



Safety Data Sheet

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SECTION 1: Identification

1.1. Product identifier

3M™ Screen Printing UV Heavy Body Base 9800HBB

Product Identification Numbers

75-3470-6336-6

1.2. Recommended use and restrictions on use

Recommended use

UV Ink, Ink

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

Serious Eye Damage/Irritation: Category 2A.

Skin Sensitizer: Category 1A.

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.

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

Wear protective gloves and eye/face protection.

Do not eat, drink or smoke when using this product.

Wash thoroughly after handling.

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

Response:

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

If eye irritation persists: Get medical advice/attention.

IF ON SKIN: Wash with plenty of soap and water.

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

Wash contaminated clothing before reuse.

IF exposed or concerned: Get medical advice/attention.

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.

12% of the mixture consists of ingredients of unknown acute oral toxicity.

30% 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 | 30 - 40 Trade Secret * |
| VINYLCAPROLACTAM | 2235-00-9 | 10 - 20 Trade Secret * |
| ALIPHATIC URETHANE ACRYLATE | Trade Secret* | 10 - 20 Trade Secret * |
| METHACRYLATE POLYMER | Trade Secret* | 10 - 20 Trade Secret * |
| 1-PROPANONE, 2-METHYL-1-[4-(METHYLTHIO)PHENYL]-2-(4-MORPHOLINY)- | 71868-10-5 | 1 - 5 Trade Secret * |

| | | |
|--|---------------|----------------------|
| 2-PHENOXYETHANOL | 122-99-6 | 1 - 5 Trade Secret * |
| DIETHYLENE GLYCOL ETHYL ETHER ACRYLATE | 7328-17-8 | 1 - 5 Trade Secret * |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | 112945-52-5 | 1 - 5 Trade Secret * |
| WATER | 7732-18-5 | 1 - 5 Trade Secret * |
| ALKYLOLAMONIUM SALT OF A LOWER MOLECULAR WEIGHT POLYCARBOXYLIC ACID | Trade Secret* | 1 - 5 Trade Secret * |
| [.ALPHA.,.ALPHA.',.ALPHA."-1,2,3-PROPANETRIYLTRIS[POLYPROPYLENE GLYCOL ACRYLATE] | 52408-84-1 | < 1.0 Trade Secret * |
| TRIMETHYLOLPROPANE ETHOXYLATE TRIACRYLATE | 28961-43-5 | < 1.0 Trade Secret * |
| OCTAMETHYLCYCLOTETRAILOXANE | 556-67-2 | < 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. 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

See Section 11.1. Information on toxicological effects.

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

Formaldehyde

Carbon monoxide

Condition

During Combustion

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.

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. 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. 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 or professional use only. 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.

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 | 112945-52-5 | OSHA | TWA concentration:0.8 mg/m ³ ;TWA:20 millions of particles/cu. ft. | |
| VINYLCAPROLACTAM | 2235-00-9 | Manufacturer determined | TWA:0.1 ppm(0.57 mg/m ³) | |
| OCTAMETHYLCYCLOTETRA | 556-67-2 | AIHA | TWA:10 ppm | |

SILOXANE

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:

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

Boots - Rubber

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**

General Physical Form:

Liquid

Specific Physical Form:

Liquid

Odor, Color, Grade:

Colorless, acrylate odor

Odor threshold

No Data Available

pH

Not Applicable

Melting point

Not Applicable

Boiling Point

> 300 °F

Flash Point

> 200 °F [Test Method: Pensky-Martens Closed Cup]

| | |
|---|-------------------------------------|
| Evaporation rate | < 1 [Ref Std:BUOAC=1] |
| Flammability (solid, gas) | Not Applicable |
| Flammable Limits(LEL) | No Data Available |
| Flammable Limits(UEL) | No Data Available |
| Vapor Pressure | < 1.2 mmHg [@ 20 °C] |
| Vapor Density | No Data Available |
| Density | Approximately 1.3 g/ml |
| Specific Gravity | Approximately 1.3 [Ref Std:WATER=1] |
| Solubility in Water | 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 |
| Viscosity | No Data Available |
| Volatile Organic Compounds | 5 g/l |
| Percent volatile | 1 - 5 % weight |
| VOC Less H2O & Exempt Solvents | 5 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 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

| <u>Substance</u> | <u>Condition</u> |
|------------------|------------------|
| 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.

