



## 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™ 8955UV Black Piezo InkJet Ink

#### Product Identification Numbers

75-0302-6692-0

7100103373

#### 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.

A similar mixture has been tested for skin corrosion/irritation and the test results are reflected in the assigned classification.

**CLASSIFICATION:**

Skin Corrosion/Irritation, Category 2 - Skin Irrit. 2; H315  
 Serious Eye Damage/Eye Irritation, Category 1 - Eye Dam. 1; H318  
 Skin Sensitization, Category 1 - Skin Sens. 1; H317  
 Carcinogenicity, Category 1B - Carc. 1B; H350  
 Reproductive Toxicity, Category 1B - Repr. 1B; H360FD  
 Specific Target Organ Toxicity-Single Exposure, Category 3 - STOT SE 3; H335  
 Hazardous to the Aquatic Environment (Acute), Category 1 - Aquatic Acute 1; H400  
 Hazardous to the Aquatic Environment (Chronic), Category 1 - Aquatic Chronic 1; H410

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**

GHS05 (Corrosion) | GHS07 (Exclamation mark) | GHS08 (Health Hazard) | GHS09 (Environment) |

**Pictograms**

| Ingredient                                                          | CAS Nbr    | EC No.    | % by Wt |
|---------------------------------------------------------------------|------------|-----------|---------|
| exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate                 | 5888-33-5  | 227-561-6 | 10 - 30 |
| isooctyl acrylate                                                   | 29590-42-9 | 249-707-8 | 10 - 30 |
| Tetrahydrofurfuryl acrylate                                         | 2399-48-6  | 219-268-7 | 10 - 30 |
| 2-Propenoic acid, 1,6-hexanediyl ester, polymer with 2-aminoethanol | 67906-98-3 |           | 7 - 13  |
| hexamethylene diacrylate                                            | 13048-33-4 | 235-921-9 | < 10    |
| diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide                     | 75980-60-8 | 278-355-8 | 3 - 7   |
| Benzophenone                                                        | 119-61-9   | 204-337-6 | 3 - 7   |

**HAZARD STATEMENTS:**

|        |                                                       |
|--------|-------------------------------------------------------|
| H315   | Causes skin irritation.                               |
| H318   | Causes serious eye damage.                            |
| H317   | May cause an allergic skin reaction.                  |
| H350   | May cause cancer.                                     |
| H360FD | May damage fertility. May damage the unborn child.    |
| H335   | May cause respiratory irritation.                     |
| H410   | Very toxic to aquatic life with long lasting effects. |

**PRECAUTIONARY STATEMENTS****Prevention:**

|       |                                         |
|-------|-----------------------------------------|
| P201  | Obtain special instructions before use. |
| P261A | Avoid breathing vapours.                |
| P273  | Avoid release to the environment.       |

P280I Wear protective gloves, eye protection, face protection, and respiratory protection.

**Response:**

P305 + P351 + P338

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

P310

Immediately call a POISON CENTRE or doctor/physician.

**SUPPLEMENTAL INFORMATION:****Supplemental Precautionary Statements:**

Restricted to professional users.

18% of the mixture consists of components of unknown acute oral toxicity.

Contains 18% of components with unknown hazards to the aquatic environment.

**2.3. Other hazards**

None known.

This material does not contain any substances that are assessed to be a PBT or vPvB

**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                                                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Tetrahydrofurfuryl acrylate                                                                                                                             | (CAS-No.) 2399-48-6<br>(EC-No.) 219-268-7  | 10 - 30 | Aquatic Chronic 2, H411<br>EUH071<br>Acute Tox. 4, H302<br>Skin Corr. 1C, H314<br>Skin Sens. 1B, H317<br>Repr. 1B, H360Df                       |
| isooctyl acrylate                                                                                                                                       | (CAS-No.) 29590-42-9<br>(EC-No.) 249-707-8 | 10 - 30 | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335<br>Aquatic Acute 1, H400,M=1<br>Aquatic Chronic 1, H410,M=1<br>Skin Sens. 1B, H317 |
| exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate                                                                                                     | (CAS-No.) 5888-33-5<br>(EC-No.) 227-561-6  | 10 - 30 | Skin Sens. 1A, H317<br>Aquatic Acute 1, H400,M=1<br>Aquatic Chronic 1, H410,M=1                                                                 |
| 2-Propenoic acid, 1,6-hexanediyl ester, polymer with 2-aminoethanol                                                                                     | (CAS-No.) 67906-98-3                       | 7 - 13  | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317                                                                                 |
| 2-Propenoic acid, 2-hydroxyethyl ester, polymer with 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane, 2-oxepanone and 2,2'-oxybis[ethanol] | (CAS-No.) 72162-39-1                       | 7 - 13  | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319                                                                                                       |
| hexamethylene diacrylate                                                                                                                                | (CAS-No.) 13048-33-4                       | < 10    | Skin Irrit. 2, H315                                                                                                                             |

