



Safety Data Sheet

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Document group: 11-8902-6
Revision date: 07/08/2024

Version number: 13.00
Supersedes date: 31/08/2023

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 Process Colour 990-04, Yellow

Product Identification Numbers

75-0300-8073-5

7000004842

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: tox.uk@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:

Flammable Liquid, Category 3 - Flam. Liq. 3; H226
 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
 Hazardous to the Aquatic Environment (Chronic), Category 3 - Aquatic Chronic 3; H412

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

GHS02 (Flame) |GHS05 (Corrosion) |GHS07 (Exclamation mark) |

Pictograms



| Ingredient | CAS Nbr | EC No. | % by Wt |
|------------------------------|------------|-----------|---------|
| cyclohexanone | 108-94-1 | 203-631-1 | 10 - 30 |
| 2,3-Epoxypropyl neodecanoate | 26761-45-5 | 247-979-2 | < 0.3 |

HAZARD STATEMENTS:

| | |
|------|--|
| H226 | Flammable liquid and vapour. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H317 | May cause an allergic skin reaction. |
| H412 | Harmful to aquatic life with long lasting effects. |

PRECAUTIONARY STATEMENTS

Prevention:

| | |
|-------|--|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P280B | Wear protective gloves and eye/face 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. |
| P333 + P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P370 + P378 | In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish. |

23% of the mixture consists of components of unknown acute inhalation toxicity.

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 |
|--|--|-----------|---|
| Vinyl polymer | Trade Secret | 10 - 30 | Substance not classified as hazardous |
| Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate | (CAS-No.) 88917-22-0 | 10 - 30 | Substance not classified as hazardous |
| cyclohexanone | (CAS-No.) 108-94-1 (EC-No.) 203-631-1 | 10 - 30 | Flam. Liq. 3, H226 Acute Tox. 4, H332 Acute Tox. 4, H312 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 |
| 2-methoxy-1-methylethyl acetate | (CAS-No.) 108-65-6 (EC-No.) 203-603-9 | < 20 | Flam. Liq. 3, H226 STOT SE 3, H336 |
| Benzoic acid, 2,3,4,5-tetrachloro-6-cyano-, methyl ester, reaction products with p-phenylenediamine and sodium methoxide | (CAS-No.) 106276-80-6 | 3 - 7 | Substance not classified as hazardous |
| Alkyd resin 3261 | Trade Secret | 3 - 7 | Substance not classified as hazardous |
| xylene | (CAS-No.) 1330-20-7 (EC-No.) 215-535-7 | 3 - 7 | Flam. Liq. 3, H226 Acute Tox. 4, H332 Acute Tox. 4, H312 Skin Irrit. 2, H315 Nota C Asp. Tox. 1, H304 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Aquatic Chronic 3, H412 |
| 2,4-Dihydroxybenzophenone | (CAS-No.) 131-56-6 (EC-No.) 205-029-4 | 0.5 - 1.5 | Eye Irrit. 2, H319 Aquatic Chronic 2, H411 |
| ethylbenzene | (CAS-No.) 100-41-4 (EC-No.) 202-849-4 | 0.5 - 1.5 | Flam. Liq. 2, H225 Acute Tox. 4, H332 Asp. Tox. 1, H304 STOT RE 2, H373 Aquatic Chronic 3, H412 |
| Reaction mass of Polymeric benzotriazole and Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy- | (EC-No.) 400-830-7 | < 0.7 | Skin Sens. 1A, H317 Aquatic Chronic 2, H411 |
| bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate | (CAS-No.) 52829-07-9 (EC-No.) 258-207-9 | < 0.6 | Acute Tox. 3, H331 Eye Dam. 1, H318 |

| | | | |
|------------------------------------|--|--------|---|
| | | | Repr. 2, H361f Aquatic Acute 1, H400,M=1 Aquatic Chronic 2, H411 |
| 2,3-Epoxypropyl neodecanoate | (CAS-No.) 26761-45-5 (EC-No.) 247-979-2 | < 0.3 | Skin Sens. 1, H317 Muta. 2, H341 Aquatic Chronic 2, H411 |
| ZINC 2-ETHYLHEXANOATE | (CAS-No.) 136-53-8 (EC-No.) 205-251-1 | < 0.2 | Eye Irrit. 2, H319 Repr. 2, H361d Aquatic Acute 1, H400,M=1 Aquatic Chronic 1, H410,M=1 |
| Calcium bis(2-ethylhexanoate) | (CAS-No.) 136-51-6 (EC-No.) 205-249-0 | < 0.2 | Eye Dam. 1, H318 Repr. 2, H361d |
| PHOSPHONIC ACID, DIPHENYL ESTER | (CAS-No.) 4712-55-4 (EC-No.) 225-202-8 | < 0.2 | Acute Tox. 4, H302 Aquatic Acute 1, H400,M=1 |
| triphenyl phosphite | (CAS-No.) 101-02-0 (EC-No.) 202-908-4 | < 0.03 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Acute 1, H400,M=1 Aquatic Chronic 1, H410,M=1 Acute Tox. 4, H302 Skin Sens. 1A, H317 STOT RE 2, H373 |

