# Safety Data Sheet

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## SECTION 1: Identification

**1.1. Product identifier**
3M™ Screen Printing UV Ink 9802 Opaque Black

**Product Identification Numbers**
75-3470-5595-8
7000056068

**1.2. Recommended use and restrictions on use**

**Recommended use**
Screen Printing Ink, Ink

**1.3. Supplier's details**

| | |
|---|---|
| **MANUFACTURER:** | 3M |
| **DIVISION:** | Commercial Branding and Transportation 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**
Serious Eye Damage/Irritation: Category 2A.
Skin Sensitizer: Category 1.
Carcinogenicity: Category 2.
Reproductive Toxicity: Category 1B.
Specific Target Organ Toxicity (repeated exposure): Category 1.

**2.2. Label elements**
**Signal word**
Danger

**Symbols**
Exclamation mark |Health Hazard |

**Pictograms**



**Hazard Statements**

Causes serious eye irritation.
May cause an allergic skin reaction.
Suspected of causing cancer.
May damage fertility or the unborn child.

Causes damage to organs through prolonged or repeated exposure: respiratory system.

**Precautionary statements**

**Prevention:**
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe vapors.
Wash exposed skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves, eye protection, and if needed, respiratory protection (see SDS Section 8).

**Response:**
IF ON SKIN: Wash with plenty of soap and water.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF exposed or concerned: Get medical attention.
Get medical attention if you feel unwell.
If eye irritation persists or if skin irritation or rash occurs: Get medical attention.
Take off contaminated clothing and wash it before reuse.

**Storage:**
Store locked up.

**Disposal:**
Dispose of contents and container in accordance with applicable local, regional, national, and international regulations.

10% of the mixture consists of ingredients of unknown acute oral toxicity.
10% of the mixture consists of ingredients of unknown acute dermal toxicity.

## SECTION 3: Composition/information on ingredients

| Ingredient | C.A.S. No. | % by Wt |
|---|---|---|
| PHENOXY ETHYL ACRYLATE | 48145-04-6 | 15 - 40 Trade Secret * |
| VINYLCAPROLACTAM | 2235-00-9 | 10 - 30 Trade Secret * |
| Aliphatic Urethane Acrylate | Trade Secret* | 10 - 30 |
| METHACRYLATE POLYMER | Trade Secret* | 10 - 30 |
| CARBON BLACK | 1333-86-4 | 1 - 5 Trade Secret * |
| POLY(DIMETHYLSILOXANE) | 63148-62-9 | 1 - 5 |
| SYNTHETIC AMORPHOUS SILICA, FUMED, | 112945-52-5 | 1 - 5 |

| | | |
|---|---|---|
| CRYSTALLINE FREE | | |
| 1-BUTANONE, 2-(DIMETHYLAMINO)-1-[4-(4-MORPHOLINYL)PHENYL]-2-(PHENYLMETHYL)- | 119313-12-1 | 0.5 - 1.5 Trade Secret * |
| 1-PROPANONE, 2-METHYL-1-[4-(METHYLTHIO)PHENYL]-2-(4-MORPHOLINYL)- | 71868-10-5 | 0.5 - 1.5 Trade Secret * |
| DIETHYLENE GLYCOL ETHYL ETHER ACRYLATE | 7328-17-8 | 0.5 - 1.5 Trade Secret * |
| PROPOXYLATED GLYCEROL TRIACRYLATE | 52408-84-1 | 0.5 - 1.5 Trade Secret * |
| 2,4,6-Trimethylbenzoyldiphenylphosphine oxide | 75980-60-8 | 0.1 - 1 Trade Secret * |
| 2-ISOPROPYLTHIOXANTHONE | 5495-84-1 | 0.1 - 1 Trade Secret * |
| TMPEOTA | 28961-43-5 | < 1 |
| 2,6-DI-TERT-BUTYL-P-CRESOL | 128-37-0 | < 0.2 |

*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. Remove contact lenses if easy to do. Continue rinsing. 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). Target organ effects following prolonged or repeated exposure. See Section 11 for additional details.

**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 ordinary combustible material such as water or foam 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**

| Substance | Condition |
|---|---|
| Aldehydes | During Combustion |
| Formaldehyde | During Combustion |
| Carbon monoxide | During Combustion |
| Carbon dioxide | 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. 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. Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS.