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 |
| 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 |

| | | | |
|---|--------------------------------|--------|--|
| 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 |
| 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 |
| 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 1,260 mg/kg |
| TRIMETHYLOLPROPANE ETHOXYLATE TRIACRYLATE | Dermal | Rabbit | LD50 > 13,000 mg/kg |
| TRIMETHYLOLPROPANE ETHOXYLATE TRIACRYLATE | Ingestion | Rat | LD50 > 2,000 mg/kg |
| .ALPHA.,.ALPHA.',.ALPHA."-1,2,3-PROPANETRIYLTRIS[POLYPROPYLENE GLYCOL ACRYLATE] | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| .ALPHA.,.ALPHA.',.ALPHA."-1,2,3-PROPANETRIYLTRIS[POLYPROPYLENE GLYCOL ACRYLATE] | Ingestion | Rat | LD50 > 2,000 mg/kg |
| OCTAMETHYLCYCLOTETRASIOXANE | Dermal | Rat | LD50 > 2,400 mg/kg |
| OCTAMETHYLCYCLOTETRASIOXANE | Inhalation-Dust/Mist (4 hours) | Rat | LC50 36 mg/l |
| OCTAMETHYLCYCLOTETRASIOXANE | Ingestion | Rat | LD50 > 5,000 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|---|---------|---------------------------|
| PHENOXY ETHYL ACRYLATE | Rabbit | No significant irritation |
| VINYLCAPROLACTAM | Rabbit | Minimal irritation |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | Rabbit | No significant irritation |
| 1-PROPANONE, 2-METHYL-1-[4-(METHYLTHIO)PHENYL]-2-(4-MORPHOLINYL)- | Rabbit | No significant irritation |
| DIETHYLENE GLYCOL ETHYL ETHER ACRYLATE | Rabbit | Irritant |
| 2-PHENOXYETHANOL | Rabbit | No significant irritation |
| TRIMETHYLOLPROPANE ETHOXYLATE TRIACRYLATE | Rabbit | Minimal irritation |
| .ALPHA.,.ALPHA.',.ALPHA."-1,2,3-PROPANETRIYLTRIS[POLYPROPYLENE GLYCOL ACRYLATE] | Rabbit | Minimal irritation |
| OCTAMETHYLCYCLOTETRASIOXANE | Rabbit | Minimal irritation |

Serious Eye Damage/Irritation

| Name | Species | Value |
|---|---------|---------------------------|
| PHENOXY ETHYL ACRYLATE | Rabbit | Moderate irritant |
| VINYLCAPROLACTAM | Rabbit | Severe irritant |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | Rabbit | No significant irritation |
| 1-PROPANONE, 2-METHYL-1-[4-(METHYLTHIO)PHENYL]-2-(4-MORPHOLINYL)- | Rabbit | No significant irritation |
| DIETHYLENE GLYCOL ETHYL ETHER ACRYLATE | Rabbit | Severe irritant |
| 2-PHENOXYETHANOL | Rabbit | Corrosive |
| TRIMETHYLOLPROPANE ETHOXYLATE TRIACRYLATE | Rabbit | Severe irritant |
| .ALPHA.,.ALPHA.',.ALPHA."-1,2,3-PROPANETRIYLTRIS[POLYPROPYLENE GLYCOL ACRYLATE] | Rabbit | Severe irritant |
| OCTAMETHYLCYCLOTETRASIOXANE | 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 |

| | | |
|---|------------------|----------------|
| DIETHYLENE GLYCOL ETHYL ETHER ACRYLATE | Guinea pig | Sensitizing |
| 2-PHENOXYETHANOL | Guinea pig | Not classified |
| TRIMETHYLOLPROPANE ETHOXYLATE TRIACRYLATE | Guinea pig | Sensitizing |
| .ALPHA.,.ALPHA.',.ALPHA."-1,2,3-PROPANETRIYLTRIS[POLYPROPYLENE GLYCOL ACRYLATE] | 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 |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | In Vitro | Not mutagenic |
| OCTAMETHYLCYCLOTETRASILOXANE | In Vitro | Some positive data exist, but the data are not sufficient for classification |