|                                                 |                                            |       |                                                                                                            |
|-------------------------------------------------|--------------------------------------------|-------|------------------------------------------------------------------------------------------------------------|
|                                                 | (EC-No.) 235-921-9                         |       | Eye Irrit. 2, H319<br>Skin Sens. 1, H317<br>Nota D<br>Aquatic Acute 1, H400,M=1<br>Aquatic Chronic 2, H411 |
| Benzophenone                                    | (CAS-No.) 119-61-9<br>(EC-No.) 204-337-6   | 3 - 7 | Carc. 1B, H350<br>Acute Tox. 4, H302<br>STOT RE 2, H373<br>Aquatic Chronic 3, H412                         |
| diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | (CAS-No.) 75980-60-8<br>(EC-No.) 278-355-8 | 3 - 7 | Skin Sens. 1B, H317<br>Repr. 1B, H360Fd<br>Aquatic Chronic 2, H411<br>Repr. 1B, H360Fd                     |
| Carbon black                                    | (CAS-No.) 1333-86-4<br>(EC-No.) 215-609-9  | 1 - 5 | Substance with a national occupational exposure limit                                                      |
| TS Polymer                                      | Trade Secret                               | 1 - 5 | Substance not classified as hazardous                                                                      |
| CAMPHENE                                        | (CAS-No.) 79-92-5<br>(EC-No.) 201-234-8    | < 0.2 | Flam. Sol. 2, H228<br>Eye Irrit. 2, H319<br>Aquatic Acute 1, H400,M=1<br>Aquatic Chronic 1, H410,M=1       |

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

#### Specific Concentration Limits

| Ingredient        | Identifier(s)                              | Specific Concentration Limits |
|-------------------|--------------------------------------------|-------------------------------|
| isooctyl acrylate | (CAS-No.) 29590-42-9<br>(EC-No.) 249-707-8 | (C >= 10%) STOT SE 3, H335    |

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 for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately get medical attention.

#### If swallowed

Rinse mouth. Do not induce vomiting. Get immediate 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:

Irritating to the respiratory tract (coughing, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain). Irritation to the skin (localized redness, swelling, itching, and dryness). Allergic skin reaction (redness, swelling, blistering, and itching). Serious damage to the eyes (corneal cloudiness, severe pain, tearing, ulcerations, and significantly impaired or loss of vision).

**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**

Carbon monoxide

Carbon dioxide.

**Condition**

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**

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. 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.

**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

For industrial/occupational use only. Not for consumer sale or use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/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. Store away from oxidising agents.

### 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.

| <b>Ingredient</b>           | <b>CAS Nbr</b> | <b>Agency</b>           | <b>Limit type</b>                                                          | <b>Additional comments</b> |
|-----------------------------|----------------|-------------------------|----------------------------------------------------------------------------|----------------------------|
| Carbon black                | 1333-86-4      | UK HSE                  | TWA: 3.5 mg/m <sup>3</sup> ; STEL: 7 mg/m <sup>3</sup>                     |                            |
| Tetrahydrofurfuryl acrylate | 2399-48-6      | Manufacturer determined | TWA:0.1 ppm(0.64 mg/m <sup>3</sup> );STEL:0.3 ppm(1.91 mg/m <sup>3</sup> ) | Dermal Sensitizer          |

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.

#### 8.2.2. Personal protective equipment (PPE)

##### Eye/face protection

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

Full face shield.

Indirect vented goggles.

##### Applicable Norms/Standards

Use eye/face 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 vapors and particulates, including oily mists

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

*Applicable Norms/Standards*

Use a respirator conforming to EN 140: 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                                   | Moderate Acrylate                           |
| Odour threshold                        | No data available.                          |
| Melting point/freezing point           | Not applicable.                             |
| Boiling point/boiling range            | > 93.3 °C                                   |
| Flammability                           | Not applicable.                             |
| Flammable Limits(LEL)                  | No data available.                          |
| Flammable Limits(UEL)                  | No data available.                          |
| Flash point                            | > 93.3 °C [Test Method: Closed Cup]         |
| Autoignition temperature               | No data available.                          |
| Decomposition temperature              | No data available.                          |
| pH                                     | substance/mixture is non-soluble (in water) |
| Kinematic Viscosity                    | No data available.                          |
| Water solubility                       | Negligible                                  |
| Solubility- non-water                  | No data available.                          |
| Partition coefficient: n-octanol/water | No data available.                          |
| Vapour pressure                        | < 1,333.2 Pa [@ 20 °C]                      |
| Density                                | 1.04 g/ml                                   |

|                          |                         |
|--------------------------|-------------------------|
| Relative density         | 1.04 [Ref Std: WATER=1] |
| Relative Vapour Density  | > 1 [Ref Std: AIR=1]    |
| Particle Characteristics | Not applicable.         |

## 9.2. Other information

### 9.2.2 Other safety characteristics

EU Volatile Organic Compounds

*No data available.*

Evaporation rate

*No data available.*

Percent volatile

*No data available.*

## 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 depletion of inhibitor or exposure to heat)

### 10.4 Conditions to avoid

Light.

### 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

Skin Irritation: Signs/symptoms may include localised redness, swelling, itching, dryness, cracking, blistering, and pain.  
 Allergic skin reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching. May cause additional health effects (see below).

#### Eye contact

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

#### Ingestion

May be harmful if swallowed.

Gastrointestinal corrosion: Signs/symptoms may include severe mouth, throat and abdominal pain, nausea, vomiting, and diarrhea; blood in the faeces and/or vomitus may also be seen. May cause additional health effects (see below).