**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. 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. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. 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. 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.) Use personal protective equipment (gloves, respirators, etc.) as required.

**7.2. Conditions for safe storage including any incompatibilities**
Keep cool. Protect from sunlight. Store away from heat. Store away from oxidizing agents. Store away from areas where product may come into contact with food or pharmaceuticals.

## 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 |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| Silica: Amorphous, including natural diatomaceous earth | 112945-52-5 | OSHA | TWA:20 millions of particles/cu. ft.;TWA concentration:0.8 mg/m3 | |
| 2,6-DI-TERT-BUTYL-P-CRESOL | 128-37-0 | ACGIH | TWA(inhalable fraction and vapor):2 mg/m3 | A4: Not class. as human carcin |
| CARBON BLACK | 1333-86-4 | ACGIH | TWA(inhalable fraction):3 mg/m3 | A3: Confirmed animal carcin. |
| CARBON BLACK | 1333-86-4 | OSHA | TWA:3.5 mg/m3 | |
| VINYLCAPROLACTAM | 2235-00-9 | Manufacturer determined | TWA(8 hours):0.1 ppm(0.57 mg/m3) | |

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.

**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:
Safety Glasses with side shields
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 (e.g., spraying, high splash potential, etc.), then use of a protective apron may be necessary. See recommended glove material(s) for determining appropriate apron material(s). If a glove material is not available as an apron, polymer laminate is a suitable option.

**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**

| | |
|---|---|
| **Physical state** | Liquid |
| **Specific Physical Form:** | Liquid |
| **Color** | Black |
| **Odor** | Slight Acrylate |
| **Odor threshold** | *No Data Available* |
| **pH** | *Not Applicable* |
| **Melting point/Freezing point** | *Not Applicable* |
| **Boiling point/Initial boiling point/Boiling range** | > 148.9 ºC |
| **Flash Point** | > 93.3 ºC [*Test Method:*Pensky-Martens Closed Cup] |
| **Evaporation rate** | < 1 [*Ref Std:*BUOAC=1] |
| **Flammability** | Not Applicable |
| **Flammable Limits(LEL)** | *No Data Available* |
| **Flammable Limits(UEL)** | *No Data Available* |
| **Vapor Pressure** | < 160 Pa [@ 20 ºC ] |
| **Relative Vapor Density** | *No Data Available* |
| **Density** | Approximately 1.3 g/ml |
| **Relative Density** | Approximately 1.3 [*Ref Std:*WATER=1] |
| **Water solubility** | Negligible |
| **Solubility- non-water** | *No Data Available* |
| **Partition coefficient: n-octanol/ water** | *No Data Available* |
| **Autoignition temperature** | *No Data Available* |
| **Decomposition temperature** | *No Data Available* |
| **Kinematic Viscosity** | *No Data Available* |
| **Volatile Organic Compounds** | 8 g/l |
| **Percent volatile** | 1 - 5 % weight |
| **VOC Less H2O & Exempt Solvents** | 8 g/l |

| | |
|---|---|
| **Particle Characteristics** | *Not Applicable* |

## 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 may occur. Upon loss of initiator or with exposure to heat.

**10.4. Conditions to avoid**
Sparks and/or flames
Heat

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

**Eye Contact:**
Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired 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:**

**Prolonged or repeated exposure may cause target organ effects:**
Respiratory Effects: Signs/symptoms may include cough, shortness of breath, chest tightness, wheezing, increased heart rate, bluish colored skin (cyanosis), sputum production, changes in lung function tests, and/or respiratory failure.

