



Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the REACH Regulation (1907/2006), as amended for GB.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

3M™ Screen Printing UV Ink 9805P Process Black

Product Identification Numbers

75-3470-6916-5

7000056123

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses

Ink

1.3. Details of the supplier of the safety data sheet

Address: 3M United Kingdom PLC, 3M Centre, Cain Road, Bracknell, Berkshire, RG12 8HT.
Telephone: +44 (0)1344 858 000
E Mail: ner-productstewardship@mmm.com
Website: www.3M.com/uk

1.4. Emergency telephone number

+44 (0)1344 858 000

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

The retained CLP Regulation (EU) No 1272/2008 as amended for Great Britain

The health and environmental classifications of this material have been derived using the calculation method, except in cases where test data are available or the physical form impacts classification. Classification(s) based on test data or physical form are noted below, if applicable.

CLASSIFICATION:

Serious Eye Damage/Eye Irritation, Category 2 - Eye Irrit. 2; H319
 Skin Sensitization, Category 1 - Skin Sens. 1; H317
 Reproductive Toxicity, Category 1B - Repr. 1B; H360FD
 Specific Target Organ Toxicity-Repeated Exposure, Category 1 - STOT RE 1; H372
 Hazardous to the Aquatic Environment (Chronic), Category 2 - Aquatic Chronic 2; H411

For full text of H phrases, see Section 16.

2.2. Label elements

The retained CLP Regulation (EU) No 1272/2008 as amended for Great Britain

SIGNAL WORD

DANGER.

Symbols

GHS07 (Exclamation mark) | GHS08 (Health Hazard) | GHS09 (Environment) |

Pictograms



| Ingredient | CAS Nbr | EC No. | % by Wt |
|---|-------------|-----------|---------|
| 2-Phenoxyethyl acrylate | 48145-04-6 | 256-360-6 | 30 - 40 |
| 1-Vinylhexahydro-2H-azepin-2-one | 2235-00-9 | 218-787-6 | 10 - 20 |
| Glycerol, propoxylated, esters with acrylic acid | 52408-84-1 | 500-114-5 | 1 - 5 |
| 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone | 119313-12-1 | 404-360-3 | 1 - 5 |
| 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one | 71868-10-5 | 400-600-6 | 1 - 5 |
| mequinol | 150-76-5 | 205-769-8 | < 0.5 |
| 2-(2-Ethoxyethoxy)ethyl acrylate | 7328-17-8 | 230-811-7 | 1 - 5 |
| diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | 75980-60-8 | 278-355-8 | < 1 |
| Propylidynetrimethanol, ethoxylated, esters with acrylic acid | 28961-43-5 | 500-066-5 | < 1 |

HAZARD STATEMENTS:

| | |
|--------|---|
| H319 | Causes serious eye irritation. |
| H317 | May cause an allergic skin reaction. |
| H360FD | May damage fertility. May damage the unborn child. |
| H372 | Causes damage to organs through prolonged or repeated exposure: liver respiratory system. |
| H411 | Toxic to aquatic life with long lasting effects. |

PRECAUTIONARY STATEMENTS

Prevention:

| | |
|-------|---|
| P201 | Obtain special instructions before use. |
| P260A | Do not breathe vapours. |
| P273 | Avoid release to the environment. |
| P280E | Wear protective gloves. |

Response:

P308 + P313
P333 + P313

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

SUPPLEMENTAL INFORMATION:

Supplemental Precautionary Statements:

Restricted to professional users.

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

12% of the mixture consists of components of unknown acute dermal toxicity.

Contains 12% of components with unknown hazards to the aquatic environment.

2.3. Other hazards

Persons previously sensitised to isocyanates may develop a cross-sensitisation reaction to other isocyanates. Contains a substance that meets the criteria for PBT according to Regulation (EC) No 1907/2006, Annex XIII, as amended by UK REACH Regulations SI 2019/758. Contains a substance that meets the criteria for vPvB according to Regulation (EC) No 1907/2006, Annex XIII, as amended by UK REACH Regulations SI 2019/758.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Ingredient | Identifier(s) | % | Classification according to Regulation (EC) No. 1272/2008 [CLP], as amended for GB |
|--|---|---------|--|
| 2-Phenoxyethyl acrylate | (CAS-No.) 48145-04-6 (EC-No.) 256-360-6 | 30 - 40 | Skin Sens. 1A, H317 Repr. 2, H361df Aquatic Chronic 2, H411 |
| Methacrylate polymer | Trade Secret | 10 - 20 | Substance not classified as hazardous |
| 1-Vinylhexahydro-2H-azepin-2-one | (CAS-No.) 2235-00-9 (EC-No.) 218-787-6 | 10 - 20 | Acute Tox. 4, H312 Acute Tox. 4, H302 Eye Irrit. 2, H319 Skin Sens. 1B, H317 STOT RE 1, H372 |
| Aliphatic urethane acrylate | Trade Secret | 7 - 13 | Substance not classified as hazardous |
| Polycarboxylic acid, alkylolammonium salt (low molecular weight) | Trade Secret | 1 - 5 | Substance not classified as hazardous |
| 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone | (CAS-No.) 119313-12-1 (EC-No.) 404-360-3 | 1 - 5 | Repr. 1B, H360D Aquatic Acute 1, H400,M=1 Aquatic Chronic 1, H410,M=1 |
| 2-(2-Ethoxyethoxy)ethyl acrylate | (CAS-No.) 7328-17-8 (EC-No.) 230-811-7 | 1 - 5 | Acute Tox. 4, H312 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412 |
| 2-phenoxyethanol | (CAS-No.) 122-99-6 (EC-No.) 204-589-7 | 1 - 5 | Acute Tox. 4, H302(LD50 = 1394 mg/kg **ATE values per GB MCL**) Eye Dam. 1, H318 |

| | | | |
|---|---|-------|---|
| | | | STOT SE 3, H335 |
| octamethylcyclotetrasiloxane | (CAS-No.) 556-67-2 (EC-No.) 209-136-7 | < 0.5 | Repr. 2, H361f Aquatic Chronic 1, H410,M=10 Flam. Liq. 3, H226 |
| Synthetic amorphous silica, fumed, crystalline-free | (CAS-No.) 112945-52-5 | 1 - 5 | Substance with a national occupational exposure limit |
| Glycerol, propoxylated, esters with acrylic acid | (CAS-No.) 52408-84-1 (EC-No.) 500-114-5 | 1 - 5 | Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412 |
| Carbon black | (CAS-No.) 1333-86-4 (EC-No.) 215-609-9 | 1 - 5 | Substance with a national occupational exposure limit |
| 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one | (CAS-No.) 71868-10-5 (EC-No.) ELINCS 400-600-6 | 1 - 5 | Acute Tox. 4, H302 Repr. 1B, H360FD Aquatic Chronic 2, H411 Repr. 1B, H360FD |
| mequinol | (CAS-No.) 150-76-5 (EC-No.) 205-769-8 | < 0.5 | Acute Tox. 4, H302 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412 |
| Propylidynetrimethanol, ethoxylated, esters with acrylic acid | (CAS-No.) 28961-43-5 (EC-No.) 500-066-5 | < 1 | Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 3, H412 |
| diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | (CAS-No.) 75980-60-8 (EC-No.) 278-355-8 | < 1 | Skin Sens. 1B, H317 Repr. 1B, H360Fd Aquatic Chronic 2, H411 Repr. 1B, H360Fd |

Please see section 16 for the full text of any H statements referred to in this section

For information on ingredient occupational exposure limits or PBT or vPvB status, see sections 8 and 12 of this SDS

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

The most important symptoms and effects based on the GB CLP classification include:

Allergic skin reaction (redness, swelling, blistering, and itching). Serious irritation to the eyes (significant redness, swelling,

pain, tearing, and impaired vision). Target organ effects. 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. 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

Aldehydes.
formaldehyde
Carbon monoxide
Carbon dioxide.

