemg & during gestation |
| 1-methoxy-2-propyl acetate | Inhalation | Not classified for development | Rat | NOAEL 21.6 mg/l | during organogenesis |
| EPOXIDIZED SOYBEAN OIL | Ingestion | Not classified for female reproduction | Rat | NOAEL 1,000 mg/kg/day | 1 generation |
| EPOXIDIZED SOYBEAN OIL | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,000 mg/kg/day | 1 generation |
| EPOXIDIZED SOYBEAN OIL | Ingestion | Not classified for development | Rat | NOAEL 1,000 mg/kg/day | 1 generation |
| Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy- | Ingestion | Not classified for female reproduction | Rat | NOAEL 100 mg/kg/day | prematemg into lactation |
| Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy- | Ingestion | Not classified for male reproduction | Rat | NOAEL 100 mg/kg/day | 115 days |
| Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy- | Ingestion | Not classified for development | Rat | NOAEL 2 mg/kg/day | prematemg into lactation |
| Polymeric Benzotriazole | Ingestion | Not classified for female reproduction | Rat | NOAEL 100 mg/kg/day | prematemg into lactation |
| Polymeric Benzotriazole | Ingestion | Not classified for male reproduction | Rat | NOAEL 100 mg/kg/day | 115 days |

| | | | | | |
|---|---------------|--|-------------------|-----------------------|----------------------------|
| Polymeric Benzotriazole | Ingestion | Not classified for development | Rat | NOAEL 2 mg/kg/day | prematuring into lactation |
| HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM) | Not Specified | Not classified for female reproduction | Rat | NOAEL Not available | 2 generation |
| HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM) | Not Specified | Not classified for male reproduction | Rat | NOAEL Not available | 2 generation |
| HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM) | Not Specified | Not classified for development | Rat | NOAEL Not available | 2 generation |
| Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,493 mg/kg/day | 29 days |
| Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate | Ingestion | Not classified for development | Rat | NOAEL 209 mg/kg/day | prematuring into lactation |
| Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate | Ingestion | Toxic to female reproduction | Rat | NOAEL 804 mg/kg/day | prematuring into lactation |
| Toluene | Inhalation | Not classified for female reproduction | Human | NOAEL Not available | occupational exposure |
| Toluene | Inhalation | Not classified for male reproduction | Rat | NOAEL 2.3 mg/l | 1 generation |
| Toluene | Ingestion | Toxic to development | Rat | LOAEL 520 mg/kg/day | during gestation |
| Toluene | Inhalation | Toxic to development | Human | NOAEL Not available | poisoning and/or abuse |
| ZINC-2-ETHYLHEXANOATE | Ingestion | Not classified for female reproduction | similar compounds | NOAEL 800 mg/kg/day | 2 generation |
| ZINC-2-ETHYLHEXANOATE | Ingestion | Not classified for male reproduction | similar compounds | NOAEL 800 mg/kg/day | 2 generation |
| ZINC-2-ETHYLHEXANOATE | Ingestion | Toxic to development | similar compounds | NOAEL 100 mg/kg/day | during gestation |
| Methyl Methacrylate | Inhalation | Not classified for male reproduction | Mouse | NOAEL 36.9 mg/l | |
| Methyl Methacrylate | Inhalation | Not classified for development | Rat | NOAEL 8.3 mg/l | during organogenesis |

Target Organ(s)

Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|--|------------|-----------------------------------|--|------------------------|---------------------|------------------------|
| Cyclohexanone | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Guinea pig | LOAEL 16.1 mg/l | 6 hours |
| Cyclohexanone | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | |
| Cyclohexanone | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Professional judgement | NOAEL Not available | |
| 1-methoxy-2-propyl acetate | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | | NOAEL Not available | |
| HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM) | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human and animal | NOAEL Not available | |
| Toluene | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | |
| Toluene | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | |
| Toluene | Inhalation | immune system | Not classified | Mouse | NOAEL 0.004 mg/l | 3 hours |
| Toluene | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | poisoning and/or abuse |