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 |
|---------------------|--|---|
| triphenyl phosphite | (CAS-No.) 101-02-0 (EC-No.) 202-908-4 | (C >= 5%) Skin Irrit. 2, H315 (C >= 5%) Eye Irrit. 2, H319 |

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. 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:

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 flammable liquids such as dry chemical or carbon dioxide 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**

Hydrocarbons.
Carbon monoxide
Carbon dioxide.
Hydrogen Chloride

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. When fire fighting conditions are severe and total thermal decomposition of the product is possible, wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, tunic and trousers (leggings), bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head. 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. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. 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. Warning! A motor could be an ignition source and could cause flammable gases or vapours in the spill area to burn or explode. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions

Avoid release to the environment. For larger spills, cover drains and build dykes to prevent entry into sewer systems or bodies of water.

6.3. Methods and material for containment and cleaning up

Contain spill. Cover spill area with a fire-extinguishing foam. 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 using non-sparking tools. Place in a metal 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. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. 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.) Wear low static or properly grounded shoes. Use personal protective equipment (eg. gloves, respirators...) as required. To minimize the risk of ignition, determine applicable electrical classifications for the process using this product and select specific local exhaust ventilation equipment to avoid flammable vapour accumulation. Ground/bond container and receiving equipment if there is potential for static electricity accumulation during transfer.

7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store away from acids. 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.

| Ingredient | CAS Nbr | Agency | Limit type | Additional comments |
|---------------------------------|-----------|--------|--|---------------------|
| ethylbenzene | 100-41-4 | UK HSC | TWA:441 mg/m ³ (100 ppm);STEL:552 mg/m ³ (125 ppm) | SKIN |
| 2-methoxy-1-methylethyl acetate | 108-65-6 | UK HSC | TWA:274 mg/m ³ (50 ppm);STEL:548 mg/m ³ (100 ppm) | SKIN |
| cyclohexanone | 108-94-1 | UK HSC | TWA:41 mg/m ³ (10 ppm);STEL:82 mg/m ³ (20 ppm) | SKIN |
| xylene | 1330-20-7 | UK HSC | TWA:220 mg/m ³ (50 ppm);STEL:441 mg/m ³ (100 ppm) | SKIN |

UK HSC : UK Health and Safety Commission

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

Biological limit values

| Ingredient | CAS Nbr | Agency | Determinant | Biological Specimen | Sampling Time | Value | Additional comments |
|---------------|----------|---------------|--------------|---------------------|---------------|------------|---------------------|
| cyclohexanone | 108-94-1 | UK EH40 BMGVs | Cyclohexanol | Creatinine in urine | EOS | 2 mmol/mol | |

| | | | | | | |
|--------|---------------|------------------|-------------------------|------------------------|-----|--------------|
| xylene | 1330- 20-7 | UK EH40 BMGVs | Methyl hippuric acid | Creatinine in urine | EOS | 650 mmol/mol |
|--------|---------------|------------------|-------------------------|------------------------|-----|--------------|

UK EH40 BMGVs : UK. EH40 Biological Monitoring Guidance Values (BMGVs)
EOS: End of shift.

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. Use explosion-proof ventilation 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 (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron - polymer laminate

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 | Yellow |
| Odor | Moderate Solvent |
| Odour threshold | <i>No data available.</i> |
| Melting point/freezing point | <i>Not applicable.</i> |
| Boiling point/boiling range | ≥ 138.3 °C |
| Flammability | Flammable liquid: Category 3. |
| Flammable Limits(LEL) | 1 % |
| Flammable Limits(UEL) | 12.75 % |
| Flash point | 42.8 °C [<i>Test Method:</i> Tagliabue 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 | 1,340 mm ² /sec |
| Water solubility | Negligible |
| Solubility- non-water | <i>No data available.</i> |
| Partition coefficient: n-octanol/water | <i>No data available.</i> |
| Vapour pressure | ≤ 895.9 Pa [<i>@ 20 °C</i>] |
| Density | 0.97 g/ml [<i>@ 20 °C</i>] |
| Relative density | 0.97 [<i>Ref Std: WATER=1</i>] |
| Relative Vapour Density | ≥ 3.4 [<i>Ref Std: AIR=1</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*]

Molecular weight

No data available.