**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.

| Ingredient | CAS No. | Class Description | Regulation |
|---|---|---|---|
| Carbon black | 1333-86-4 | Grp. 2B: Possible human carc. | International Agency for Research on 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 >5,000 mg/kg |
| Overall product | Ingestion | | No data available; calculated ATE >2,000 - =5,000 mg/kg |
| PHENOXY ETHYL ACRYLATE | Dermal | Rat | LD50 > 2,000 mg/kg |
| PHENOXY ETHYL ACRYLATE | Ingestion | Rat | LD50 > 5,000 mg/kg |
| METHACRYLATE POLYMER | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| METHACRYLATE POLYMER | Ingestion | | LD50 estimated to be 2,000 - 5,000 mg/kg |
| VINYLCAPROLACTAM | Dermal | Rabbit | LD50 1,700 mg/kg |
| VINYLCAPROLACTAM | Ingestion | Rat | LD50 1,049 mg/kg |
| CARBON BLACK | Dermal | Rabbit | LD50 > 3,000 mg/kg |
| CARBON BLACK | Ingestion | Rat | LD50 > 8,000 mg/kg |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 0.691 mg/l |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | Ingestion | Rat | LD50 > 5,110 mg/kg |
| POLY(DIMETHYLSILOXANE) | Dermal | Multiple animal species | LD50 > 2,000 mg/kg |
| POLY(DIMETHYLSILOXANE) | Ingestion | Rat | LD50 > 5,000 mg/kg |
| PROPOXYLATED GLYCEROL TRIACRYLATE | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| PROPOXYLATED GLYCEROL TRIACRYLATE | Ingestion | Rat | LD50 > 2,000 mg/kg |
| DIETHYLENE GLYCOL ETHYL ETHER ACRYLATE | Dermal | | LD50 estimated to be 1,000 - 2,000 mg/kg |
| DIETHYLENE GLYCOL ETHYL ETHER ACRYLATE | Ingestion | Rat | LD50 1,860 mg/kg |
| 1-BUTANONE, 2-(DIMETHYLAMINO)-1-[4-(4-MORPHOLINYL)PHENYL]-2-(PHENYLMETHYL)- | Dermal | Rat | LD50 > 2,000 mg/kg |
| 1-BUTANONE, 2-(DIMETHYLAMINO)-1-[4-(4-MORPHOLINYL)PHENYL]-2-(PHENYLMETHYL)- | Ingestion | Rat | LD50 > 5,000 mg/kg |
| 1-PROPANONE, 2-METHYL-1-[4-(METHYLTHIO)PHENYL]-2-(4-MORPHOLINYL)- | Dermal | Rat | LD50 > 2,000 mg/kg |
| 1-PROPANONE, 2-METHYL-1-[4-(METHYLTHIO)PHENYL]-2-(4-MORPHOLINYL)- | Ingestion | Rat | LD50 967 mg/kg |
| TMPEOTA | Dermal | Rabbit | LD50 > 13,200 mg/kg |
| TMPEOTA | Ingestion | Rat | LD50 > 2,000 mg/kg |
| 2,4,6-Trimethylbenzoyldiphenylphosphine oxide | Dermal | Professional judgement | LD50 estimated to be > 5,000 mg/kg |
| 2,4,6-Trimethylbenzoyldiphenylphosphine oxide | Ingestion | Rat | LD50 > 5,000 mg/kg |
| 2-ISOPROPYLTHIOXANTHONE | Dermal | Rat | LD50 > 2,000 mg/kg |
| 2-ISOPROPYLTHIOXANTHONE | Ingestion | Rat | LD50 > 2,000 mg/kg |
| 2,6-DI-TERT-BUTYL-P-CRESOL | Dermal | Rat | LD50 > 2,000 mg/kg |
| 2,6-DI-TERT-BUTYL-P-CRESOL | Ingestion | Rat | LD50 > 2,930 mg/kg |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name | Species | Value |
|---|---|---|
| PHENOXY ETHYL ACRYLATE | Rabbit | No significant irritation |
| VINYLCAPROLACTAM | Rabbit | Minimal irritation |
| CARBON BLACK | Rabbit | No significant irritation |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | Rabbit | No significant irritation |
| POLY(DIMETHYLSILOXANE) | Human and animal | No significant irritation |
| PROPOXYLATED GLYCEROL TRIACRYLATE | Rabbit | Minimal irritation |
| DIETHYLENE GLYCOL ETHYL ETHER ACRYLATE | Rabbit | Irritant |
| 1-BUTANONE, 2-(DIMETHYLAMINO)-1-[4-(4-MORPHOLINYL)PHENYL]- | Rabbit | No significant irritation |

| | | |
|---|---|---|
| 2-(PHENYLMETHYL)- | | |
| 1-PROPANONE, 2-METHYL-1-[4-(METHYLTHIO)PHENYL]-2-(4-MORPHOLINYL)- | Rabbit | No significant irritation |
| TMPEOTA | Rabbit | Minimal irritation |
| 2,4,6-Trimethylbenzoyldiphenylphosphine oxide | Rabbit | No significant irritation |
| 2-ISOPROPYLTHIOXANTHONE | Rabbit | No significant irritation |
| 2,6-DI-TERT-BUTYL-P-CRESOL | Human and animal | Minimal irritation |