Condition

During combustion.
During combustion.
During combustion.
During combustion.

5.3. Advice 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 vapours, 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 dykes 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 authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and Safety Data Sheet. Seal the container. Dispose of collected material as soon as possible.

6.4. Reference to other sections

Refer to Section 8 and Section 13 for more information

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/vapours/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 oxidising agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (eg. gloves, respirators...) 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 oxidising agents. Store away from areas where product may come into contact with food or pharmaceuticals.

7.3. Specific end use(s)

See information in Section 7.1 and 7.2 for handling and storage recommendations. See Section 8 for exposure controls and personal protection recommendations.

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 | CAS Nbr | Agency | Limit type | Additional comments |
|----------------------------------|-------------|-------------------------|---|---------------------|
| Silicon dioxide | 112945-52-5 | UK HSE | TWA(as respirable dust):2.4 mg/m ³ ;TWA(as inhalable dust):6 mg/m ³ | |
| Carbon black | 1333-86-4 | UK HSE | TWA: 3.5 mg/m ³ ; STEL: 7 mg/m ³ | |
| 1-Vinylhexahydro-2H-azepin-2-one | 2235-00-9 | Manufacturer determined | TWA(8 hours):0.1 ppm(0.57 mg/m ³) | |

UK HSE : UK Health and Safety Commission

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

Biological limit values

No biological limit values exist for any of the components listed in Section 3 of this safety data sheet.

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/vapours/spray. If ventilation is not adequate, use respiratory protection equipment. Provide appropriate 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.

Applicable Norms/Standards

Use eye protection conforming to EN 166

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:

| Material | Thickness (mm) | Breakthrough Time |
|------------------|-----------------------|--------------------------|
| Polymer laminate | No data available | No data available |

Applicable Norms/Standards

Use gloves tested to EN 374

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 vapours and particulates

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

Applicable Norms/Standards

Use a respirator conforming to EN 140 or EN 136: filter types A & P

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|-------------------------------------|--|
| Physical state | Liquid. |
| Specific Physical Form: | Liquid. |
| Colour | Black |
| Odor | Slight Acrylate |
| Odour threshold | <i>No data available.</i> |
| Melting point/freezing point | <i>Not applicable.</i> |
| Boiling point/boiling range | > 148.9 °C |
| Flammability | Not applicable. |
| Flammable Limits(LEL) | <i>No data available.</i> |
| Flammable Limits(UEL) | <i>No data available.</i> |
| Flash point | > 93.3 °C [Test Method: Pensky-Martens Closed Cup] |
| Autoignition temperature | <i>No data available.</i> |
| Decomposition temperature | <i>No data available.</i> |
| pH | <i>substance/mixture is non-soluble (in water)</i> |
| Kinematic Viscosity | <i>No data available.</i> |
| Water solubility | Negligible |
| Solubility- non-water | <i>No data available.</i> |

| | |
|--|--------------------------------------|
| Partition coefficient: n-octanol/water | <i>No data available.</i> |
| Vapour pressure | < 160 Pa [@ 20 °C] |
| Density | approximately 1.3 g/ml |
| Relative density | approximately 1.3 [Ref Std: WATER=1] |
| Relative Vapour Density | <i>No data available.</i> |
| Particle Characteristics | <i>Not applicable.</i> |

9.2. Other information

9.2.2 Other safety characteristics

EU Volatile Organic Compounds

No data available.

Evaporation rate

< 1 [Ref Std:BUOAC=1]

Percent volatile

1 - 5 % weight

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 polymerisation 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 oxidising 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 agree with the material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 11 are based on UN GHS calculation rules and classifications derived from 3M assessments.

11.1. Information on hazard classes as defined in the retained CLP Regulation (EU) No 1272/2008, as amended for Great Britain.

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 localised 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 diarrhoea. 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 coloured skin (cyanosis), sputum production, changes in lung function tests, and 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.

Additional information:

Persons previously sensitised to isocyanates may develop a cross-sensitisation 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 |
| 2-Phenoxyethyl acrylate | Dermal | Rat | LD50 > 2,000 mg/kg |
| 2-Phenoxyethyl 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 |
| 1-Vinylhexahydro-2H-azepin-2-one | Dermal | Rabbit | LD50 1,700 mg/kg |
| 1-Vinylhexahydro-2H-azepin-2-one | 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 |
| Glycerol, propoxylated, esters with acrylic acid | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| Glycerol, propoxylated, esters with acrylic acid | Ingestion | Rat | LD50 > 2,000 mg/kg |
| 2-(2-Ethoxyethoxy)ethyl acrylate | Dermal | | LD50 estimated to be 1,000 - 2,000 mg/kg |
| 2-(2-Ethoxyethoxy)ethyl acrylate | Ingestion | Rat | LD50 1,860 mg/kg |

| | | | |
|---|--------------------------------|------------------------|------------------------------------|
| 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone | Dermal | Rat | LD50 > 2,000 mg/kg |
| 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone | Ingestion | Rat | LD50 > 5,000 mg/kg |
| 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one | Dermal | Rat | LD50 > 2,000 mg/kg |
| 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one | 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 |
| Propylidynetrimethanol, ethoxylated, esters with acrylic acid | Dermal | Rabbit | LD50 > 13,200 mg/kg |
| Propylidynetrimethanol, ethoxylated, esters with acrylic acid | Ingestion | Rat | LD50 > 2,000 mg/kg |
| diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | Dermal | Professional judgement | LD50 estimated to be > 5,000 mg/kg |
| diphenyl(2,4,6-trimethylbenzoyl)phosphine 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 |
| mequinol | Dermal | Rat | LD50 > 2,000 mg/kg |
| mequinol | Ingestion | Rat | LD50 1,630 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|---|---------|---------------------------|
| 2-Phenoxyethyl acrylate | Rabbit | No significant irritation |
| 1-Vinylhexahydro-2H-azepin-2-one | Rabbit | Minimal irritation |
| Carbon black | Rabbit | No significant irritation |
| Synthetic amorphous silica, fumed, crystalline-free | Rabbit | No significant irritation |
| Glycerol, propoxylated, esters with acrylic acid | Rabbit | Minimal irritation |
| 2-(2-Ethoxyethoxy)ethyl acrylate | Rabbit | Irritant |
| 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone | Rabbit | No significant irritation |
| 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one | Rabbit | No significant irritation |
| 2-phenoxyethanol | Rabbit | No significant irritation |
| Propylidynetrimethanol, ethoxylated, esters with acrylic acid | Rabbit | Minimal irritation |
| diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | Rabbit | No significant irritation |
| octamethylcyclotetrasiloxane | Rabbit | No significant irritation |
| mequinol | Rabbit | Mild irritant |