Percent volatile

65 - 80 % 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 will not occur.

10.4 Conditions to avoid

Sparks and/or flames.

10.5 Incompatible materials

Strong oxidising agents.

10.6 Hazardous decomposition products

Substance

None known.

Condition

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

May be harmful if inhaled. 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

May be harmful in contact with skin. 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.

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 irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea. May cause additional health effects (see below).

Additional Health Effects:**Single exposure may cause target organ effects:**

Auditory effects: Signs/symptoms may include hearing impairment, balance dysfunction and ringing in the ears. Central nervous system (CNS) depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

Prolonged or repeated exposure may cause target organ effects:

Auditory effects: Signs/symptoms may include hearing impairment, balance dysfunction and ringing in the ears. Neurological effects: Signs/symptoms may include personality changes, lack of coordination, sensory loss, tingling or numbness of the extremities, weakness, tremors, and changes in blood pressure and heart rate.

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 >2,000 - =5,000 mg/kg |
| Overall product | Inhalation-Vapour(4 hr) | | No data available; calculated ATE >20 - =50 mg/l |
| Overall product | Ingestion | | No data available; calculated ATE >2,000 - =5,000 mg/kg |
| cyclohexanone | Dermal | Rabbit | LD50 >794, <3160 mg/kg |
| cyclohexanone | Inhalation-Vapour (4 hours) | Rat | LC50 > 6.2 mg/l |
| cyclohexanone | Ingestion | Rat | LD50 1,296 mg/kg |
| Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate | Dermal | Rat | LD50 > 2,000 mg/kg |
| Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 5.7 mg/l |
| Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate | Ingestion | Rat | LD50 > 5,000 mg/kg |
| 2-methoxy-1-methylethyl acetate | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| 2-methoxy-1-methylethyl acetate | Inhalation-Vapour (4 hours) | Rat | LC50 > 28.8 mg/l |
| 2-methoxy-1-methylethyl acetate | Ingestion | Rat | LD50 8,532 mg/kg |
| Vinyl polymer | Dermal | Rabbit | LD50 > 8,000 mg/kg |
| Vinyl polymer | Ingestion | Rat | LD50 > 8,000 mg/kg |
| Benzoic acid, 2,3,4,5-tetrachloro-6-cyano-, methyl ester, reaction products with p-phenylenediamine and sodium methoxide | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Benzoic acid, 2,3,4,5-tetrachloro-6-cyano-, methyl ester, reaction products with p-phenylenediamine and sodium methoxide | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 1 mg/l |
| Benzoic acid, 2,3,4,5-tetrachloro-6-cyano-, methyl ester, reaction products with p-phenylenediamine and sodium methoxide | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Alkyd resin 3261 | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Alkyd resin 3261 | Ingestion | | LD50 estimated to be > 5,000 mg/kg |
| xylene | Dermal | Rabbit | LD50 > 4,200 mg/kg |
| xylene | Inhalation-Vapour (4 hours) | Rat | LC50 29 mg/l |
| xylene | Ingestion | Rat | LD50 3,523 mg/kg |
| ethylbenzene | Dermal | Rabbit | LD50 15,433 mg/kg |
| ethylbenzene | Inhalation-Vapour (4 hours) | Rat | LC50 17.4 mg/l |
| ethylbenzene | Ingestion | Rat | LD50 4,769 mg/kg |
| 2,4-Dihydroxybenzophenone | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| 2,4-Dihydroxybenzophenone | Ingestion | Rat | LD50 8,600 mg/kg |
| Reaction mass of Polymeric benzotriazole and Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy- | Dermal | Rat | LD50 > 2,000 mg/kg |
| Reaction mass of Polymeric benzotriazole and Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy- | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 5.8 mg/l |
| Reaction mass of Polymeric benzotriazole and Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy- | Ingestion | Rat | LD50 > 5,000 mg/kg |
| bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate | Dermal | Rat | LD50 > 3,170 mg/kg |
| bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate | Inhalation-Dust/Mist | Rat | LC50 0.5 mg/l |