**Serious Eye Damage/Irritation**

| Name | Species | Value |
|---|---|---|
| PHENOXY ETHYL ACRYLATE | Rabbit | No significant irritation |
| VINYLCAPROLACTAM | Rabbit | Severe irritant |
| CARBON BLACK | Rabbit | No significant irritation |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | Rabbit | No significant irritation |
| POLY(DIMETHYLSILOXANE) | Rabbit | No significant irritation |
| PROPOXYLATED GLYCEROL TRIACRYLATE | Rabbit | Severe irritant |
| DIETHYLENE GLYCOL ETHYL ETHER ACRYLATE | Rabbit | Severe irritant |
| 1-BUTANONE, 2-(DIMETHYLAMINO)-1-[4-(4-MORPHOLINYL)PHENYL]-2-(PHENYLMETHYL)- | Rabbit | No significant irritation |
| 1-PROPANONE, 2-METHYL-1-[4-(METHYLTHIO)PHENYL]-2-(4-MORPHOLINYL)- | Rabbit | No significant irritation |
| TMPEOTA | Rabbit | Severe irritant |
| 2,4,6-Trimethylbenzoyldiphenylphosphine oxide | Rabbit | No significant irritation |
| 2-ISOPROPYLTHIOXANTHONE | Rabbit | No significant irritation |
| 2,6-DI-TERT-BUTYL-P-CRESOL | Rabbit | Mild irritant |

**Skin Sensitization**

| Name | Species | Value |
|---|---|---|
| PHENOXY ETHYL ACRYLATE | Guinea pig | Sensitizing |
| VINYLCAPROLACTAM | Mouse | Sensitizing |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | Human and animal | Not classified |
| POLY(DIMETHYLSILOXANE) | Human and animal | Not classified |
| PROPOXYLATED GLYCEROL TRIACRYLATE | Mouse | Sensitizing |
| DIETHYLENE GLYCOL ETHYL ETHER ACRYLATE | Guinea pig | Sensitizing |
| 1-BUTANONE, 2-(DIMETHYLAMINO)-1-[4-(4-MORPHOLINYL)PHENYL]-2-(PHENYLMETHYL)- | Guinea pig | Not classified |
| TMPEOTA | Guinea pig | Sensitizing |
| 2,4,6-Trimethylbenzoyldiphenylphosphine oxide | Mouse | Sensitizing |
| 2-ISOPROPYLTHIOXANTHONE | Guinea pig | Some positive data exist, but the data are not sufficient for classification |
| 2,6-DI-TERT-BUTYL-P-CRESOL | Human | Not classified |

**Respiratory Sensitization**

For the component/components, either no data are currently available or the data are not sufficient for classification.

**Germ Cell Mutagenicity**

| Name | Route | Value |
|---|---|---|
| VINYLCAPROLACTAM | In Vitro | Not mutagenic |
| CARBON BLACK | In Vitro | Not mutagenic |
| CARBON BLACK | In vivo | Some positive data exist, but the data are not sufficient for classification |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | In Vitro | Not mutagenic |

| | | |
|---|---|---|
| POLY(DIMETHYLSILOXANE) | In Vitro | Not mutagenic |
| POLY(DIMETHYLSILOXANE) | In vivo | Not mutagenic |
| PROPOXYLATED GLYCEROL TRIACRYLATE | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| 1-BUTANONE, 2-(DIMETHYLAMINO)-1-[4-(4-MORPHOLINYL)PHENYL]-2-(PHENYLMETHYL)- | In Vitro | Not mutagenic |
| 1-BUTANONE, 2-(DIMETHYLAMINO)-1-[4-(4-MORPHOLINYL)PHENYL]-2-(PHENYLMETHYL)- | In vivo | Not mutagenic |
| TMPEOTA | In vivo | Not mutagenic |
| TMPEOTA | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| 2,4,6-Trimethylbenzoyldiphenylphosphine oxide | In Vitro | Not mutagenic |
| 2-ISOPROPYLTHIOXANTHONE | In vivo | Not mutagenic |
| 2-ISOPROPYLTHIOXANTHONE | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| 2,6-DI-TERT-BUTYL-P-CRESOL | In Vitro | Not mutagenic |
| 2,6-DI-TERT-BUTYL-P-CRESOL | In vivo | Not mutagenic |