#### Additional Health Effects:

#### Prolonged or repeated exposure may cause target organ effects:

Kidney/Bladder effects: Signs/symptoms may include changes in urine production, abdominal or lower back pain, increased protein in urine, increased blood urea nitrogen (BUN), blood in urine, and painful urination. Dermal effects: Signs/symptoms may include redness, itching, acne, or bumps on the skin.

#### Reproductive/Developmental Toxicity:

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

#### Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

#### Toxicological Data

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

#### Acute Toxicity

| Name                                                | Route     | Species                | Value                                                   |
|-----------------------------------------------------|-----------|------------------------|---------------------------------------------------------|
| Overall product                                     | Dermal    |                        | No data available; calculated ATE >5,000 mg/kg          |
| Overall product                                     | Ingestion |                        | No data available; calculated ATE >2,000 - =5,000 mg/kg |
| Tetrahydrofurfuryl acrylate                         | Ingestion | Rat                    | LD50 882 mg/kg                                          |
| isooctyl acrylate                                   | Dermal    | Rabbit                 | LD50 > 2,000 mg/kg                                      |
| isooctyl acrylate                                   | Ingestion | Rat                    | LD50 > 5,000 mg/kg                                      |
| exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate | Dermal    | Rabbit                 | LD50 > 5,000 mg/kg                                      |
| exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate | Ingestion | Rat                    | LD50 4,350 mg/kg                                        |
| hexamethylene diacrylate                            | Dermal    | Rabbit                 | LD50 3,636 mg/kg                                        |
| hexamethylene diacrylate                            | Ingestion | Rat                    | LD50 > 5,000 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                                      |
| Benzophenone                                        | Dermal    | Rabbit                 | LD50 3,535 mg/kg                                        |
| Benzophenone                                        | Ingestion | Rat                    | LD50 1,900 mg/kg                                        |
| Carbon black                                        | Dermal    | Rabbit                 | LD50 > 3,000 mg/kg                                      |
| Carbon black                                        | Ingestion | Rat                    | LD50 > 8,000 mg/kg                                      |
| TS Polymer                                          | Ingestion | similar compounds      | LD50 > 5,000 mg/kg                                      |
| TS Polymer                                          | Dermal    | similar health hazards | LD50 estimated to be > 5,000 mg/kg                      |
| CAMPHENE                                            | Dermal    | Rabbit                 | LD50 > 2,500 mg/kg                                      |
| CAMPHENE                                            | Ingestion | Rat                    | LD50 > 5,000 mg/kg                                      |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name                                                                                                                                                    | Species                | Value                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------------------|
| Overall product                                                                                                                                         | Professional judgement | Irritant                  |
| Tetrahydrofurfuryl acrylate                                                                                                                             | Rabbit                 | Corrosive                 |
| isooctyl acrylate                                                                                                                                       | In vitro data          | No significant irritation |
| exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate                                                                                                     | Rabbit                 | Minimal irritation        |
| 2-Propenoic acid, 1,6-hexanediyl ester, polymer with 2-aminoethanol                                                                                     | similar compounds      | Irritant                  |
| 2-Propenoic acid, 2-hydroxyethyl ester, polymer with 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane, 2-oxepanone and 2,2'-oxybis[ethanol] | similar compounds      | Irritant                  |
| hexamethylene diacrylate                                                                                                                                | Rabbit                 | Irritant                  |
| diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide                                                                                                         | Rabbit                 | No significant irritation |
| Benzophenone                                                                                                                                            | Rabbit                 | No significant irritation |
| Carbon black                                                                                                                                            | Rabbit                 | No significant irritation |
| TS Polymer                                                                                                                                              | similar compounds      | No significant irritation |
| CAMPHENE                                                                                                                                                | Rabbit                 | No significant irritation |

**Serious Eye Damage/Irritation**

| Name                                                                                                                                                    | Species                | Value                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------------------|
| Tetrahydrofurfuryl acrylate                                                                                                                             | Rabbit                 | Corrosive                 |
| isooctyl acrylate                                                                                                                                       | similar health hazards | Mild irritant             |
| exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate                                                                                                     | Rabbit                 | Mild irritant             |
| 2-Propenoic acid, 1,6-hexanediyl ester, polymer with 2-aminoethanol                                                                                     | similar compounds      | Severe irritant           |
| 2-Propenoic acid, 2-hydroxyethyl ester, polymer with 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane, 2-oxepanone and 2,2'-oxybis[ethanol] | similar compounds      | Severe irritant           |
| hexamethylene diacrylate                                                                                                                                | Rabbit                 | Moderate irritant         |
| diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide                                                                                                         | Rabbit                 | No significant irritation |
| Benzophenone                                                                                                                                            | Rabbit                 | Mild irritant             |
| Carbon black                                                                                                                                            | Rabbit                 | No significant irritation |
| TS Polymer                                                                                                                                              | similar compounds      | No significant irritation |
| CAMPHENE                                                                                                                                                | Rabbit                 | Moderate irritant         |