| | (4 hours) | | |
|---|--------------------------------|--------|------------------------------------|
| bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate | Ingestion | Rat | LD50 3,700 mg/kg |
| 2,3-Epoxypropyl neodecanoate | Dermal | Rat | LD50 > 2,000 mg/kg |
| 2,3-Epoxypropyl neodecanoate | Ingestion | Rat | LD50 > 2,000 mg/kg |
| PHOSPHONIC ACID, DIPHENYL ESTER | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| PHOSPHONIC ACID, DIPHENYL ESTER | Ingestion | Rat | LD50 600 mg/kg |
| ZINC 2-ETHYLHEXANOATE | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| ZINC 2-ETHYLHEXANOATE | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Calcium bis(2-ethylhexanoate) | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Calcium bis(2-ethylhexanoate) | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 1.2 mg/l |
| Calcium bis(2-ethylhexanoate) | Ingestion | Rat | LD50 > 5,000 mg/kg |
| triphenyl phosphite | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| triphenyl phosphite | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 1.7 mg/l |
| triphenyl phosphite | Ingestion | Rat | LD50 1,590 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|--|------------------------|---------------------------|
| cyclohexanone | Rabbit | Irritant |
| Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate | Rabbit | No significant irritation |
| 2-methoxy-1-methylethyl acetate | Rabbit | No significant irritation |
| Vinyl polymer | Professional judgement | No significant irritation |
| Benzoic acid, 2,3,4,5-tetrachloro-6-cyano-, methyl ester, reaction products with p-phenylenediamine and sodium methoxide | Rabbit | No significant irritation |
| xylene | Rabbit | Mild irritant |
| ethylbenzene | Rabbit | Mild irritant |
| 2,4-Dihydroxybenzophenone | Rabbit | No significant irritation |
| Reaction mass of Polymeric benzotriazole and Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy- | Rabbit | No significant irritation |
| bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate | Rabbit | No significant irritation |
| 2,3-Epoxypropyl neodecanoate | Rabbit | No significant irritation |
| ZINC 2-ETHYLHEXANOATE | Rabbit | Mild irritant |
| Calcium bis(2-ethylhexanoate) | Rabbit | No significant irritation |
| triphenyl phosphite | Rabbit | Irritant |

Serious Eye Damage/Irritation

| Name | Species | Value |
|--|------------------------|---------------------------|
| cyclohexanone | In vitro data | Corrosive |
| Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate | Rabbit | No significant irritation |
| 2-methoxy-1-methylethyl acetate | Rabbit | Mild irritant |
| Vinyl polymer | Professional judgement | No significant irritation |
| Benzoic acid, 2,3,4,5-tetrachloro-6-cyano-, methyl ester, reaction products with p-phenylenediamine and sodium methoxide | Rabbit | No significant irritation |
| xylene | Rabbit | Mild irritant |
| ethylbenzene | Rabbit | Moderate irritant |
| 2,4-Dihydroxybenzophenone | Rabbit | Severe irritant |
| Reaction mass of Polymeric benzotriazole and Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy- | Rabbit | No significant irritation |
| bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate | Rabbit | Corrosive |

| | | |
|-------------------------------|--------|---------------------------|
| 2,3-Epoxypropyl neodecanoate | Rabbit | No significant irritation |
| ZINC 2-ETHYLHEXANOATE | Rabbit | Severe irritant |
| Calcium bis(2-ethylhexanoate) | Rabbit | Corrosive |
| triphenyl phosphite | Rabbit | Moderate irritant |

Skin Sensitisation

| Name | Species | Value |
|--|------------|----------------|
| cyclohexanone | Guinea pig | Not classified |
| Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate | Guinea pig | Not classified |
| 2-methoxy-1-methylethyl acetate | Guinea pig | Not classified |
| Benzoic acid, 2,3,4,5-tetrachloro-6-cyano-, methyl ester, reaction products with p-phenylenediamine and sodium methoxide | Human | Not classified |
| ethylbenzene | Human | Not classified |
| Reaction mass of Polymeric benzotriazole and Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy- | Guinea pig | Sensitising |
| bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate | Guinea pig | Not classified |
| 2,3-Epoxypropyl neodecanoate | Guinea pig | Sensitising |
| triphenyl phosphite | Mouse | Sensitising |

