Safety Data Sheet

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SECTION 1: Identification

1.1. Product identifier
3M™ Screen Printing UV Ink 9805P Process Black

Product Identification Numbers
75-3470-6916-5
7000056123

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.

Supplemental Information:
Persons previously sensitized to isocyanates may develop a cross-sensitization reaction to other isocyanates.

12% of the mixture consists of ingredients of unknown acute oral toxicity.
12% 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 - 20 Trade Secret *
METHACRYLATE POLYMER	Trade Secret*	10 - 20
ALIPHATIC URETHANE ACRYLATE	Trade Secret*	7 - 13

ALKYLOLAMONIUM SALT OF A LOWER MOLECULAR WEIGHT POLYCARBOXYLIC ACID	Trade Secret*	1 - 5
SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE	112945-52-5	1 - 5
CARBON BLACK	1333-86-4	1 - 5 Trade Secret *
DIETHYLENE GLYCOL ETHYL ETHER ACRYLATE	7328-17-8	0.5 - 1.5 Trade Secret *
2-PHENOXYETHANOL	122-99-6	0.5 - 1.5 Trade Secret *
PROPOXYLATED GLYCEROL TRIACRYLATE	52408-84-1	0.5 - 1.5 Trade Secret *
OCTAMETHYLCYCLOTETRASILOXANE	556-67-2	0.1 - 1 Trade Secret *
1-BUTANONE, 2-(DIMETHYLAMINO)-1-[4-(4-MORPHOLINYL)PHENYL]-2-(PHENYLMETHYL)-	119313-12-1	0.1 - 1 Trade Secret *
1-PROPANONE, 2-METHYL-1-[4-(METHYLTHIO)PHENYL]-2-(4-MORPHOLINYL)-	71868-10-5	0.1 - 1 Trade Secret *
2,4,6-Trimethylbenzoyldiphenylphosphine oxide	75980-60-8	0.1 - 1 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. 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
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
Store in a well-ventilated place. Keep container tightly closed. 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	
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)	
OCTAMETHYLCYCLOTETRASILOXANE	556-67-2	AIHA	TWA:10 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. Provide local exhaust ventilation at transfer points.

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	< 1.2 mmHg [@ 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	4 g/l
Percent volatile	1 - 5 % weight
VOC Less H2O & Exempt Solvents	4 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

Additional Information:
Persons previously sensitized to isocyanates may develop a cross-sensitization reaction to other isocyanates.

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
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
2-PHENOXYETHANOL	Dermal	Rabbit	LD50 > 2,000 mg/kg
2-PHENOXYETHANOL	Inhalation-Dust/Mist	Rat	LC50 > 1.5 mg/l
2-PHENOXYETHANOL	Ingestion	Rat	LD50 1,394 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
OCTAMETHYLCYCLOTETRASILOXANE	Dermal	Rat	LD50 > 2,400 mg/kg
OCTAMETHYLCYCLOTETRASILOXANE	Inhalation-Dust/Mist (4 hours)	Rat	LC50 36 mg/l
OCTAMETHYLCYCLOTETRASILOXANE	Ingestion	Rat	LD50 > 4,800 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
PROPOXYLATED GLYCEROL TRIACRYLATE	Rabbit	Minimal irritation
DIETHYLENE GLYCOL ETHYL ETHER ACRYLATE	Rabbit	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

2-PHENOXYETHANOL	Rabbit	No significant irritation
2,4,6-Trimethylbenzoyldiphenylphosphine oxide	Rabbit	No significant irritation
OCTAMETHYLCYCLOTETRASILOXANE	Rabbit	No significant 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
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
2-PHENOXYETHANOL	Rabbit	Corrosive
2,4,6-Trimethylbenzoyldiphenylphosphine oxide	Rabbit	No significant irritation
OCTAMETHYLCYCLOTETRASILOXANE	Rabbit	No significant irritation

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
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
2-PHENOXYETHANOL	Guinea pig	Not classified
2,4,6-Trimethylbenzoyldiphenylphosphine oxide	Mouse	Sensitizing
OCTAMETHYLCYCLOTETRASILOXANE	Human and animal	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
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
2-PHENOXYETHANOL	In Vitro	Not mutagenic
2-PHENOXYETHANOL	In vivo	Not mutagenic
2,4,6-Trimethylbenzoyldiphenylphosphine oxide	In Vitro	Not mutagenic
OCTAMETHYLCYCLOTETRASILOXANE	In vivo	Not mutagenic
OCTAMETHYLCYCLOTETRASILOXANE	In Vitro	Some positive data exist, but the data are not