| | | | | | | |
|-----------------------|------------|------------------------|--|------------------------|---------------------|-----------------------|
| ZINC-2-ETHYLHEXANOATE | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL not available | |
| Methyl Methacrylate | Inhalation | respiratory irritation | May cause respiratory irritation | Human | NOAEL Not available | occupational exposure |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|---|------------|--|----------------|-------------------------|-----------------------|-------------------|
| Cyclohexanone | Inhalation | liver kidney and/or bladder | Not classified | Rabbit | NOAEL 0.76 mg/l | 50 days |
| Cyclohexanone | Ingestion | liver | Not classified | Mouse | NOAEL 4,800 mg/kg/day | 90 days |
| ETHYL 3-ETHOXYPROPIONATE | Inhalation | hematopoietic system | Not classified | Rat | NOAEL 6 mg/l | 90 days |
| ETHYL 3-ETHOXYPROPIONATE | Inhalation | nervous system heart liver immune system kidney and/or bladder | Not classified | Rat | NOAEL 6 mg/l | 17 days |
| ETHYL 3-ETHOXYPROPIONATE | Ingestion | liver | Not classified | Rat | NOAEL 1,000 mg/kg/day | 17 days |
| ETHYL 3-ETHOXYPROPIONATE | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| ETHYL 3-ETHOXYPROPIONATE | Ingestion | kidney and/or bladder respiratory system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 17 days |
| 1-methoxy-2-propyl acetate | Inhalation | kidney and/or bladder | Not classified | Rat | NOAEL 16.2 mg/l | 9 days |
| 1-methoxy-2-propyl acetate | Inhalation | olfactory system | Not classified | Mouse | LOAEL 1.62 mg/l | 9 days |
| 1-methoxy-2-propyl acetate | Inhalation | blood | Not classified | Multiple animal species | NOAEL 16.2 mg/l | 9 days |
| 1-methoxy-2-propyl acetate | Ingestion | endocrine system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 44 days |
| EPOXIDIZED SOYBEAN OIL | Ingestion | liver kidney and/or bladder | Not classified | Rat | NOAEL 1,250 mg/kg/day | 2 years |
| Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy- | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL not available | 28 days |
| Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy- | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 50 mg/kg/day | 90 days |
| Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy- | Ingestion | liver | Not classified | Rat | NOAEL 10 mg/kg/day | 28 days |
| Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5- | Ingestion | eyes | Not classified | Rat | NOAEL 50 mg/kg/day | 90 days |