**Skin Sensitisation**

| Name                                                                | Species                | Value       |
|---------------------------------------------------------------------|------------------------|-------------|
| Tetrahydrofurfuryl acrylate                                         | Professional judgement | Sensitising |
| isooctyl acrylate                                                   | Mouse                  | Sensitising |
| exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate                 | Human and animal       | Sensitising |
| 2-Propenoic acid, 1,6-hexanediyl ester, polymer with 2-aminoethanol | similar compounds      | Sensitising |

|                                                 |            |                |
|-------------------------------------------------|------------|----------------|
| hexamethylene diacrylate                        | Guinea pig | Sensitising    |
| diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | Mouse      | Sensitising    |
| Benzophenone                                    | Guinea pig | Not classified |

### 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                                                                        |
|-----------------------------------------------------|----------|------------------------------------------------------------------------------|
| Tetrahydrofurfuryl acrylate                         | In Vitro | Not mutagenic                                                                |
| isooctyl acrylate                                   | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate | In Vitro | Not mutagenic                                                                |
| hexamethylene diacrylate                            | 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                                                                |
| Benzophenone                                        | In Vitro | Not mutagenic                                                                |
| Benzophenone                                        | In vivo  | Not mutagenic                                                                |
| Carbon black                                        | In Vitro | Not mutagenic                                                                |
| Carbon black                                        | In vivo  | Some positive data exist, but the data are not sufficient for classification |
| CAMPHENE                                            | In Vitro | Not mutagenic                                                                |
| CAMPHENE                                            | In vivo  | Not mutagenic                                                                |

### Carcinogenicity

| Name                     | Route      | Species                 | Value            |
|--------------------------|------------|-------------------------|------------------|
| isooctyl acrylate        | Dermal     | Mouse                   | Not carcinogenic |
| hexamethylene diacrylate | Dermal     | Mouse                   | Not carcinogenic |
| Benzophenone             | Dermal     | Multiple animal species | Not carcinogenic |
| Benzophenone             | Ingestion  | Multiple animal species | Carcinogenic.    |
| Carbon black             | Dermal     | Mouse                   | Not carcinogenic |
| Carbon black             | Ingestion  | Mouse                   | Not carcinogenic |
| Carbon black             | Inhalation | Rat                     | Carcinogenic.    |

### Reproductive Toxicity

#### Reproductive and/or Developmental Effects

| Name                        | Route      | Value                                  | Species | Test result         | Exposure Duration            |
|-----------------------------|------------|----------------------------------------|---------|---------------------|------------------------------|
| Tetrahydrofurfuryl acrylate | Ingestion  | Toxic to female reproduction           | Rat     | NOAEL 50 mg/kg/day  | premating into lactation     |
| Tetrahydrofurfuryl acrylate | Dermal     | Toxic to male reproduction             | Rat     | NOAEL 100 mg/kg/day | 90 days                      |
| Tetrahydrofurfuryl acrylate | Ingestion  | Toxic to male reproduction             | Rat     | NOAEL 35 mg/kg/day  | 90 days                      |
| Tetrahydrofurfuryl acrylate | Inhalation | Toxic to male reproduction             | Rat     | NOAEL 0.6 mg/l      | 90 days                      |
| Tetrahydrofurfuryl acrylate | Ingestion  | Toxic to development                   | Rat     | NOAEL 50 mg/kg/day  | premating into lactation     |
| isooctyl acrylate           | Dermal     | Not classified for female reproduction | Rat     | NOAEL 57 mg/kg/day  | premating & during gestation |
| isooctyl acrylate           | Dermal     | Not classified for male reproduction   | Rat     | NOAEL 57 mg/kg/day  | premating & during gestation |
| isooctyl acrylate           | Dermal     | Not classified for development         | Rat     | NOAEL 57 mg/kg/day  | premating & during           |

|                                                     |                |                                        |        |                       |                                |
|-----------------------------------------------------|----------------|----------------------------------------|--------|-----------------------|--------------------------------|
| isooctyl acrylate                                   | Ingestion      | Not classified for development         | Rat    | NOAEL 1,000 mg/kg/day | gestation during organogenesis |
| exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate | Ingestion      | Not classified for male reproduction   | Rat    | NOAEL 500 mg/kg/day   | 31 days                        |
| exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate | Ingestion      | Not classified for female reproduction | Rat    | NOAEL 100 mg/kg/day   | premating into lactation       |
| exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate | Ingestion      | Not classified for development         | Rat    | NOAEL 100 mg/kg/day   | premating into lactation       |
| hexamethylene diacrylate                            | Not specified. | Not classified for development         | Rat    | NOAEL 750 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                        |
| Benzophenone                                        | Ingestion      | Not classified for female reproduction | Rat    | NOAEL 100 mg/kg/day   | 2 generation                   |
| Benzophenone                                        | Ingestion      | Not classified for male reproduction   | Rat    | NOAEL 80 mg/kg/day    | 2 generation                   |
| Benzophenone                                        | Ingestion      | Not classified for development         | Rabbit | NOAEL 25 mg/kg/day    | during gestation               |
| CAMPHENE                                            | Ingestion      | Not classified for development         | Rat    | NOAEL 1,000 mg/kg/day | during organogenesis           |