Serious Eye Damage/Irritation

| Name | Species | Value |
|---|---------|---------------------------|
| 2-Phenoxyethyl acrylate | Rabbit | No significant irritation |
| 1-Vinylhexahydro-2H-azepin-2-one | Rabbit | Severe irritant |
| Carbon black | Rabbit | No significant irritation |
| Synthetic amorphous silica, fumed, crystalline-free | Rabbit | No significant irritation |
| Glycerol, propoxylated, esters with acrylic acid | Rabbit | Severe irritant |
| 2-(2-Ethoxyethoxy)ethyl acrylate | Rabbit | Severe irritant |
| 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone | Rabbit | No significant irritation |
| 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one | Rabbit | No significant irritation |
| 2-phenoxyethanol | Rabbit | Corrosive |
| Propylidynetrimethanol, ethoxylated, esters with acrylic acid | Rabbit | Severe irritant |
| diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | Rabbit | No significant irritation |
| octamethylcyclotetrasiloxane | Rabbit | No significant irritation |
| mequinol | Rabbit | Severe irritant |

Skin Sensitisation

| Name | Species | Value |
|-------------------------|---------|-------------|
| 2-Phenoxyethyl acrylate | Guinea | Sensitising |

| | | |
|---|------------------|----------------|
| | pig | |
| 1-Vinylhexahydro-2H-azepin-2-one | Mouse | Sensitising |
| Synthetic amorphous silica, fumed, crystalline-free | Human and animal | Not classified |
| Glycerol, propoxylated, esters with acrylic acid | Mouse | Sensitising |
| 2-(2-Ethoxyethoxy)ethyl acrylate | Guinea pig | Sensitising |
| 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone | Guinea pig | Not classified |
| 2-phenoxyethanol | Guinea pig | Not classified |
| Propylidynetrimethanol, ethoxylated, esters with acrylic acid | Guinea pig | Sensitising |
| diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | Mouse | Sensitising |
| octamethylcyclotetrasiloxane | Human and animal | Not classified |
| mequinol | Guinea pig | Sensitising |

Respiratory Sensitisation

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

Germ Cell Mutagenicity

| Name | Route | Value |
|---|----------|--|
| 1-Vinylhexahydro-2H-azepin-2-one | 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 |
| Glycerol, propoxylated, esters with acrylic acid | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone | In Vitro | Not mutagenic |
| 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone | In vivo | Not mutagenic |
| 2-phenoxyethanol | In Vitro | Not mutagenic |
| 2-phenoxyethanol | In vivo | Not mutagenic |
| Propylidynetrimethanol, ethoxylated, esters with acrylic acid | In vivo | Not mutagenic |
| Propylidynetrimethanol, ethoxylated, esters with acrylic acid | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| diphenyl(2,4,6-trimethylbenzoyl)phosphine 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 |
| mequinol | In vivo | Not mutagenic |
| mequinol | 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 |
| mequinol | Dermal | Multiple animal species | Not carcinogenic |

| | | | |
|----------|-----------|-------------------------|--|
| mequinol | 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 |
|---|------------|--|---------|-----------------------|--------------------------|
| 2-Phenoxyethyl acrylate | Ingestion | Not classified for male reproduction | Rat | NOAEL 800 mg/kg/day | 43 days |
| 2-Phenoxyethyl acrylate | Ingestion | Toxic to female reproduction | Rat | NOAEL 300 mg/kg/day | premating into lactation |
| 2-Phenoxyethyl 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 |
| Glycerol, propoxylated, esters with acrylic acid | Ingestion | Not classified for female reproduction | Rat | NOAEL 750 mg/kg/day | premating into lactation |
| Glycerol, propoxylated, esters with acrylic acid | Ingestion | Not classified for male reproduction | Rat | NOAEL 750 mg/kg/day | 29 days |
| Glycerol, propoxylated, esters with acrylic acid | Ingestion | Not classified for development | Rat | NOAEL 1,000 mg/kg/day | during organogenesis |
| 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone | Ingestion | Not classified for female reproduction | Rat | NOAEL 300 mg/kg/day | 1 generation |
| 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone | Ingestion | Not classified for male reproduction | Rat | NOAEL 300 mg/kg/day | 1 generation |
| 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone | Ingestion | Toxic to development | Rat | NOAEL 30 mg/kg/day | 1 generation |
| 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one | Ingestion | Toxic to female reproduction | Rat | LOAEL 40 mg/kg/day | 1 generation |
| 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one | 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 |
| Propylidynetrimethanol, ethoxylated, esters with acrylic acid | Ingestion | Not classified for female reproduction | Rat | NOAEL 1,000 mg/kg/day | premating into lactation |
| Propylidynetrimethanol, ethoxylated, esters with acrylic acid | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,000 mg/kg/day | 29 days |
| Propylidynetrimethanol, ethoxylated, esters with acrylic acid | Ingestion | Not classified for development | Rat | NOAEL 1,000 mg/kg/day | during organogenesis |
| diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | Ingestion | Toxic to development | Rat | NOAEL 150 mg/kg/day | during gestation |
| diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | Ingestion | Toxic to female reproduction | Rat | NOAEL 200 mg/kg/day | premating into lactation |
| diphenyl(2,4,6-trimethylbenzoyl)phosphine 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 | 2 generation |

| | | | | | |
|------------------------------|------------|--|--------|---------------------|--------------------------|
| | | | | mg/l | |
| 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 |
| mequinol | Ingestion | Not classified for female reproduction | Rat | NOAEL 300 mg/kg/day | premating into lactation |
| mequinol | Ingestion | Not classified for male reproduction | Rat | NOAEL 300 mg/kg/day | 28 days |
| mequinol | Ingestion | Not classified for development | Rat | NOAEL 200 mg/kg/day | during gestation |

Target Organ(s)

Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---|------------|------------------------|--|-------------------------|---------------------|-------------------|
| 1-Vinylhexahydro-2H-azepin-2-one | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL Not available | |
| Glycerol, propoxylated, esters with acrylic acid | 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 | |
| Propylidynetrimethanol, ethoxylated, esters with acrylic acid | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL not available | |
| mequinol | 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 |
|---|------------|---|--|---------|---------------------|-----------------------|
| 1-Vinylhexahydro-2H-azepin-2-one | Inhalation | respiratory system | Causes damage to organs through prolonged or repeated exposure | Rat | NOAEL 0.001 mg/l | 28 days |
| 1-Vinylhexahydro-2H-azepin-2-one | Inhalation | blood liver kidney and/or bladder eyes | Not classified | Rat | NOAEL 0.18 mg/l | 90 days |
| 1-Vinylhexahydro-2H-azepin-2-one | 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 silicosis | Not classified | Human | NOAEL Not available | occupational exposure |
| Glycerol, propoxylated, esters with acrylic acid | Dermal | heart | Not classified | Rabbit | NOAEL 500 mg/kg/day | 2 weeks |
| Glycerol, propoxylated, esters with acrylic acid | Dermal | skin | Not classified | Rabbit | LOAEL 500 mg/kg/day | 2 weeks |
| Glycerol, propoxylated, esters with acrylic acid | Dermal | liver nervous system kidney and/or bladder respiratory system | Not classified | Rabbit | NOAEL 500 mg/kg/day | 2 weeks |
| Glycerol, propoxylated, esters with acrylic acid | Ingestion | liver kidney and/or bladder | Not classified | Rat | NOAEL 750 mg/kg/day | 29 days |
| Glycerol, propoxylated, esters with acrylic acid | Ingestion | gastrointestinal tract | Not classified | Rat | NOAEL 150 mg/kg/day | 90 days |
| Glycerol, propoxylated, esters with acrylic acid | Ingestion | immune system | Not classified | Rat | NOAEL 750 mg/kg/day | 29 days |
| Glycerol, propoxylated, esters with acrylic acid | Ingestion | endocrine system hematopoietic | Not classified | Rat | NOAEL 375 mg/kg/day | 90 days |

| | | | | | | |
|---|------------|---|--|--------|-----------------------|--------------|
| | | system nervous system eyes | | | | |
| 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone | Ingestion | endocrine system hematopoietic system liver kidney and/or bladder | Not classified | Rat | NOAEL 500 mg/kg/day | 28 days |
| 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one | 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 |
| 2-phenoxyethanol | Dermal | skin hematopoietic system liver eyes | Not classified | Rabbit | NOAEL 500 mg/kg/day | 13 weeks |
| 2-phenoxyethanol | Ingestion | heart endocrine system hematopoietic system liver immune system nervous system kidney and/or bladder respiratory system | Not classified | Rat | NOAEL 1,514 mg/kg/day | 13 weeks |
| Propylidynetrimethanol, ethoxylated, esters with acrylic acid | Ingestion | gastrointestinal tract | Not classified | Rat | NOAEL 100 mg/kg/day | 29 days |
| Propylidynetrimethanol, ethoxylated, esters with acrylic acid | Ingestion | endocrine system hematopoietic system liver immune system nervous system kidney and/or bladder | Not classified | Rat | NOAEL 1,000 mg/kg/day | 29 days |
| diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | Ingestion | skin blood liver kidney and/or bladder 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 immune system 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 |
| mequinol | Ingestion | gastrointestinal tract | Not classified | Rat | LOAEL 300 mg/kg/day | 28 days |
| mequinol | Ingestion | liver immune system | Not classified | Rat | NOAEL 300 mg/kg/day | 28 days |
| mequinol | Ingestion | kidney and/or bladder | Not classified | Rat | LOAEL 300 mg/kg/day | 28 days |
| mequinol | Ingestion | heart endocrine system hematopoietic system nervous system respiratory system | Not classified | Rat | NOAEL 300 mg/kg/day | 28 days |

Aspiration Hazard

For the component/components, either no data is currently available or the data is 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.

11.2. Information on other hazards

This material does not contain any substances that are assessed to be an endocrine disruptor for human health.

SECTION 12: Ecological information

The information below may not agree with the material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 12 are based on UN GHS calculation rules and classifications derived from 3M assessments.

12.1. Toxicity

No product test data available.

| Material | CAS # | Organism | Type | Exposure | Test endpoint | Test result |
|--|--------------|------------------|---|----------|--------------------------------|-------------|
| 2-Phenoxyethyl acrylate | 48145-04-6 | Activated sludge | Experimental | 3 hours | EC50 | 177 mg/l |
| 2-Phenoxyethyl acrylate | 48145-04-6 | Golden Orfe | Experimental | 96 hours | LC50 | 10 mg/l |
| 2-Phenoxyethyl acrylate | 48145-04-6 | Green algae | Experimental | 72 hours | EC50 | 4.4 mg/l |
| 2-Phenoxyethyl acrylate | 48145-04-6 | Water flea | Experimental | 48 hours | EC50 | 1.21 mg/l |
| 2-Phenoxyethyl acrylate | 48145-04-6 | Green algae | Experimental | 72 hours | EC10 | 0.71 mg/l |
| Methacrylate polymer | Trade Secret | N/A | Data not available or insufficient for classification | N/A | N/A | N/A |
| 1-Vinylhexahydro-2H-azepin-2-one | 2235-00-9 | Bacteria | Experimental | 17 hours | EC50 | 622 mg/l |
| 1-Vinylhexahydro-2H-azepin-2-one | 2235-00-9 | Green algae | Experimental | 72 hours | ErC50 | >100 mg/l |
| 1-Vinylhexahydro-2H-azepin-2-one | 2235-00-9 | Water flea | Experimental | 48 hours | EC50 | >100 mg/l |
| 1-Vinylhexahydro-2H-azepin-2-one | 2235-00-9 | Zebra Fish | Experimental | 96 hours | LC50 | 307 mg/l |
| 1-Vinylhexahydro-2H-azepin-2-one | 2235-00-9 | Green algae | Experimental | 72 hours | NOEC | 25 mg/l |
| Aliphatic urethane acrylate | Trade Secret | N/A | Data not available or insufficient for classification | N/A | N/A | N/A |
| Glycerol, propoxylated, esters with acrylic acid | 52408-84-1 | Activated sludge | Experimental | 3 hours | EC20 | 507 mg/l |
| Glycerol, propoxylated, esters with acrylic acid | 52408-84-1 | Green algae | Experimental | 72 hours | ErC50 | 12.2 mg/l |
| Glycerol, propoxylated, esters with acrylic acid | 52408-84-1 | Water flea | Experimental | 48 hours | EC50 | 91.4 mg/l |
| Glycerol, propoxylated, esters with acrylic acid | 52408-84-1 | Zebra Fish | Experimental | 96 hours | LC50 | 5.74 mg/l |
| Glycerol, propoxylated, esters with acrylic acid | 52408-84-1 | Green algae | Experimental | 72 hours | NOEC | 0.921 mg/l |
| 2-benzyl-2-dimethylamino-4'-morpholinobutyrop | 119313-12-1 | Green algae | Experimental | 72 hours | No tox obs at lmt of water sol | >100 mg/l |