| | | | | | | |
|--|------------|---|--|-------------------------|-----------------------|------------------------|
| (1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy- | | | | | | |
| Polymeric Benzotriazole | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL not available | 28 days |
| Polymeric Benzotriazole | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 50 mg/kg/day | 90 days |
| Polymeric Benzotriazole | Ingestion | liver | Not classified | Rat | NOAEL 10 mg/kg/day | 28 days |
| Polymeric Benzotriazole | Ingestion | eyes | Not classified | Rat | NOAEL 50 mg/kg/day | 90 days |
| Bis(1,2,2,6,6-pentamethyl-4-piperidiny) sebacate | Ingestion | eyes | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 300 mg/kg/day | 28 days |
| Bis(1,2,2,6,6-pentamethyl-4-piperidiny) sebacate | Ingestion | gastrointestinal tract liver immune system heart endocrine system hematopoietic system nervous system kidney and/or bladder | Not classified | Rat | NOAEL 1,493 mg/kg/day | 29 days |
| ISODECYL DIPHENYL PHOSPHITE | Ingestion | nervous system | May cause damage to organs though prolonged or repeated exposure | Rat | NOAEL 15 mg/kg/day | 28 days |
| Toluene | Inhalation | auditory system eyes olfactory system | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL Not available | poisoning and/or abuse |
| Toluene | Inhalation | nervous system | May cause damage to organs though prolonged or repeated exposure | Human | NOAEL Not available | poisoning and/or abuse |
| Toluene | Inhalation | respiratory system | Some positive data exist, but the data are not sufficient for classification | Rat | LOAEL 2.3 mg/l | 15 months |
| Toluene | Inhalation | heart liver kidney and/or bladder | Not classified | Rat | NOAEL 11.3 mg/l | 15 weeks |
| Toluene | Inhalation | endocrine system | Not classified | Rat | NOAEL 1.1 mg/l | 4 weeks |
| Toluene | Inhalation | immune system | Not classified | Mouse | NOAEL Not available | 20 days |
| Toluene | Inhalation | bone, teeth, nails, and/or hair | Not classified | Mouse | NOAEL 1.1 mg/l | 8 weeks |
| Toluene | Inhalation | hematopoietic system vascular system | Not classified | Human | NOAEL Not available | occupational exposure |
| Toluene | Inhalation | gastrointestinal tract | Not classified | Multiple animal species | NOAEL 11.3 mg/l | 15 weeks |
| Toluene | Ingestion | nervous system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 625 mg/kg/day | 13 weeks |
| Toluene | Ingestion | heart | Not classified | Rat | NOAEL 2,500 mg/kg/day | 13 weeks |
| Toluene | Ingestion | liver kidney and/or bladder | Not classified | Multiple animal species | NOAEL 2,500 mg/kg/day | 13 weeks |
| Toluene | Ingestion | hematopoietic system | Not classified | Mouse | NOAEL 600 mg/kg/day | 14 days |
| Toluene | Ingestion | endocrine system | Not classified | Mouse | NOAEL 105 mg/kg/day | 28 days |
| Toluene | Ingestion | immune system | Not classified | Mouse | NOAEL 105 mg/kg/day | 4 weeks |
| Methyl Methacrylate | Dermal | peripheral nervous system | Not classified | Human | NOAEL Not available | occupational exposure |
| Methyl Methacrylate | Inhalation | olfactory system | Causes damage to organs through | Human | NOAEL Not | occupational |

| | | | prolonged or repeated exposure | | available | exposure |
|---------------------|------------|-----------------------|--------------------------------|-------------------------|---------------------|-----------------------|
| Methyl Methacrylate | Inhalation | kidney and/or bladder | Not classified | Multiple animal species | NOAEL Not available | 14 weeks |
| Methyl Methacrylate | Inhalation | liver | Not classified | Mouse | NOAEL 12.3 mg/l | 14 weeks |
| Methyl Methacrylate | Inhalation | respiratory system | Not classified | Human | NOAEL Not available | occupational exposure |

Aspiration Hazard

| Name | Value |
|--|-------------------|
| HEAVY AROMATIC SOLVENT NAPHTHA (PETROLEUM) | Aspiration hazard |
| Toluene | Aspiration hazard |

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

SECTION 12: Ecological information

Ecotoxicological information

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

Chemical fate information

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

SECTION 13: Disposal considerations

13.1. Disposal methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Dispose of waste product in a permitted industrial waste facility. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

EPA Hazardous Waste Number (RCRA): D001 (Ignitable), D005 (Barium), D006 (Cadmium), D009 (Mercury), D043 (Vinyl chloride)

SECTION 14: Transport Information

For Transport Information, please visit <http://3M.com/Transportinfo> or call 1-800-364-3577 or 651-737-6501.

SECTION 15: Regulatory information

15.1. US Federal Regulations

Contact 3M for more information.

EPCRA 311/312 Hazard Classifications:

Physical Hazards

Flammable (gases, aerosols, liquids, or solids)

Health Hazards

Carcinogenicity

Reproductive toxicity

Respiratory or Skin Sensitization

Serious eye damage or eye irritation

Skin Corrosion or Irritation

Specific target organ toxicity (single or repeated exposure)

15.2. State Regulations

Contact 3M for more information.

15.3. Chemical Inventories

The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

Contact 3M for more information.

15.4. International Regulations

Contact 3M for more information.

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16: Other information**NFPA Hazard Classification**

Health: 3 **Flammability:** 2 **Instability:** 0 **Special Hazards:** None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

| | | | |
|------------------------|-----------|-------------------------|----------|
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