Photosensitisation

| Name | Species | Value |
|---|------------|-----------------|
| bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate | Guinea pig | Not 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 |
|--|----------|--|
| cyclohexanone | In vivo | Not mutagenic |
| cyclohexanone | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate | In Vitro | Not mutagenic |
| Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate | In vivo | Not mutagenic |
| 2-methoxy-1-methylethyl acetate | In Vitro | Not mutagenic |
| Benzoic acid, 2,3,4,5-tetrachloro-6-cyano-, methyl ester, reaction products with p-phenylenediamine and sodium methoxide | In Vitro | Not mutagenic |
| xylene | In Vitro | Not mutagenic |
| xylene | In vivo | Not mutagenic |
| ethylbenzene | In vivo | Not mutagenic |
| ethylbenzene | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Reaction mass of Polymeric benzotriazole and Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy- | In Vitro | Not mutagenic |
| Reaction mass of Polymeric benzotriazole and Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy- | In vivo | Not mutagenic |
| bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate | In Vitro | Not mutagenic |
| 2,3-Epoxypropyl neodecanoate | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| 2,3-Epoxypropyl neodecanoate | In vivo | Mutagenic |
| Calcium bis(2-ethylhexanoate) | In Vitro | Not mutagenic |
| triphenyl phosphite | In Vitro | Not mutagenic |

| | | |
|---------------------|---------|---------------|
| triphenyl phosphite | In vivo | Not mutagenic |
|---------------------|---------|---------------|

Carcinogenicity

| Name | Route | Species | Value |
|---------------|------------|-------------------------|--|
| cyclohexanone | Ingestion | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |
| xylene | Dermal | Rat | Not carcinogenic |
| xylene | Ingestion | Multiple animal species | Not carcinogenic |
| xylene | Inhalation | Human | Some positive data exist, but the data are not sufficient for classification |
| ethylbenzene | Inhalation | Multiple animal species | Carcinogenic. |

Reproductive Toxicity**Reproductive and/or Developmental Effects**

| Name | Route | Value | Species | Test result | Exposure Duration |
|--|------------|--|-------------------------|-----------------------|------------------------------|
| cyclohexanone | Inhalation | Not classified for female reproduction | Rat | NOAEL 4 mg/l | 2 generation |
| cyclohexanone | Inhalation | Not classified for male reproduction | Rat | NOAEL 2 mg/l | 2 generation |
| cyclohexanone | Ingestion | Not classified for development | Mouse | LOAEL 1,100 mg/kg/day | during organogenesis |
| cyclohexanone | Inhalation | Not classified for development | Rat | NOAEL 2 mg/l | 2 generation |
| 2-methoxy-1-methylethyl acetate | Ingestion | Not classified for female reproduction | Rat | NOAEL 1,000 mg/kg/day | premating & during gestation |
| 2-methoxy-1-methylethyl acetate | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,000 mg/kg/day | premating & during gestation |
| 2-methoxy-1-methylethyl acetate | Ingestion | Not classified for development | Rat | NOAEL 1,000 mg/kg/day | premating & during gestation |
| 2-methoxy-1-methylethyl acetate | Inhalation | Not classified for development | Rat | NOAEL 21.6 mg/l | during organogenesis |
| xylene | Inhalation | Not classified for female reproduction | Human | NOAEL Not available | occupational exposure |
| xylene | Ingestion | Not classified for development | Mouse | NOAEL Not available | during organogenesis |
| xylene | Inhalation | Not classified for development | Multiple animal species | NOAEL Not available | during gestation |
| ethylbenzene | Inhalation | Not classified for development | Rat | NOAEL 4.3 mg/l | premating & during gestation |
| Reaction mass of Polymeric benzotriazole and Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy- | Ingestion | Not classified for female reproduction | Rat | NOAEL 100 mg/kg/day | premating into lactation |
| Reaction mass of Polymeric benzotriazole and Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy- | Ingestion | Not classified for male reproduction | Rat | NOAEL 100 mg/kg/day | 115 days |
| Reaction mass of Polymeric benzotriazole and Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1- | Ingestion | Not classified for development | Rat | NOAEL 2 mg/kg/day | premating into lactation |