| | | | | | | |
|--|-------------|------------------|--------------|------------|-----------------------------------|---------------------------|
| henone | | | | | | |
| 2-benzyl-2-dimethylamino-4'-morpholinobutyrop henone | 119313-12-1 | Water flea | Experimental | 24 hours | No tox obs at lmt of water sol | >100 mg/l |
| 2-benzyl-2-dimethylamino-4'-morpholinobutyrop henone | 119313-12-1 | Zebra Fish | Experimental | 96 hours | LC50 | 0.46 mg/l |
| 2-benzyl-2-dimethylamino-4'-morpholinobutyrop henone | 119313-12-1 | Water flea | Experimental | 21 days | No tox obs at lmt of water sol | 100 mg/l |
| 2-benzyl-2-dimethylamino-4'-morpholinobutyrop henone | 119313-12-1 | Activated sludge | Experimental | 30 minutes | EC50 | >100 mg/l |
| 2-benzyl-2-dimethylamino-4'-morpholinobutyrop henone | 119313-12-1 | Cucumber | Experimental | 16 days | EC50 | >316.2 mg/kg (Dry Weight) |
| 2-benzyl-2-dimethylamino-4'-morpholinobutyrop henone | 119313-12-1 | Redworm | Experimental | 14 days | LC50 | >1,000 mg/kg (Dry Weight) |
| 2-methyl-1-(4-methylthiophenyl)- 2-morpholinopropan- 1-one | 71868-10-5 | Activated sludge | Experimental | 3 hours | EC50 | >100 mg/l |
| 2-methyl-1-(4-methylthiophenyl)- 2-morpholinopropan- 1-one | 71868-10-5 | Green algae | Experimental | 72 hours | ErC50 | 1.6 mg/l |
| 2-methyl-1-(4-methylthiophenyl)- 2-morpholinopropan- 1-one | 71868-10-5 | Water flea | Experimental | 24 hours | EC50 | 15.3 mg/l |
| 2-methyl-1-(4-methylthiophenyl)- 2-morpholinopropan- 1-one | 71868-10-5 | Zebra Fish | Experimental | 96 hours | LC50 | 9 mg/l |
| 2-methyl-1-(4-methylthiophenyl)- 2-morpholinopropan- 1-one | 71868-10-5 | Green algae | Experimental | 72 hours | ErC10 | 0.92 mg/l |
| 2-methyl-1-(4-methylthiophenyl)- 2-morpholinopropan- 1-one | 71868-10-5 | Water flea | Experimental | 21 days | EC10 | 1.75 mg/l |
| 2-phenoxyethanol | 122-99-6 | Activated sludge | Experimental | 30 minutes | EC50 | >1,000 mg/l |
| 2-phenoxyethanol | 122-99-6 | Fathead minnow | Experimental | 96 hours | LC50 | 344 mg/l |
| 2-phenoxyethanol | 122-99-6 | Green algae | Experimental | 72 hours | EC50 | >100 mg/l |
| 2-phenoxyethanol | 122-99-6 | Scud | Experimental | 96 hours | LC50 | 357 mg/l |
| 2-phenoxyethanol | 122-99-6 | Water flea | Experimental | 48 hours | EC50 | >500 mg/l |
| 2-phenoxyethanol | 122-99-6 | Fathead minnow | Experimental | 34 days | NOEC | 24 mg/l |

| | | | | | | |
|---|-------------|-------------------|--------------------|----------|--------------------------------|--------------------------|
| 2-phenoxyethanol | 122-99-6 | Green algae | Experimental | 72 hours | NOEC | 46 mg/l |
| 2-phenoxyethanol | 122-99-6 | Water flea | Experimental | 21 days | NOEC | 9.43 mg/l |
| mequinol | 150-76-5 | Ciliated protozoa | Experimental | 40 hours | IC50 | 171.4 mg/l |
| mequinol | 150-76-5 | Green algae | Experimental | 72 hours | ErC50 | 54.7 mg/l |
| mequinol | 150-76-5 | Rainbow trout | Experimental | 96 hours | LC50 | 28.5 mg/l |
| mequinol | 150-76-5 | Water flea | Experimental | 48 hours | EC50 | 2.2 mg/l |
| mequinol | 150-76-5 | Green algae | Experimental | 72 hours | NOEC | 2.96 mg/l |
| mequinol | 150-76-5 | Water flea | Experimental | 21 days | NOEC | 0.68 mg/l |
| Carbon black | 1333-86-4 | Green algae | Experimental | 72 hours | No tox obs at lmt of water sol | >100 mg/l |
| Carbon black | 1333-86-4 | Zebra Fish | Experimental | 96 hours | No tox obs at lmt of water sol | >100 mg/l |
| Carbon black | 1333-86-4 | Green algae | Experimental | 72 hours | No tox obs at lmt of water sol | 100 mg/l |
| Carbon black | 1333-86-4 | Activated sludge | Experimental | 3 hours | NOEC | >800 mg/l |
| 2-(2-Ethoxyethoxy)ethyl acrylate | 7328-17-8 | Golden Orfe | Experimental | 96 hours | LC50 | 10 mg/l |
| 2-(2-Ethoxyethoxy)ethyl acrylate | 7328-17-8 | Green algae | Experimental | 72 hours | ErC50 | 3.2 mg/l |
| 2-(2-Ethoxyethoxy)ethyl acrylate | 7328-17-8 | Water flea | Experimental | 48 hours | EC50 | 10.56 mg/l |
| 2-(2-Ethoxyethoxy)ethyl acrylate | 7328-17-8 | Green algae | Experimental | 72 hours | NOEC | <1 mg/l |
| 2-(2-Ethoxyethoxy)ethyl acrylate | 7328-17-8 | Activated sludge | Experimental | 3 hours | EC50 | 770 mg/l |
| octamethylcyclotetrasiloxane | 556-67-2 | Blackworm | Experimental | 28 days | NOEC | 0.73 mg/kg (Dry Weight) |
| octamethylcyclotetrasiloxane | 556-67-2 | Midge | Experimental | 14 days | LC50 | >170 mg/kg (Dry Weight) |
| octamethylcyclotetrasiloxane | 556-67-2 | Mysid Shrimp | Experimental | 96 hours | LC50 | >0.0091 mg/l |
| octamethylcyclotetrasiloxane | 556-67-2 | Rainbow trout | Experimental | 96 hours | LC50 | >0.022 mg/l |
| octamethylcyclotetrasiloxane | 556-67-2 | Water flea | Experimental | 48 hours | EC50 | >0.015 mg/l |
| octamethylcyclotetrasiloxane | 556-67-2 | Rainbow trout | Experimental | 93 days | NOEC | 0.0044 mg/l |
| octamethylcyclotetrasiloxane | 556-67-2 | Water flea | Experimental | 21 days | NOEC | 0.015 mg/l |
| octamethylcyclotetrasiloxane | 556-67-2 | Activated sludge | Experimental | 3 hours | EC50 | >10,000 mg/l |
| Synthetic amorphous silica, fumed, crystalline-free | 112945-52-5 | Green algae | Analogous Compound | 72 hours | ErC50 | >173.1 mg/l |
| Synthetic amorphous silica, fumed, crystalline-free | 112945-52-5 | Sediment organism | Analogous Compound | 96 hours | EC50 | 8,500 mg/kg (Dry Weight) |
| Synthetic amorphous silica, fumed, crystalline-free | 112945-52-5 | Water flea | Analogous Compound | 24 hours | EL50 | >10,000 mg/l |