## Carcinogenicity

| Name | Route | Species | Value |
|---|---|---|---|
| CARBON BLACK | Dermal | Mouse | Not carcinogenic |
| CARBON BLACK | Ingestion | Mouse | Not carcinogenic |
| CARBON BLACK | Inhalation | Rat | Carcinogenic |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | Not Specified | Mouse | Some positive data exist, but the data are not sufficient for classification |
| POLY(DIMETHYLSILOXANE) | Dermal | Mouse | Not carcinogenic |
| POLY(DIMETHYLSILOXANE) | Ingestion | Mouse | Not carcinogenic |
| 2,6-DI-TERT-BUTYL-P-CRESOL | Ingestion | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |

## Reproductive Toxicity

## Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test Result | Exposure Duration |
|---|---|---|---|---|---|
| PHENOXY ETHYL ACRYLATE | Ingestion | Not classified for male reproduction | Rat | NOAEL 800 mg/kg/day | 43 days |
| PHENOXY ETHYL ACRYLATE | Ingestion | Toxic to female reproduction | Rat | NOAEL 300 mg/kg/day | premating into lactation |
| PHENOXY ETHYL ACRYLATE | Ingestion | Toxic to development | Rat | NOAEL 300 mg/kg/day | premating into lactation |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | Ingestion | Not classified for female reproduction | Rat | NOAEL 509 mg/kg/day | 1 generation |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | Ingestion | Not classified for male reproduction | Rat | NOAEL 497 mg/kg/day | 1 generation |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | Ingestion | Not classified for development | Rat | NOAEL 1,350 mg/kg/day | during organogenesis |
| POLY(DIMETHYLSILOXANE) | Ingestion | Not classified for development | Rat | NOAEL 3,800 mg/kg/day | during organogenesis |
| POLY(DIMETHYLSILOXANE) | Dermal | Not classified for development | Rabbit | NOAEL 1,000 mg/kg/day | during organogenesis |
| PROPOXYLATED GLYCEROL TRIACRYLATE | Ingestion | Not classified for female reproduction | Rat | NOAEL 750 mg/kg/day | premating into lactation |
| PROPOXYLATED GLYCEROL TRIACRYLATE | Ingestion | Not classified for male reproduction | Rat | NOAEL 750 mg/kg/day | 29 days |
| PROPOXYLATED GLYCEROL TRIACRYLATE | Ingestion | Not classified for development | Rat | NOAEL 1,000 mg/kg/day | during organogenesis |
| 1-BUTANONE, 2-(DIMETHYLAMINO)-1-[4-(4-MORPHOLINYL)PHENYL]-2-(PHENYLMETHYL)- | Ingestion | Not classified for female reproduction | Rat | NOAEL 300 mg/kg/day | 1 generation |