| | | | | | |
|--|-----------|--|-------------------|---------------------|--------------------------|
| oxopropyl]-.omega.-hydroxy-bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate | Ingestion | Not classified for male reproduction | Rat | NOAEL 430 mg/kg/day | 2 generation |
| bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate | Ingestion | Not classified for development | Rat | NOAEL 130 mg/kg/day | 2 generation |
| bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate | Ingestion | Toxic to female reproduction | Rat | NOAEL 130 mg/kg/day | 2 generation |
| ZINC 2-ETHYLHEXANOATE | Ingestion | Not classified for female reproduction | similar compounds | NOAEL 800 mg/kg/day | 2 generation |
| ZINC 2-ETHYLHEXANOATE | Ingestion | Not classified for male reproduction | similar compounds | NOAEL 800 mg/kg/day | 2 generation |
| ZINC 2-ETHYLHEXANOATE | Ingestion | Toxic to development | similar compounds | NOAEL 100 mg/kg/day | during gestation |
| Calcium bis(2-ethylhexanoate) | Ingestion | Not classified for female reproduction | similar compounds | NOAEL 800 mg/kg/day | 2 generation |
| Calcium bis(2-ethylhexanoate) | Ingestion | Not classified for male reproduction | similar compounds | NOAEL 800 mg/kg/day | 2 generation |
| Calcium bis(2-ethylhexanoate) | Ingestion | Toxic to development | similar compounds | NOAEL 100 mg/kg/day | during gestation |
| triphenyl phosphite | Ingestion | Not classified for female reproduction | Rat | NOAEL 40 mg/kg/day | premating into lactation |
| triphenyl phosphite | Ingestion | Not classified for male reproduction | Rat | NOAEL 40 mg/kg/day | 28 days |
| triphenyl phosphite | Ingestion | Not classified for development | Rat | NOAEL 40 mg/kg/day | during gestation |

Lactation

| Name | Route | Species | Value |
|--------|-----------|---------|--|
| xylene | Ingestion | Mouse | Not classified for effects on or via lactation |

Target Organ(s)

Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---------------------------------|------------|-----------------------------------|--|------------------------|---------------------|-------------------|
| cyclohexanone | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Guinea pig | LOAEL 16.1 mg/l | 6 hours |
| cyclohexanone | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | |
| cyclohexanone | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Professional judgement | NOAEL Not available | |
| 2-methoxy-1-methylethyl acetate | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | | NOAEL Not available | |
| 2-methoxy-1-methylethyl acetate | Ingestion | central nervous system depression | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL not available | |
| xylene | Inhalation | auditory system | Causes damage to organs | Rat | LOAEL 6.3 mg/l | 8 hours |
| xylene | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | |
| xylene | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | |
| xylene | Inhalation | eyes | Not classified | Rat | NOAEL 3.5 mg/l | not available |

| | | | | | | |
|---|------------|-----------------------------------|--|-------------------------|---------------------|----------------|
| xylene | Inhalation | liver | Not classified | Multiple animal species | NOAEL Not available | |
| xylene | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Multiple animal species | NOAEL Not available | |
| xylene | Ingestion | eyes | Not classified | Rat | NOAEL 250 mg/kg | not applicable |
| ethylbenzene | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | |
| ethylbenzene | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human and animal | NOAEL Not available | |
| ethylbenzene | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Professional judgement | NOAEL Not available | |
| bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate | Dermal | photoirritation | Not classified | Mouse | NOAEL not available | |
| bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL not available | |
| ZINC 2-ETHYLHEXANOATE | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL not available | |
| Calcium bis(2-ethylhexanoate) | 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 |
|---|------------|--|---|-------------------------|-----------------------|-------------------|
| cyclohexanone | Inhalation | liver kidney and/or bladder | Not classified | Rabbit | NOAEL 0.76 mg/l | 50 days |
| cyclohexanone | Ingestion | liver | Not classified | Mouse | NOAEL 4,800 mg/kg/day | 90 days |
| Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate | Ingestion | liver heart endocrine system hematopoietic system kidney and/or bladder | Not classified | Rat | NOAEL 1,000 mg/kg/day | 4 weeks |
| 2-methoxy-1-methylethyl acetate | Inhalation | kidney and/or bladder | Not classified | Rat | NOAEL 16.2 mg/l | 9 days |
| 2-methoxy-1-methylethyl acetate | Inhalation | olfactory system | Not classified | Mouse | LOAEL 1.62 mg/l | 9 days |
| 2-methoxy-1-methylethyl acetate | Inhalation | blood | Not classified | Multiple animal species | NOAEL 16.2 mg/l | 9 days |
| 2-methoxy-1-methylethyl acetate | Ingestion | endocrine system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 44 days |
| xylene | Inhalation | nervous system | Causes damage to organs through prolonged or repeated exposure | Rat | LOAEL 0.4 mg/l | 4 weeks |
| xylene | Inhalation | auditory system | May cause damage to organs through prolonged or repeated exposure | Rat | LOAEL 7.8 mg/l | 5 days |
| xylene | Inhalation | liver | Not classified | Multiple animal species | NOAEL Not available | |
| xylene | Inhalation | heart endocrine system gastrointestinal tract hematopoietic system muscles kidney and/or bladder respiratory | Not classified | Multiple animal species | NOAEL 3.5 mg/l | 13 weeks |