### Target Organ(s)

#### Specific Target Organ Toxicity - single exposure

| Name                                                                                                                                                    | Route      | Target Organ(s)                   | Value                                                                        | Species                | Test result         | Exposure Duration     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------------------|------------------------------------------------------------------------------|------------------------|---------------------|-----------------------|
| Tetrahydrofurfuryl acrylate                                                                                                                             | Inhalation | respiratory irritation            | May cause respiratory irritation                                             | Human and animal       | NOAEL Not available |                       |
| isooctyl acrylate                                                                                                                                       | Inhalation | respiratory irritation            | Not classified                                                               | Human                  | NOAEL Not available | occupational exposure |
| isooctyl acrylate                                                                                                                                       | Ingestion  | central nervous system depression | Not classified                                                               | Rat                    | NOAEL 5,000 mg/kg   |                       |
| 2-Propenoic acid, 1,6-hexanediyl ester, polymer with 2-aminoethanol                                                                                     | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available |                       |
| 2-Propenoic acid, 2-hydroxyethyl ester, polymer with 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane, 2-oxepanone and 2,2'-oxybis[ethanol] | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available |                       |
| hexamethylene diacrylate                                                                                                                                | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Human                  | NOAEL Not available |                       |
| CAMPHENE                                                                                                                                                | 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            |
|-------------------|--------|-------------------------------------------------------------------------|----------------|---------|--------------------|------------------------------|
| isooctyl acrylate | Dermal | heart   endocrine system   hematopoietic system   liver   immune system | Not classified | Rat     | NOAEL 57 mg/kg/day | premating & during gestation |

|                                                     |            |                                                                                                                                                                                                            |                                                                  |       |                       |                       |
|-----------------------------------------------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-------|-----------------------|-----------------------|
|                                                     |            | nervous system   kidney and/or bladder   respiratory system                                                                                                                                                |                                                                  |       |                       |                       |
| isooctyl acrylate                                   | Ingestion  | endocrine system   liver   kidney and/or bladder   heart   bone, teeth, nails, and/or hair   hematopoietic system   immune system   muscles   nervous system   eyes   respiratory system   vascular system | Not classified                                                   | Rat   | NOAEL 600 mg/kg/day   | 90 days               |
| exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate | Ingestion  | gastrointestinal tract   immune system   kidney and/or bladder   heart   endocrine system   hematopoietic system   liver   nervous system   respiratory system                                             | Not classified                                                   | Rat   | NOAEL 500 mg/kg/day   | 31 days               |
| hexamethylene diacrylate                            | Dermal     | skin                                                                                                                                                                                                       | May cause damage to organs though prolonged or repeated exposure | Mouse | LOAEL 70 mg/kg/day    | 80 weeks              |
| 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               |
| Benzophenone                                        | Ingestion  | kidney and/or bladder                                                                                                                                                                                      | May cause damage to organs though prolonged or repeated exposure | Rat   | LOAEL 75 mg/kg/day    | 14 weeks              |
| Benzophenone                                        | Ingestion  | heart   hematopoietic system   liver   immune system   endocrine system   bone, teeth, nails, and/or hair   nervous system   eyes   respiratory system                                                     | Not classified                                                   | Rat   | NOAEL 850 mg/kg/day   | 14 weeks              |
| Carbon black                                        | Inhalation | pneumoconiosis                                                                                                                                                                                             | Not classified                                                   | Human | NOAEL Not available   | occupational exposure |
| CAMPHENE                                            | Ingestion  | liver   kidney and/or bladder   hematopoietic system                                                                                                                                                       | Not classified                                                   | Rat   | NOAEL 1,000 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 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------------|-------------------------------------------------------|----------|---------------|-------------|
| exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate                                                                                                     | 5888-33-5  | Green algae      | Experimental                                          | 72 hours | ErC50         | 1.98 mg/l   |
| exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate                                                                                                     | 5888-33-5  | Zebra Fish       | Experimental                                          | 96 hours | LC50          | 0.704 mg/l  |
| exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate                                                                                                     | 5888-33-5  | Green algae      | Experimental                                          | 72 hours | NOEC          | 0.405 mg/l  |
| exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate                                                                                                     | 5888-33-5  | Water flea       | Experimental                                          | 21 days  | NOEC          | 0.092 mg/l  |
| isooctyl acrylate                                                                                                                                       | 29590-42-9 | Green algae      | Estimated                                             | 72 hours | EC50          | 0.535 mg/l  |
| isooctyl acrylate                                                                                                                                       | 29590-42-9 | Fathead minnow   | Experimental                                          | 96 hours | LC50          | 0.67 mg/l   |
| isooctyl acrylate                                                                                                                                       | 29590-42-9 | Water flea       | Experimental                                          | 48 hours | EC50          | 0.4 mg/l    |
| isooctyl acrylate                                                                                                                                       | 29590-42-9 | Water flea       | Experimental                                          | 21 days  | NOEC          | 0.065 mg/l  |
| isooctyl acrylate                                                                                                                                       | 29590-42-9 | Activated sludge | Experimental                                          | 3 hours  | EC50          | >1,000 mg/l |
| Tetrahydrofurfuryl acrylate                                                                                                                             | 2399-48-6  | Activated sludge | Experimental                                          | 3 hours  | EC50          | 263.7 mg/l  |
| Tetrahydrofurfuryl acrylate                                                                                                                             | 2399-48-6  | Green algae      | Experimental                                          | 72 hours | EC50          | 3.92 mg/l   |
| Tetrahydrofurfuryl acrylate                                                                                                                             | 2399-48-6  | Water flea       | Experimental                                          | 48 hours | EC50          | 37.7 mg/l   |
| Tetrahydrofurfuryl acrylate                                                                                                                             | 2399-48-6  | Zebra Fish       | Experimental                                          | 96 hours | LC50          | 7.32 mg/l   |
| Tetrahydrofurfuryl acrylate                                                                                                                             | 2399-48-6  | Green algae      | Experimental                                          | 72 hours | EC10          | 2.48 mg/l   |
| 2-Propenoic acid, 1,6-hexanediyl ester, polymer with 2-aminoethanol                                                                                     | 67906-98-3 | N/A              | Data not available or insufficient for classification | N/A      | N/A           | N/A         |
| 2-Propenoic acid, 2-hydroxyethyl ester, polymer with 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane, 2-oxepanone and 2,2'-oxybis[ethanol] | 72162-39-1 | N/A              | Data not available or insufficient for classification | N/A      | N/A           | N/A         |
| hexamethylene diacrylate                                                                                                                                | 13048-33-4 | Green algae      | Experimental                                          | 72 hours | EC50          | 2.33 mg/l   |
| hexamethylene diacrylate                                                                                                                                | 13048-33-4 | Medaka           | Experimental                                          | 96 hours | LC50          | 0.38 mg/l   |
| hexamethylene diacrylate                                                                                                                                | 13048-33-4 | Water flea       | Experimental                                          | 48 hours | EC50          | 2.7 mg/l    |
| hexamethylene diacrylate                                                                                                                                | 13048-33-4 | Green algae      | Experimental                                          | 72 hours | NOEC          | 0.9 mg/l    |