| | | | | | | |
|---|-------------|------------------|--------------------|----------|-------|--------------|
| Synthetic amorphous silica, fumed, crystalline-free | 112945-52-5 | Zebra Fish | Analogous Compound | 96 hours | LL50 | >10,000 mg/l |
| Synthetic amorphous silica, fumed, crystalline-free | 112945-52-5 | Green algae | Analogous Compound | 72 hours | NOEC | 173.1 mg/l |
| Synthetic amorphous silica, fumed, crystalline-free | 112945-52-5 | Water flea | Analogous Compound | 21 days | NOEC | 68 mg/l |
| Synthetic amorphous silica, fumed, crystalline-free | 112945-52-5 | Activated sludge | Experimental | 3 hours | EC50 | >1,000 mg/l |
| diphenyl(2,4,6-trimethylbenzoyl)p hosphine oxide | 75980-60-8 | Activated sludge | Experimental | 3 hours | EC20 | >1,000 mg/l |
| diphenyl(2,4,6-trimethylbenzoyl)p hosphine oxide | 75980-60-8 | Common Carp | Experimental | 96 hours | LC50 | 1.4 mg/l |
| diphenyl(2,4,6-trimethylbenzoyl)p hosphine oxide | 75980-60-8 | Green algae | Experimental | 72 hours | EC50 | >2.01 mg/l |
| diphenyl(2,4,6-trimethylbenzoyl)p hosphine oxide | 75980-60-8 | Water flea | Experimental | 48 hours | EC50 | 3.53 mg/l |
| diphenyl(2,4,6-trimethylbenzoyl)p hosphine oxide | 75980-60-8 | Green algae | Experimental | 72 hours | EC10 | 1.56 mg/l |
| Propylidynetrimeth anol, ethoxylated, esters with acrylic acid | 28961-43-5 | Green algae | Experimental | 72 hours | ErC50 | 2.2 mg/l |
| Propylidynetrimeth anol, ethoxylated, esters with acrylic acid | 28961-43-5 | Water flea | Experimental | 48 hours | EC50 | 70.7 mg/l |
| Propylidynetrimeth anol, ethoxylated, esters with acrylic acid | 28961-43-5 | Zebra Fish | Experimental | 96 hours | LC50 | 1.95 mg/l |
| Propylidynetrimeth anol, ethoxylated, esters with acrylic acid | 28961-43-5 | Green algae | Experimental | 72 hours | ErC10 | 0.323 mg/l |
| Propylidynetrimeth anol, ethoxylated, esters with acrylic acid | 28961-43-5 | Activated sludge | Experimental | 3 hours | EC20 | 292 mg/l |

12.2. Persistence and degradability

| Material | CAS Nbr | Test type | Duration | Study Type | Test result | Protocol |
|----------------------------------|--------------|-----------------------------------|----------|--------------------------------|-----------------------|--------------------------------|
| 2-Phenoxyethyl acrylate | 48145-04-6 | Experimental Biodegradation | 28 days | BOD | 22.3 %BOD/ThOD | OECD 301D - Closed bottle test |
| 2-Phenoxyethyl acrylate | 48145-04-6 | Estimated Photolysis | | Photolytic half-life (in air) | 9.7 hours (t 1/2) | |
| Methacrylate polymer | Trade Secret | Data not available - insufficient | N/A | N/A | N/A | N/A |
| 1-Vinylhexahydro-2H-azepin-2-one | 2235-00-9 | Experimental Biodegradation | 28 days | Dissolv. Organic Carbon Deplet | 30-40 %removal of DOC | OECD 301A - DOC Die Away Test |
| 1-Vinylhexahydro-2H-azepin-2-one | 2235-00-9 | Experimental Biodegradation | | Dissolv. Organic Carbon Deplet | 98 %removal of DOC | OECD 302B Zahn-Wellens/EVPA |
| 1-Vinylhexahydro-2H-azepin-2-one | 2235-00-9 | Experimental Hydrolysis | | Hydrolytic half-life (pH 7) | >1 years (t 1/2) | OECD 111 Hydrolysis func of pH |

| | | | | | | |
|--|--------------|---|---------|--------------------------------|--------------------------------------|-------------------------------------|
| 1-Vinylhexahydro-2H-azepin-2-one | 2235-00-9 | Experimental Hydrolysis | | Hydrolytic half-life acidic pH | 6.5 hours (t 1/2) | OECD 111 Hydrolysis func of pH |
| Aliphatic urethane acrylate | Trade Secret | Data not availbl-insufficient | N/A | N/A | N/A | N/A |
| Glycerol, propoxylated, esters with acrylic acid | 52408-84-1 | Experimental Biodegradation | 28 days | CO2 evolution | 72-85 %CO2 evolution/THCO2 evolution | OECD 301B - Modified sturm or CO2 |
| 2-benzyl-2-dimethylamino-4'-morpholinobutyrop henone | 119313-12-1 | Experimental Biodegradation | 28 days | CO2 evolution | 3 %CO2 evolution/THCO2 evolution | OECD 301B - Modified sturm or CO2 |
| 2-benzyl-2-dimethylamino-4'-morpholinobutyrop henone | 119313-12-1 | Experimental Hydrolysis | | Hydrolytic half-life (pH 7) | >1 years (t 1/2) | |
| 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one | 71868-10-5 | Experimental Biodegradation | 28 days | CO2 evolution | ≤1 %CO2 evolution/THCO2 evolution | OECD 301B - Modified sturm or CO2 |
| 2-phenoxyethanol | 122-99-6 | Experimental Biodegradation | 28 days | BOD | 90 %BOD/ThOD | OECD 301F - Manometric respirometry |
| mequinol | 150-76-5 | Experimental Biodegradation - Anaerobic | 28 days | Percent degraded | >90 %degraded | |
| mequinol | 150-76-5 | Experimental Biodegradation | 28 days | BOD | 86 %BOD/ThOD | OECD 301C - MITI test (I) |
| Carbon black | 1333-86-4 | Data not availbl-insufficient | N/A | N/A | N/A | N/A |
| 2-(2-Ethoxyethoxy)ethyl acrylate | 7328-17-8 | Experimental Biodegradation | 28 days | CO2 evolution | 98 %CO2 evolution/THCO2 evolution | OECD 301B - Modified sturm or CO2 |
| 2-(2-Ethoxyethoxy)ethyl acrylate | 7328-17-8 | Experimental Hydrolysis | | Hydrolytic half-life (pH 7) | 313 days (t 1/2) | OECD 111 Hydrolysis func of pH |
| 2-(2-Ethoxyethoxy)ethyl acrylate | 7328-17-8 | Experimental Hydrolysis | | Hydrolytic half-life basic pH | 4.65 days (t 1/2) | OECD 111 Hydrolysis func of pH |
| octamethylcyclotetr asiloxane | 556-67-2 | Experimental Biodegradation | 29 days | CO2 evolution | 3.7 %CO2 evolution/THCO2 evolution | OECD 310 CO2 Headspace |
| octamethylcyclotetr asiloxane | 556-67-2 | Experimental Photolysis | | Photolytic half-life (in air) | 31 days (t 1/2) | |
| octamethylcyclotetr asiloxane | 556-67-2 | Experimental Hydrolysis | | Hydrolytic half-life (pH 7) | 69.3-144 hours (t 1/2) | OECD 111 Hydrolysis func of pH |
| Synthetic amorphous silica, fumed, crystalline-free | 112945-52-5 | Data not availbl-insufficient | N/A | N/A | N/A | N/A |
| diphenyl(2,4,6-trimethylbenzoyl)p hosphine oxide | 75980-60-8 | Experimental Biodegradation | 28 days | BOD | ≤10 %BOD/ThOD | OECD 301F - Manometric respirometry |
| Propylidynetrimeth anol, ethoxylated, esters with acrylic acid | 28961-43-5 | Experimental Biodegradation | 28 days | CO2 evolution | 60 %CO2 evolution/THCO2 evolution | OECD 301B - Modified sturm or CO2 |