| | | | | | | |
|--|------------|--|--|-------------------------|-----------------------|-----------|
| | | system | | | | |
| xylene | Ingestion | auditory system | Not classified | Rat | NOAEL 900 mg/kg/day | 2 weeks |
| xylene | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 1,500 mg/kg/day | 90 days |
| xylene | Ingestion | liver | Not classified | Multiple animal species | NOAEL Not available | |
| xylene | Ingestion | heart skin endocrine system bone, teeth, nails, and/or hair hematopoietic system immune system nervous system respiratory system | Not classified | Mouse | NOAEL 1,000 mg/kg/day | 103 weeks |
| ethylbenzene | Inhalation | kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 1.1 mg/l | 2 years |
| ethylbenzene | Inhalation | liver | Some positive data exist, but the data are not sufficient for classification | Mouse | NOAEL 1.1 mg/l | 103 weeks |
| ethylbenzene | Inhalation | hematopoietic system | Not classified | Rat | NOAEL 3.4 mg/l | 28 days |
| ethylbenzene | Inhalation | auditory system | Not classified | Rat | NOAEL 2.4 mg/l | 5 days |
| ethylbenzene | Inhalation | endocrine system | Not classified | Mouse | NOAEL 3.3 mg/l | 103 weeks |
| ethylbenzene | Inhalation | gastrointestinal tract | Not classified | Rat | NOAEL 3.3 mg/l | 2 years |
| ethylbenzene | Inhalation | bone, teeth, nails, and/or hair muscles | Not classified | Multiple animal species | NOAEL 4.2 mg/l | 90 days |
| ethylbenzene | Inhalation | heart immune system respiratory system | Not classified | Multiple animal species | NOAEL 3.3 mg/l | 2 years |
| ethylbenzene | Ingestion | liver kidney and/or bladder | Not classified | Rat | NOAEL 680 mg/kg/day | 6 months |
| Reaction mass of Polymeric benzotriazole and Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy- | Ingestion | liver endocrine system hematopoietic system eyes kidney and/or bladder respiratory system | Not classified | Rat | NOAEL 50 mg/kg/day | 90 days |
| bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate | Ingestion | heart skin endocrine system gastrointestinal tract bone, teeth, nails, and/or hair hematopoietic system liver immune system muscles nervous system eyes kidney and/or bladder respiratory system vascular system | Not classified | Rat | NOAEL 261 mg/kg/day | 90 days |
| 2,3-Epoxypropyl neodecanoate | Ingestion | hematopoietic system liver | Not classified | Rat | NOAEL 400 mg/kg/day | 5 weeks |
| 2,3-Epoxypropyl neodecanoate | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 40 mg/kg/day | 5 weeks |
| triphenyl phosphite | Ingestion | nervous system | May cause damage to organs | Rat | NOAEL 15 | 28 days |

| | | | | | | |
|---------------------|-----------|--|---------------------------------------|-----|--------------------|---------|
| | | | though prolonged or repeated exposure | | mg/kg/day | |
| triphenyl phosphite | Ingestion | hematopoietic system kidney and/or bladder | Not classified | Rat | NOAEL 40 mg/kg/day | 28 days |

Aspiration Hazard

| Name | Value |
|--------------|-------------------|
| xylene | Aspiration hazard |
| ethylbenzene | Aspiration hazard |

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 |
|---|--------------|-------------------------------|---|------------|---------------|-------------|
| cyclohexanone | 108-94-1 | Activated sludge | Experimental | 30 minutes | EC50 | >1,000 mg/l |
| cyclohexanone | 108-94-1 | Algae or other aquatic plants | Experimental | 72 hours | ErC50 | 32.9 mg/l |
| cyclohexanone | 108-94-1 | Fathead minnow | Experimental | 96 hours | LC50 | 527 mg/l |
| cyclohexanone | 108-94-1 | Water flea | Experimental | 24 hours | EC50 | 800 mg/l |
| cyclohexanone | 108-94-1 | Algae or other aquatic plants | Experimental | 72 hours | ErC10 | 3.56 mg/l |
| Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate | 88917-22-0 | Activated sludge | Experimental | 3 hours | EC50 | >1,000 mg/l |
| Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate | 88917-22-0 | Green algae | Experimental | 72 hours | ErC50 | >1,000 mg/l |
| Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate | 88917-22-0 | Rainbow trout | Experimental | 96 hours | LC50 | 111 mg/l |
| Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate | 88917-22-0 | Water flea | Experimental | 48 hours | LC50 | 1,090 mg/l |
| Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate | 88917-22-0 | Green algae | Experimental | 72 hours | NOEC | 1,000 mg/l |
| Vinyl polymer | Trade Secret | N/A | Data not available or insufficient for classification | N/A | N/A | N/A |