|                                                     |              |                      |                                                             |            |                                   |             |
|-----------------------------------------------------|--------------|----------------------|-------------------------------------------------------------|------------|-----------------------------------|-------------|
| hexamethylene diacrylate                            | 13048-33-4   | Medaka               | Experimental                                                | 39 days    | NOEC                              | 0.072 mg/l  |
| hexamethylene diacrylate                            | 13048-33-4   | Water flea           | Experimental                                                | 21 days    | NOEC                              | 0.14 mg/l   |
| hexamethylene diacrylate                            | 13048-33-4   | Activated sludge     | Experimental                                                | 30 minutes | EC50                              | 270 mg/l    |
| diphenyl(2,4,6-trimethylbenzoyl)p<br>hosphine oxide | 75980-60-8   | Activated sludge     | Experimental                                                | 3 hours    | EC20                              | >1,000 mg/l |
| diphenyl(2,4,6-trimethylbenzoyl)p<br>hosphine oxide | 75980-60-8   | Common Carp          | Experimental                                                | 96 hours   | LC50                              | 1.4 mg/l    |
| diphenyl(2,4,6-trimethylbenzoyl)p<br>hosphine oxide | 75980-60-8   | Green algae          | Experimental                                                | 72 hours   | EC50                              | >2.01 mg/l  |
| diphenyl(2,4,6-trimethylbenzoyl)p<br>hosphine oxide | 75980-60-8   | Water flea           | Experimental                                                | 48 hours   | EC50                              | 3.53 mg/l   |
| diphenyl(2,4,6-trimethylbenzoyl)p<br>hosphine oxide | 75980-60-8   | Green algae          | Experimental                                                | 72 hours   | EC10                              | 1.56 mg/l   |
| Benzophenone                                        | 119-61-9     | Fathead minnow       | Experimental                                                | 96 hours   | LC50                              | 10.89 mg/l  |
| Benzophenone                                        | 119-61-9     | Green algae          | Experimental                                                | 72 hours   | EC50                              | 3.5 mg/l    |
| Benzophenone                                        | 119-61-9     | Water flea           | Experimental                                                | 48 hours   | EC50                              | 6.8 mg/l    |
| Benzophenone                                        | 119-61-9     | Fathead minnow       | Experimental                                                | 7 days     | NOEC                              | 2.1 mg/l    |
| Benzophenone                                        | 119-61-9     | Green algae          | Experimental                                                | 72 hours   | NOEC                              | 1 mg/l      |
| Benzophenone                                        | 119-61-9     | Water flea           | Experimental                                                | 21 days    | NOEC                              | 0.2 mg/l    |
| Carbon black                                        | 1333-86-4    | Green algae          | Experimental                                                | 72 hours   | No tox obs at lmt<br>of water sol | >100 mg/l   |
| Carbon black                                        | 1333-86-4    | Zebra Fish           | Experimental                                                | 96 hours   | No tox obs at lmt<br>of water sol | >100 mg/l   |
| Carbon black                                        | 1333-86-4    | Green algae          | Experimental                                                | 72 hours   | No tox obs at lmt<br>of water sol | 100 mg/l    |
| Carbon black                                        | 1333-86-4    | Activated sludge     | Experimental                                                | 3 hours    | NOEC                              | >800 mg/l   |
| TS Polymer                                          | Trade Secret | N/A                  | Data not available<br>or insufficient for<br>classification | N/A        | N/A                               | N/A         |
| CAMPHERE                                            | 79-92-5      | Activated sludge     | Experimental                                                | 3 hours    | EC10                              | 490.3 mg/l  |
| CAMPHERE                                            | 79-92-5      | Green algae          | Experimental                                                | 72 hours   | EC50                              | 1.75 mg/l   |
| CAMPHERE                                            | 79-92-5      | Sheepshead<br>Minnow | Experimental                                                | 96 hours   | LC50                              | 1.9 mg/l    |
| CAMPHERE                                            | 79-92-5      | Water flea           | Experimental                                                | 48 hours   | EC50                              | 0.72 mg/l   |
| CAMPHERE                                            | 79-92-5      | Zebra Fish           | Experimental                                                | 96 hours   | LC50                              | 0.72 mg/l   |
| CAMPHERE                                            | 79-92-5      | Green algae          | Experimental                                                | 72 hours   | NOEC                              | 0.07 mg/l   |