		sufficient for classification

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
2-PHENOXYETHANOL	Ingestion	Multiple animal species	Not carcinogenic
OCTAMETHYLCYCLOTETRASILOXANE	Inhalation	Rat	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
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
2-PHENOXYETHANOL	Ingestion	Not classified for female reproduction	Mouse	NOAEL 3,700 mg/kg/day	2 generation
2-PHENOXYETHANOL	Ingestion	Not classified for male reproduction	Mouse	NOAEL 3,700 mg/kg/day	2 generation
2-PHENOXYETHANOL	Dermal	Not classified for development	Rabbit	NOAEL 600 mg/kg/day	during organogenesis
2-PHENOXYETHANOL	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	during gestation
2,4,6-Trimethylbenzoyldiphenylphosphine	Ingestion	Toxic to development	Rat	NOAEL 150	during

oxide				mg/kg/day	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
OCTAMETHYLCYCLOTETRASILOXANE	Inhalation	Not classified for male reproduction	Rat	NOAEL 8.5 mg/l	2 generation
OCTAMETHYLCYCLOTETRASILOXANE	Inhalation	Not classified for development	Rabbit	NOAEL 6 mg/l	during organogenesis
OCTAMETHYLCYCLOTETRASILOXANE	Ingestion	Not classified for development	Rabbit	NOAEL 100 mg/kg	during organogenesis
OCTAMETHYLCYCLOTETRASILOXANE	Inhalation	Toxic to female reproduction	Rat	NOAEL 3.6 mg/l	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	
2-PHENOXYETHANOL	Inhalation	respiratory irritation	May cause respiratory irritation	official classification	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 mg/l	90 days
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
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	Dermal	nervous system	Not classified	Rabbit	NOAEL 500	2 weeks

GLYCEROL TRIACRYLATE					mg/kg/day	
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 GLYCEROL TRIACRYLATE	Ingestion	nervous system	Not classified	Rat	NOAEL 375 mg/kg/day	90 days
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
2-PHENOXYETHANOL	Dermal	skin	Not classified	Rabbit	NOAEL 500 mg/kg/day	13 weeks

2-PHENOXYETHANOL	Dermal	hematopoietic system	Not classified	Rabbit	NOAEL 500 mg/kg/day	13 weeks
2-PHENOXYETHANOL	Dermal	liver	Not classified	Rabbit	NOAEL 500 mg/kg/day	13 weeks
2-PHENOXYETHANOL	Dermal	eyes	Not classified	Rabbit	NOAEL 500 mg/kg/day	13 weeks
2-PHENOXYETHANOL	Ingestion	heart	Not classified	Rat	NOAEL 1,514 mg/kg/day	13 weeks
2-PHENOXYETHANOL	Ingestion	endocrine system	Not classified	Rat	NOAEL 1,514 mg/kg/day	13 weeks
2-PHENOXYETHANOL	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 1,514 mg/kg/day	13 weeks
2-PHENOXYETHANOL	Ingestion	liver	Not classified	Rat	NOAEL 1,514 mg/kg/day	13 weeks
2-PHENOXYETHANOL	Ingestion	immune system	Not classified	Rat	NOAEL 1,514 mg/kg/day	13 weeks
2-PHENOXYETHANOL	Ingestion	nervous system	Not classified	Rat	NOAEL 1,514 mg/kg/day	13 weeks
2-PHENOXYETHANOL	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 1,514 mg/kg/day	13 weeks
2-PHENOXYETHANOL	Ingestion	respiratory system	Not classified	Rat	NOAEL 1,514 mg/kg/day	13 weeks
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
OCTAMETHYLCYCLOTETRASILOXANE	Dermal	hematopoietic system	Not classified	Rabbit	NOAEL 960 mg/kg/day	3 weeks
OCTAMETHYLCYCLOTETRASILOXANE	Inhalation	liver	Not classified	Rat	NOAEL 8.5 mg/l	13 weeks
OCTAMETHYLCYCLOTETRASILOXANE	Inhalation	endocrine system	Not classified	Rat	NOAEL 8.5 mg/l	2 generation
OCTAMETHYLCYCLOTETRASILOXANE	Inhalation	immune system	Not classified	Rat	NOAEL 8.5 mg/l	2 generation
OCTAMETHYLCYCLOTETRASILOXANE	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 8.5 mg/l	2 generation
OCTAMETHYLCYCLOTETRASILOXANE	Inhalation	hematopoietic system	Not classified	Rat	NOAEL 8.5 mg/l	13 weeks
OCTAMETHYLCYCLOTETRASILOXANE	Ingestion	liver	Not classified	Rat	NOAEL 1,600 mg/kg/day	2 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.

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. 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 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:** 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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