Carcinogenicity

| Name | Route | Species | Value |
|---|---------------|---------|--|
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | Not Specified | Mouse | 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 |
|---|------------|--|---------|-----------------------|----------------------|
| 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 |
| 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 |
| OCTAMETHYLCYCLOTETRASILOXANE | Inhalation | Not classified for male reproduction | Rat | NOAEL 8.5 mg/l | 2 generation |
| OCTAMETHYLCYCLOTETRASILOXANE | Ingestion | Toxic to female reproduction | Rabbit | NOAEL 50 mg/kg/day | 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 | |
| 2-PHENOXYETHANOL | Inhalation | respiratory irritation | Some positive data exist, but the | similar | NOAEL Not | |

| | | | | | | |
|--|--|--|--|----------------|-----------|--|
| | | | data are not sufficient for classification | health hazards | 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 liver kidney and/or bladder eyes | Not classified | Rat | NOAEL 0.18 mg/l | 90 days |
| VINYLCAPROLACTAM | Ingestion | liver | Not classified | Rat | NOAEL 260 mg/kg/day | 3 months |
| SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE | Inhalation | respiratory system silicosis | Not classified | Human | NOAEL Not available | occupational exposure |
| 1-PROPANONE, 2-METHYL-1-[4-(METHYLTHIO)PHENYL]-2-(4-MORPHOLINYL)- | Ingestion | peripheral nervous system eyes | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 75 mg/kg/day | 90 days |
| OCTAMETHYLCYCLOTETRAISILOXANE | Dermal | hematopoietic system | Not classified | Rabbit | NOAEL 960 mg/kg/day | 3 weeks |
| OCTAMETHYLCYCLOTETRAISILOXANE | Inhalation | liver | Not classified | Rat | NOAEL 8.5 mg/l | 13 weeks |
| OCTAMETHYLCYCLOTETRAISILOXANE | Inhalation | endocrine system immune system kidney and/or bladder | Not classified | Rat | NOAEL 8.5 mg/l | 2 generation |
| OCTAMETHYLCYCLOTETRAISILOXANE | Inhalation | hematopoietic system | Not classified | Rat | NOAEL 8.5 mg/l | 13 weeks |
| OCTAMETHYLCYCLOTETRAISILOXANE | 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.

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.

EPA Hazardous Waste Number (RCRA): Not regulated

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

Reproductive toxicity

Respiratory or Skin Sensitization

Serious eye damage or eye irritation

Specific target organ toxicity (single or repeated exposure)

Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):

| <u>Ingredient</u> | <u>C.A.S. No</u> | <u>% by Wt</u> |
|--|------------------|----------------|
| PHENOXY ETHYL ACRYLATE (GLYCOL ETHERS) | 48145-04-6 | 30 - 40 |
| DIETHYLENE GLYCOL ETHYL ETHER ACRYLATE (GLYCOL ETHERS) | 7328-17-8 | 1 - 5 |
| 2-PHENOXYETHANOL (GLYCOL ETHERS) | 122-99-6 | 1 - 5 |

This material contains a chemical which requires export notification under TSCA Section 12[b]:

| <u>Ingredient (Category if applicable)</u> | <u>C.A.S. No</u> | <u>Regulation</u> | <u>Status</u> |
|--|------------------|--|---------------|
| OCTAMETHYLCYCLOTETRASILOXANE | 556-67-2 | Toxic Substances Control Act (TSCA) 4 Test Rule Chemicals | Applicable |

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.

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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