## 12.2. Persistence and degradability

| Material                                               | CAS Nbr    | Test type                      | Duration | Study Type    | Test result                             | Protocol                          |
|--------------------------------------------------------|------------|--------------------------------|----------|---------------|-----------------------------------------|-----------------------------------|
| exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl<br>acrylate | 5888-33-5  | Experimental<br>Biodegradation | 28 days  | CO2 evolution | 57 %CO2<br>evolution/THCO2<br>evolution | OECD 310 CO2 Headspace            |
| isooctyl acrylate                                      | 29590-42-9 | Experimental<br>Biodegradation | 28 days  | BOD           | 93 %BOD/ThOD                            | OECD 301D - Closed bottle<br>test |

|                                                                                                                                                         |              |                                   |         |                               |                                      |                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------------------------|---------|-------------------------------|--------------------------------------|-------------------------------------|
| Tetrahydrofurfuryl acrylate                                                                                                                             | 2399-48-6    | Experimental Biodegradation       | 28 days | BOD                           | 77.7 %BOD/ThOD                       | OECD 301F - Manometric respirometry |
| Tetrahydrofurfuryl acrylate                                                                                                                             | 2399-48-6    | Experimental Bioconcentration     |         | Log Kow                       | 0.81                                 | OECD 107 log Kow shake flask mtd    |
| 2-Propenoic acid, 1,6-hexanediyl ester, polymer with 2-aminoethanol                                                                                     | 67906-98-3   | Data not available - insufficient | N/A     | N/A                           | N/A                                  | N/A                                 |
| 2-Propenoic acid, 2-hydroxyethyl ester, polymer with 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane, 2-oxepanone and 2,2'-oxybis[ethanol] | 72162-39-1   | Data not available - insufficient | N/A     | N/A                           | N/A                                  | N/A                                 |
| hexamethylene diacrylate                                                                                                                                | 13048-33-4   | Experimental Biodegradation       | 28 days | CO2 evolution                 | 60-70 %CO2 evolution/THCO2 evolution | ISO 14593 Inorg C Headspace         |
| hexamethylene diacrylate                                                                                                                                | 13048-33-4   | Estimated Photolysis              |         | Photolytic half-life (in air) | 1 days (t 1/2)                       | Episuite™                           |
| diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide                                                                                                         | 75980-60-8   | Experimental Biodegradation       | 28 days | BOD                           | ≤10 %BOD/ThOD                        | OECD 301F - Manometric respirometry |
| Benzophenone                                                                                                                                            | 119-61-9     | Experimental Biodegradation       | 28 days | BOD                           | 66-84 %BOD/ThOD                      | OECD 301F - Manometric respirometry |
| Carbon black                                                                                                                                            | 1333-86-4    | Data not available - insufficient | N/A     | N/A                           | N/A                                  | N/A                                 |
| TS Polymer                                                                                                                                              | Trade Secret | Data not available - insufficient | N/A     | N/A                           | N/A                                  | N/A                                 |
| CAMPHENE                                                                                                                                                | 79-92-5      | Experimental Biodegradation       | 28 days | BOD                           | 2 %BOD/ThOD                          | OECD 301C - MITI test (I)           |
| CAMPHENE                                                                                                                                                | 79-92-5      | Experimental Photolysis           |         | Photolytic half-life (in air) | 7.2 hours (t 1/2)                    |                                     |

### 12.3 : Bioaccumulative potential

| Material                                                                                                                                                | Cas No.    | Test type                                             | Duration | Study Type             | Test result | Protocol                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------------------------------------------------|----------|------------------------|-------------|------------------------------|
| exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate                                                                                                     | 5888-33-5  | Analogous Compound BCF - Fish                         | 56 hours | Bioaccumulation factor | 37          | OECD305-Bioconcentration     |
| exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate                                                                                                     | 5888-33-5  | Experimental Bioconcentration                         |          | Log Kow                | 4.52        | OECD 117 log Kow HPLC method |
| isooctyl acrylate                                                                                                                                       | 29590-42-9 | Estimated Bioconcentration                            |          | Bioaccumulation factor | 120-940     | Catalogic™                   |
| isooctyl acrylate                                                                                                                                       | 29590-42-9 | Experimental Bioconcentration                         |          | Log Kow                | 4.6         |                              |
| 2-Propenoic acid, 1,6-hexanediyl ester, polymer with 2-aminoethanol                                                                                     | 67906-98-3 | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A                          |
| 2-Propenoic acid, 2-hydroxyethyl ester, polymer with 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane, 2-oxepanone and 2,2'-oxybis[ethanol] | 72162-39-1 | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A                          |
| hexamethylene                                                                                                                                           | 13048-33-4 | Experimental                                          |          | Log Kow                | 2.81        |                              |