| | | | | | |
|---|---|---|---|---|---|
| 1-BUTANONE, 2-(DIMETHYLAMINO)-1-[4-(4-MORPHOLINYL)PHENYL]-2-(PHENYLMETHYL)- | Ingestion | Not classified for male reproduction | Rat | NOAEL 300 mg/kg/day | 1 generation |
| 1-BUTANONE, 2-(DIMETHYLAMINO)-1-[4-(4-MORPHOLINYL)PHENYL]-2-(PHENYLMETHYL)- | Ingestion | Toxic to development | Rat | NOAEL 30 mg/kg/day | 1 generation |
| 1-PROPANONE, 2-METHYL-1-[4-(METHYLTHIO)PHENYL]-2-(4-MORPHOLINYL)- | Ingestion | Toxic to female reproduction | Rat | LOAEL 40 mg/kg/day | 1 generation |
| 1-PROPANONE, 2-METHYL-1-[4-(METHYLTHIO)PHENYL]-2-(4-MORPHOLINYL)- | Ingestion | Toxic to development | Rat | LOAEL 40 mg/kg/day | 1 generation |
| TMPEOTA | Ingestion | Not classified for female reproduction | Rat | NOAEL 1,000 mg/kg/day | premating into lactation |
| TMPEOTA | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,000 mg/kg/day | 29 days |
| TMPEOTA | Ingestion | Not classified for development | Rat | NOAEL 1,000 mg/kg/day | during organogenesis |
| 2,4,6-Trimethylbenzoyldiphenylphosphine oxide | Ingestion | Toxic to development | Rat | NOAEL 150 mg/kg/day | during gestation |
| 2,4,6-Trimethylbenzoyldiphenylphosphine oxide | Ingestion | Toxic to female reproduction | Rat | NOAEL 200 mg/kg/day | premating into lactation |
| 2,4,6-Trimethylbenzoyldiphenylphosphine oxide | Ingestion | Toxic to male reproduction | Rat | NOAEL 60 mg/kg/day | 85 days |
| 2-ISOPROPYLTHIOXANTHONE | Ingestion | Not classified for development | Rat | NOAEL 62.5 mg/kg/day | premating into lactation |
| 2-ISOPROPYLTHIOXANTHONE | Ingestion | Toxic to female reproduction | Rat | NOAEL 62.5 mg/kg/day | premating into lactation |
| 2-ISOPROPYLTHIOXANTHONE | Ingestion | Toxic to male reproduction | Rat | NOAEL 62.5 mg/kg/day | 42 days |
| 2,6-DI-TERT-BUTYL-P-CRESOL | Ingestion | Not classified for female reproduction | Rat | NOAEL 500 mg/kg/day | 2 generation |
| 2,6-DI-TERT-BUTYL-P-CRESOL | Ingestion | Not classified for male reproduction | Rat | NOAEL 500 mg/kg/day | 2 generation |
| 2,6-DI-TERT-BUTYL-P-CRESOL | Ingestion | Not classified for development | Rat | NOAEL 100 mg/kg/day | 2 generation |

## Target Organ(s)

### Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|---|---|---|---|---|---|---|
| VINYLCAPROLACTAM | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL Not available | |
| PROPOXYLATED GLYCEROL TRIACRYLATE | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |
| TMPEOTA | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL not available | |

### Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|---|---|---|---|---|---|---|
| VINYLCAPROLACTAM | Inhalation | respiratory system | Causes damage to organs through prolonged or repeated exposure | Rat | NOAEL 0.001 mg/l | 28 days |
| VINYLCAPROLACTAM | Inhalation | blood | Not classified | Rat | NOAEL 0.18 mg/l | 90 days |
| VINYLCAPROLACTAM | Inhalation | liver | Not classified | Rat | NOAEL 0.18 mg/l | 90 days |
| VINYLCAPROLACTAM | Inhalation | kidney and/or bladder | Not classified | Rat | NOAEL 0.18 mg/l | 90 days |
| VINYLCAPROLACTAM | Inhalation | eyes | Not classified | Rat | NOAEL 0.18 | 90 days |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | | | mg/l | |
| VINYLCAPROLACTAM | Ingestion | liver | Not classified | Rat | NOAEL 260 mg/kg/day | 3 months |
| CARBON BLACK | Inhalation | pneumoconiosis | Not classified | Human | NOAEL Not available | occupational exposure |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | Inhalation | respiratory system | Not classified | Human | NOAEL Not available | occupational exposure |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | Inhalation | silicosis | Not classified | Human | NOAEL Not available | occupational exposure |
| POLY(DIMETHYLSILOXANE) | Ingestion | eyes | Not classified | Rat | NOAEL 10% in the diet | 90 days |
| POLY(DIMETHYLSILOXANE) | Ingestion | respiratory system | Not classified | Rat | NOAEL 1% in the diet | 90 days |
| POLY(DIMETHYLSILOXANE) | Ingestion | gastrointestinal tract | Not classified | Multiple animal species | NOAEL 10% in the diet | 90 days |
| POLY(DIMETHYLSILOXANE) | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 10% in the diet | 90 days |
| POLY(DIMETHYLSILOXANE) | Ingestion | heart | Not classified | Rat | NOAEL 1% in the diet | 90 days |
| POLY(DIMETHYLSILOXANE) | Ingestion | liver | Not classified | Rat | NOAEL 1% in the diet | 90 days |
| POLY(DIMETHYLSILOXANE) | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 1% in the diet | 90 days |
| POLY(DIMETHYLSILOXANE) | Ingestion | vascular system | Not classified | Rat | NOAEL 1% in the diet | 90 days |
| PROPOXYLATED GLYCEROL TRIACRYLATE | Dermal | heart | Not classified | Rabbit | NOAEL 500 mg/kg/day | 2 weeks |
| PROPOXYLATED GLYCEROL TRIACRYLATE | Dermal | skin | Not classified | Rabbit | LOAEL 500 mg/kg/day | 2 weeks |
| PROPOXYLATED GLYCEROL TRIACRYLATE | Dermal | liver | Not classified | Rabbit | NOAEL 500 mg/kg/day | 2 weeks |
| PROPOXYLATED GLYCEROL TRIACRYLATE | Dermal | nervous system | Not classified | Rabbit | NOAEL 500 mg/kg/day | 2 weeks |
| PROPOXYLATED GLYCEROL TRIACRYLATE | Dermal | kidney and/or bladder | Not classified | Rabbit | NOAEL 500 mg/kg/day | 2 weeks |
| PROPOXYLATED GLYCEROL TRIACRYLATE | Dermal | respiratory system | Not classified | Rabbit | NOAEL 500 mg/kg/day | 2 weeks |
| PROPOXYLATED GLYCEROL TRIACRYLATE | Ingestion | liver | Not classified | Rat | NOAEL 750 mg/kg/day | 29 days |
| PROPOXYLATED GLYCEROL TRIACRYLATE | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 750 mg/kg/day | 29 days |
| PROPOXYLATED GLYCEROL TRIACRYLATE | Ingestion | gastrointestinal tract | Not classified | Rat | NOAEL 150 mg/kg/day | 90 days |
| PROPOXYLATED GLYCEROL TRIACRYLATE | Ingestion | immune system | Not classified | Rat | NOAEL 750 mg/kg/day | 29 days |
| PROPOXYLATED GLYCEROL TRIACRYLATE | Ingestion | endocrine system | Not classified | Rat | NOAEL 375 mg/kg/day | 90 days |
| PROPOXYLATED GLYCEROL TRIACRYLATE | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 375 mg/kg/day | 90 days |
| PROPOXYLATED | Ingestion | nervous system | Not classified | Rat | NOAEL 375 | 90 days |

| | | | | | | |
|---|---|---|---|---|---|---|
| GLYCEROL TRIACRYLATE | | | | | mg/kg/day | |
| PROPOXYLATED GLYCEROL TRIACRYLATE | Ingestion | eyes | Not classified | Rat | NOAEL 375 mg/kg/day | 90 days |
| 1-BUTANONE, 2-(DIMETHYLAMINO)-1-[4-(4-MORPHOLINYL)PHENYL]-2-(PHENYLMETHYL)- | Ingestion | endocrine system | Not classified | Rat | NOAEL 500 mg/kg/day | 28 days |
| 1-BUTANONE, 2-(DIMETHYLAMINO)-1-[4-(4-MORPHOLINYL)PHENYL]-2-(PHENYLMETHYL)- | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 500 mg/kg/day | 28 days |
| 1-BUTANONE, 2-(DIMETHYLAMINO)-1-[4-(4-MORPHOLINYL)PHENYL]-2-(PHENYLMETHYL)- | Ingestion | liver | Not classified | Rat | NOAEL 500 mg/kg/day | 28 days |
| 1-BUTANONE, 2-(DIMETHYLAMINO)-1-[4-(4-MORPHOLINYL)PHENYL]-2-(PHENYLMETHYL)- | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 500 mg/kg/day | 28 days |
| 1-PROPANONE, 2-METHYL-1-[4-(METHYLTHIO)PHENYL]-2-(4-MORPHOLINYL)- | Ingestion | peripheral nervous system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 75 mg/kg/day | 90 days |
| 1-PROPANONE, 2-METHYL-1-[4-(METHYLTHIO)PHENYL]-2-(4-MORPHOLINYL)- | Ingestion | eyes | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 75 mg/kg/day | 90 days |
| TMPEOTA | Ingestion | gastrointestinal tract | Not classified | Rat | NOAEL 100 mg/kg/day | 29 days |
| TMPEOTA | Ingestion | endocrine system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 29 days |
| TMPEOTA | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 29 days |
| TMPEOTA | Ingestion | liver | Not classified | Rat | NOAEL 1,000 mg/kg/day | 29 days |
| TMPEOTA | Ingestion | immune system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 29 days |
| TMPEOTA | Ingestion | nervous system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 29 days |
| TMPEOTA | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 1,000 mg/kg/day | 29 days |
| 2,4,6-Trimethylbenzoyldiphenyl phosphine oxide | Ingestion | skin | Not classified | Rat | NOAEL 1,000 mg/kg/day | 90 days |
| 2,4,6-Trimethylbenzoyldiphenyl phosphine oxide | Ingestion | blood | Not classified | Rat | NOAEL 1,000 mg/kg/day | 90 days |
| 2,4,6-Trimethylbenzoyldiphenyl phosphine oxide | Ingestion | liver | Not classified | Rat | NOAEL 1,000 mg/kg/day | 90 days |