12.3 : Bioaccumulative potential

| Material | Cas No. | Test type | Duration | Study Type | Test result | Protocol |
|-------------------------|--------------|---|----------|------------|-------------|----------|
| 2-Phenoxyethyl acrylate | 48145-04-6 | Experimental Bioconcentration | | Log Kow | 2.58 | |
| Methacrylate polymer | Trade Secret | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |

| | | | | | | |
|---|--------------|---|---------|------------------------|-------|--------------------------------|
| 1-Vinylhexahydro-2H-azepin-2-one | 2235-00-9 | Experimental Bioconcentration | | Log Kow | 1.2 | similar to OECD 107 |
| Aliphatic urethane acrylate | Trade Secret | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Glycerol, propoxylated, esters with acrylic acid | 52408-84-1 | Experimental Bioconcentration | | Log Kow | 2.52 | OECD 107 log Kow shke flsk mtd |
| 2-benzyl-2-dimethylamino-4'-morpholinobutyrop henone | 119313-12-1 | Experimental Bioconcentration | | Log Kow | 2.91 | OECD 107 log Kow shke flsk mtd |
| 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one | 71868-10-5 | Experimental BCF - Fish | 56 days | Bioaccumulation factor | <10 | |
| 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one | 71868-10-5 | Experimental Bioconcentration | | Log Kow | 3.09 | |
| 2-phenoxyethanol | 122-99-6 | Experimental Bioconcentration | | Log Kow | 1.2 | EC A.8 Partition Coefficient |
| mequinol | 150-76-5 | Experimental Bioconcentration | | Log Kow | 1.58 | |
| Carbon black | 1333-86-4 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| 2-(2-Ethoxyethoxy)ethyl acrylate | 7328-17-8 | Experimental Bioconcentration | | Log Kow | 1.105 | OECD 117 log Kow HPLC method |
| octamethylcyclotetrasiloxane | 556-67-2 | Experimental BCF - Fish | 28 days | Bioaccumulation factor | 12400 | 40CFR 797.1520-Fish Bioaccumm |
| octamethylcyclotetrasiloxane | 556-67-2 | Experimental Bioconcentration | | Log Kow | 6.49 | OECD 123 log Kow slow stir |
| Synthetic amorphous silica, fumed, crystalline-free | 112945-52-5 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| diphenyl(2,4,6-trimethylbenzoyl)p hosphine oxide | 75980-60-8 | Experimental BCF - Fish | 56 days | Bioaccumulation factor | ≤40 | |
| Propylidynetrimethanol, ethoxylated, esters with acrylic acid | 28961-43-5 | Experimental Bioconcentration | | Log Kow | 2.89 | OECD 107 log Kow shke flsk mtd |

12.4. Mobility in soil

| Material | Cas No. | Test type | Study Type | Test result | Protocol |
|--|-------------|-------------------------------|------------|-------------|--------------------------------|
| 2-Phenoxyethyl acrylate | 48145-04-6 | Estimated Mobility in Soil | Koc | 220 l/kg | Episuite™ |
| 1-Vinylhexahydro-2H-azepin-2-one | 2235-00-9 | Modeled Mobility in Soil | Koc | 47 l/kg | Episuite™ |
| Glycerol, propoxylated, esters with acrylic acid | 52408-84-1 | Experimental Mobility in Soil | Koc | 100 l/kg | OECD 121 Estim. of Koc by HPLC |
| 2-benzyl-2-dimethylamino-4'-morpholinobutyrop henone | 119313-12-1 | Experimental Mobility in Soil | Koc | 48,978 l/kg | OECD 121 Estim. of Koc by HPLC |
| 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan- | 71868-10-5 | Experimental Mobility in Soil | Koc | 626 l/kg | OECD 121 Estim. of Koc by HPLC |

| | | | | | |
|----------------------------------|-----------|-------------------------------|-----|-------------|--------------------------------|
| 1-one | | | | | |
| 2-phenoxyethanol | 122-99-6 | Experimental Mobility in Soil | Koc | 41 l/kg | OECD 121 Estim. of Koc by HPLC |
| mequinol | 150-76-5 | Experimental Mobility in Soil | Koc | 55.7 l/kg | |
| 2-(2-Ethoxyethoxy)ethyl acrylate | 7328-17-8 | Experimental Mobility in Soil | Koc | <17.8 l/kg | OECD 121 Estim. of Koc by HPLC |
| octamethylcyclotetrasiloxane | 556-67-2 | Experimental Mobility in Soil | Koc | 16,600 l/kg | OECD 106 Adsp-Desb Batch Equil |

12.5. Results of the PBT and vPvB assessment

| Ingredient | CAS Nbr | PBT/vPvB status |
|------------------------------|----------|------------------------------|
| octamethylcyclotetrasiloxane | 556-67-2 | Meets UK REACH PBT criteria |
| octamethylcyclotetrasiloxane | 556-67-2 | Meets UK REACH vPvB criteria |

12.6. Other adverse effects

This material does not contain any substances that are assessed to be an endocrine disruptor for environmental effects

SECTION 13: Disposal considerations

13.1 Waste treatment 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.

The coding of a waste stream is based on the application of the product by the consumer. Since this is out of the control of 3M, no waste code(s) for products after use will be provided. Please refer to the European Waste Code (EWC - 2000/532/EC and amendments) to assign the correct waste code to your waste stream. Ensure national and/or regional regulations are complied with and always use a licensed waste contractor.