|                                                 |              |                                                       |         |                        |          |                          |
|-------------------------------------------------|--------------|-------------------------------------------------------|---------|------------------------|----------|--------------------------|
| diacrylate                                      |              | Bioconcentration                                      |         |                        |          |                          |
| diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide | 75980-60-8   | Experimental BCF - Fish                               | 56 days | Bioaccumulation factor | ≤40      |                          |
| Benzophenone                                    | 119-61-9     | Experimental BCF - Fish                               | 56 days | Bioaccumulation factor | <12      |                          |
| Carbon black                                    | 1333-86-4    | Data not available or insufficient for classification | N/A     | N/A                    | N/A      | N/A                      |
| TS Polymer                                      | Trade Secret | Data not available or insufficient for classification | N/A     | N/A                    | N/A      | N/A                      |
| CAMPHENE                                        | 79-92-5      | Experimental BCF - Fish                               | 56 days | Bioaccumulation factor | 606-1290 | OECD305-Bioconcentration |

#### 12.4. Mobility in soil

| Material                                            | Cas No.    | Test type                           | Study Type | Test result | Protocol                       |
|-----------------------------------------------------|------------|-------------------------------------|------------|-------------|--------------------------------|
| exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate | 5888-33-5  | Analogous Compound Mobility in Soil | Koc        | 5,100 l/kg  | OECD 121 Estim. of Koc by HPLC |
| isooctyl acrylate                                   | 29590-42-9 | Experimental Mobility in Soil       | Koc        | 1,500 l/kg  |                                |
| Tetrahydrofurfuryl acrylate                         | 2399-48-6  | Modeled Mobility in Soil            | Koc        | 29 l/kg     | Episuite™                      |
| hexamethylene diacrylate                            | 13048-33-4 | Estimated Mobility in Soil          | Koc        | 220 l/kg    | Episuite™                      |

#### 12.5. Results of the PBT and vPvB assessment

This material does not contain any substances that are assessed to be a PBT or vPvB

#### 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 completely cured (or polymerized) material in a permitted industrial waste facility. As a disposal alternative, incinerate uncured product 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)                                                                    |
|----------------------------------------------------------------------------------|------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| <b>14.1 UN number</b>                                                            | UN3082                                                                 | UN3082                                                                                     | UN3082                                                                                     |
| <b>14.2 UN proper shipping name</b>                                              | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.                    | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(ISOOCTYL ACRYLATE; ISOBORNYL ACRYLATE) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(ISOOCTYL ACRYLATE; ISOBORNYL ACRYLATE) |
| <b>14.3 Transport hazard class(es)</b>                                           | 9                                                                      | 9                                                                                          | 9                                                                                          |
| <b>14.4 Packing group</b>                                                        | III                                                                    | III                                                                                        | III                                                                                        |
| <b>14.5 Environmental hazards</b>                                                | Environmentally Hazardous                                              | Not applicable                                                                             | Marine Pollutant                                                                           |
| <b>14.6 Special precautions for user</b>                                         | 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.                     |
| <b>14.7 Transport in bulk according to Annex II of Marpol 73/78 and IBC Code</b> | No data available.                                                     | No data available.                                                                         | No data available.                                                                         |
| <b>Control Temperature</b>                                                       | No data available.                                                     | No data available.                                                                         | No data available.                                                                         |
| <b>Emergency Temperature</b>                                                     | No data available.                                                     | No data available.                                                                         | No data available.                                                                         |
| <b>ADR Classification Code</b>                                                   | M6                                                                     | Not applicable.                                                                            | Not applicable.                                                                            |
| <b>IMDG Segregation Code</b>                                                     | 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 Ingredient

#### CAS Nbr

#### Classification

#### Regulation

Benzophenone

119-61-9

Carc. 1B

The retained CLP Regulation (EU) No 1272/2008, as amended for Great Britain, UK Mandatory Classification and Labelling list

|              |           |                               |                                             |
|--------------|-----------|-------------------------------|---------------------------------------------|
| Benzophenone | 119-61-9  | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |
| Carbon black | 1333-86-4 | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |

**Global inventory status**

Contact 3M for more information. 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 |
| E1 Hazardous to the Aquatic environment | 100                                                 | 200                     |

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**

|        |                                                                    |
|--------|--------------------------------------------------------------------|
| EUH071 | Corrosive to the respiratory tract.                                |
| H228   | Flammable solid.                                                   |
| H302   | Harmful if swallowed.                                              |
| H314   | Causes severe skin burns and eye damage.                           |
| 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.                                  |
| H350   | May cause cancer.                                                  |
| H360Df | May damage the unborn child. Suspected of damaging fertility.      |
| H360FD | May damage fertility. May damage the unborn child.                 |
| H360Fd | May damage fertility. Suspected of damaging the unborn child.      |
| H373   | May cause damage to organs through prolonged or repeated exposure. |
| 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:**

Section 3: Composition/ Information of ingredients table 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 11: Health Effects - Inhalation information information was modified.

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.

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