| | | | | | | |
|---|---|---|---|---|---|---|
| 2,4,6-Trimethylbenzoyldiphenyl phosphine oxide | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 1,000 mg/kg/day | 90 days |
| 2,4,6-Trimethylbenzoyldiphenyl phosphine oxide | Ingestion | nervous system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 90 days |
| 2-ISOPROPYLTHIOXANTHONE | Dermal | photoirritation | Not classified | Human | NOAEL not available | occupational exposure |
| 2-ISOPROPYLTHIOXANTHONE | Ingestion | endocrine system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| 2-ISOPROPYLTHIOXANTHONE | Ingestion | gastrointestinal tract | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| 2-ISOPROPYLTHIOXANTHONE | Ingestion | liver | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| 2-ISOPROPYLTHIOXANTHONE | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| 2-ISOPROPYLTHIOXANTHONE | Ingestion | auditory system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| 2-ISOPROPYLTHIOXANTHONE | Ingestion | heart | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| 2-ISOPROPYLTHIOXANTHONE | Ingestion | bone, teeth, nails, and/or hair | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| 2-ISOPROPYLTHIOXANTHONE | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| 2-ISOPROPYLTHIOXANTHONE | Ingestion | immune system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| 2-ISOPROPYLTHIOXANTHONE | Ingestion | nervous system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| 2-ISOPROPYLTHIOXANTHONE | Ingestion | eyes | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| 2-ISOPROPYLTHIOXANTHONE | Ingestion | respiratory system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| 2-ISOPROPYLTHIOXANTHONE | Ingestion | vascular system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| 2,6-DI-TERT-BUTYL-P-CRESOL | Ingestion | liver | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 250 mg/kg/day | 28 days |
| 2,6-DI-TERT-BUTYL-P-CRESOL | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 500 mg/kg/day | 2 generation |
| 2,6-DI-TERT-BUTYL-P-CRESOL | Ingestion | blood | Not classified | Rat | LOAEL 420 mg/kg/day | 40 days |
| 2,6-DI-TERT-BUTYL-P-CRESOL | Ingestion | endocrine system | Not classified | Rat | NOAEL 25 mg/kg/day | 2 generation |
| 2,6-DI-TERT-BUTYL-P-CRESOL | Ingestion | heart | Not classified | Mouse | NOAEL 3,480 mg/kg/day | 10 weeks |

**Aspiration Hazard**
For the component/components, either no data are currently available or the data are not sufficient for classification.

**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.

Incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. As a disposal alternative, utilize an acceptable permitted waste disposal 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.

# 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** |
|---|
| Not Applicable. |

| **Health Hazards** |
|---|
| Carcinogenicity |
| Reproductive toxicity |
| Respiratory or Skin Sensitization |
| Serious eye damage or eye 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 new substance notification requirements of CEPA.

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:** 2 **Flammability:** 1 **Instability:** 1 **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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