EU waste code (product as sold)

080312* Waste ink containing dangerous substances

SECTION 14: Transportation information

| | Ground Transport (ADR) | Air Transport (IATA) | Marine Transport (IMDG) |
|--|---|---|---|
| 14.1 UN number | UN3082 | UN3082 | UN3082 |
| 14.2 UN proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(PHENOXY ETHYL ACRYLATE) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(PHENOXY ETHYL ACRYLATE) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(PHENOXY ETHYL ACRYLATE) |
| 14.3 Transport hazard class(es) | 9 | 9 | 9 |

| | | | |
|--|--|--|--|
| 14.4 Packing group | III | III | III |
| 14.5 Environmental hazards | Environmentally Hazardous | Not applicable | Marine Pollutant |
| 14.6 Special precautions for user | Please refer to the other sections of the SDS for further information. | Please refer to the other sections of the SDS for further information. | Please refer to the other sections of the SDS for further information. |
| 14.7 Transport in bulk according to Annex II of Marpol 73/78 and IBC Code | No data available. | No data available. | No data available. |
| Control Temperature | No data available. | No data available. | No data available. |
| Emergency Temperature | No data available. | No data available. | No data available. |
| ADR Classification Code | M6 | Not applicable. | Not applicable. |
| IMDG Segregation Code | Not applicable. | Not applicable. | NONE |

Please contact the address or phone number listed on the first page of the SDS for additional information on the transport/shipment of the material by rail (RID) or inland waterways (ADN).

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Carcinogenicity

| <u>Ingredient</u> | <u>CAS Nbr</u> | <u>Classification</u> | <u>Regulation</u> |
|-------------------|----------------|-------------------------------|---|
| Carbon black | 1333-86-4 | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |

Restrictions on the manufacture, placing on the market and use:

The following substance(s) contained in this product is/are subject to Annex XVII of regulation (EC) 1907/2006, as amended for GB, with regard to restrictions on the manufacture, placing on the market and use when present in certain dangerous conditions. Users of this product are required to comply with the restrictions placed upon it by the aforementioned provision.

| <u>Ingredient</u> | <u>CAS Nbr</u> |
|------------------------------|----------------|
| octamethylcyclotetrasiloxane | 556-67-2 |

Restriction status: listed in UK REACH Annex XVII

Restricted uses: See Annex XVII to Regulation (EC) No 1907/2006 as amended for Great Britain for Conditions of Restriction

Authorisation status under UK REACH:

The following substance/s contained in this product might be or is/are subject to authorisation in accordance with UK

REACH:

| <u>Ingredient</u> | <u>CAS Nbr</u> |
|--|-----------------------|
| <u>Ingredient</u> | <u>CAS Nbr</u> |
| <u>Ingredient</u> | <u>CAS Nbr</u> |
| 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone | 119313-12-1 |
| 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one | 71868-10-5 |
| octamethylcyclotetrasiloxane | 556-67-2 |

Authorisation status: listed in the UK REACH Candidate List of Substances of Very High Concern for Authorisation

Global inventory status

Contact 3M for more information. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory. 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.

COMAH Regulation, SI 2015/483

Seveso hazard categories, Annex 1, Part 1

| Hazard Categories | Qualifying quantity (tonnes) for the application of | |
|---|---|-------------------------|
| | Lower-tier requirements | Upper-tier requirements |
| E2 Hazardous to the Aquatic environment | 200 | 500 |

Seveso named dangerous substances, Annex 1, Part 2
None

Regulation (EU) No 649/2012, as amended for GB

No chemicals listed

15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out for this substance/mixture in accordance with Regulation (EC) No 1907/2006, as amended for GB.

SECTION 16: Other information**List of relevant H statements**

| | |
|-------|--------------------------------------|
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| H360D | May damage the unborn child. |

| | |
|--------|---|
| H360FD | May damage fertility. May damage the unborn child. |
| H360Fd | May damage fertility. Suspected of damaging the unborn child. |
| H361df | Suspected of damaging fertility. Suspected of damaging the unborn child. |
| H361f | Suspected of damaging fertility. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H372 | Causes damage to organs through prolonged or repeated exposure: liver respiratory system. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

Revision information:

GB Section 02: CLP Ingredient table information was modified.
 GB Section 04: First Aid - Symptoms and Effects (GB CLP) information was added.
 GB Section 04: Information on toxicological effects information was modified.
 Section 1: E-mail address information was modified.
 Label: CLP Classification information was modified.
 Label: CLP Precautionary - Prevention information was modified.
 Label: CLP Precautionary - Response information was modified.
 Label: CLP Target Organ Hazard Statement information was modified.
 Section 02: Label Elements: GB Percent Unknown information was added.
 Section 02: Label Elements: GB Percent Unknown information was modified.
 Section 3: Composition/ Information of ingredients table information was modified.
 Section 5: Hazardous combustion products table information was modified.
 Section 6: Accidental release personal information information was modified.
 Section 7: Conditions safe storage information was modified.
 Section 8: Eye/face protection information information was modified.
 Section 8: Occupational exposure limit table information was modified.
 OEL Reg Agency Desc information was modified.
 Section 08: Personal Protection - Apron Statement information was added.
 Section 8: Personal Protection - Skin/body information information was deleted.
 Section 8: Skin protection - protective clothing information information was deleted.
 Section 9: Flammability (solid, gas) information information was deleted.
 Section 09: Flammability information information was added.
 Section 09: Odor information was modified.
 Section 09: Particle Characteristics N/A information was added.
 Section 11: Acute Toxicity table information was modified.
 Section 11: Carcinogenicity Table information was modified.
 Section 11: Germ Cell Mutagenicity Table information was modified.
 Section 11: Reproductive Toxicity Table information was modified.
 Section 11: Skin Corrosion/Irritation Table information was modified.
 Section 11: Target Organs - Repeated Table information was modified.
 Section 11: Target Organs - Single Table information was modified.
 Section 12: Component ecotoxicity information information was modified.
 Section 12: Mobility in soil information information was modified.
 Section 12: Persistence and Degradability information information was modified.
 Section 12: Biocumulative potential information information was modified.
 Section 15: Regulations - Inventories information was modified.
 Section 15: Seveso Hazard Category Text information was added.
 Section 15: Seveso Substance Text information was deleted.
 Two-column table displaying the unique list of H Codes and statements (std phrases) for all components of the given material.
 information was modified.

DISCLAIMER: The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Data Sheet or use of the

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3M SDSs for Great Britain are available at www.3M.com/uk

For Northern Ireland documents, please contact your 3M representative to obtain a copy.