| | | | | | | |
|--|-------------|------------------|--------------------|------------|--------------------------------|---------------------------|
| 2-methoxy-1-methylethyl acetate | 108-65-6 | Activated sludge | Experimental | 30 minutes | EC10 | >1,000 mg/l |
| 2-methoxy-1-methylethyl acetate | 108-65-6 | Green algae | Experimental | 72 hours | ErC50 | >1,000 mg/l |
| 2-methoxy-1-methylethyl acetate | 108-65-6 | Rainbow trout | Experimental | 96 hours | LC50 | 134 mg/l |
| 2-methoxy-1-methylethyl acetate | 108-65-6 | Water flea | Experimental | 48 hours | EC50 | 370 mg/l |
| 2-methoxy-1-methylethyl acetate | 108-65-6 | Green algae | Experimental | 72 hours | NOEC | 1,000 mg/l |
| 2-methoxy-1-methylethyl acetate | 108-65-6 | Water flea | Experimental | 21 days | NOEC | 100 mg/l |
| Benzoic acid, 2,3,4,5-tetrachloro-6-cyano-, methyl ester, reaction products with p-phenylenediamine and sodium methoxide | 106276-80-6 | Green algae | Analogous Compound | 72 hours | No tox obs at lmt of water sol | >100 mg/l |
| Benzoic acid, 2,3,4,5-tetrachloro-6-cyano-, methyl ester, reaction products with p-phenylenediamine and sodium methoxide | 106276-80-6 | Water flea | Analogous Compound | 48 hours | No tox obs at lmt of water sol | >100 mg/l |
| Benzoic acid, 2,3,4,5-tetrachloro-6-cyano-, methyl ester, reaction products with p-phenylenediamine and sodium methoxide | 106276-80-6 | Zebra Fish | Analogous Compound | 96 hours | No tox obs at lmt of water sol | >100 mg/l |
| Benzoic acid, 2,3,4,5-tetrachloro-6-cyano-, methyl ester, reaction products with p-phenylenediamine and sodium methoxide | 106276-80-6 | Green algae | Analogous Compound | 72 hours | No tox obs at lmt of water sol | >100 mg/l |
| Benzoic acid, 2,3,4,5-tetrachloro-6-cyano-, methyl ester, reaction products with p-phenylenediamine and sodium methoxide | 106276-80-6 | Activated sludge | Experimental | 30 minutes | EC50 | >1,000 mg/l |
| Benzoic acid, 2,3,4,5-tetrachloro-6-cyano-, methyl ester, reaction products with p-phenylenediamine and sodium methoxide | 106276-80-6 | Redworm | Experimental | 14 days | LC50 | >1,000 mg/kg (Dry Weight) |
| xylene | 1330-20-7 | Activated sludge | Estimated | 3 hours | NOEC | 157 mg/l |
| xylene | 1330-20-7 | Green algae | Estimated | 72 hours | EC50 | 4.36 mg/l |
| xylene | 1330-20-7 | Rainbow trout | Estimated | 96 hours | LC50 | 2.6 mg/l |
| xylene | 1330-20-7 | Water flea | Estimated | 48 hours | EC50 | 3.82 mg/l |

| | | | | | | |
|--|-----------|---------------------|--------------|----------|------|-------------|
| xylene | 1330-20-7 | Green algae | Estimated | 72 hours | NOEC | 0.44 mg/l |
| xylene | 1330-20-7 | Water flea | Estimated | 7 days | NOEC | 0.96 mg/l |
| xylene | 1330-20-7 | Rainbow trout | Experimental | 56 days | NOEC | >1.3 mg/l |
| 2,4-Dihydroxybenzophenone | 131-56-6 | Copepod | Experimental | 48 hours | LC50 | 2.6 mg/l |
| 2,4-Dihydroxybenzophenone | 131-56-6 | Medaka | Experimental | 96 hours | LC50 | 3.7 mg/l |
| 2,4-Dihydroxybenzophenone | 131-56-6 | Water flea | Experimental | 48 hours | LC50 | 7.86 mg/l |
| 2,4-Dihydroxybenzophenone | 131-56-6 | Goldfish | Experimental | 28 days | NOEC | 0.48 mg/l |
| 2,4-Dihydroxybenzophenone | 131-56-6 | Ciliated protozoa | Experimental | 48 hours | IC50 | 9.14 mg/l |
| ethylbenzene | 100-41-4 | Activated sludge | Experimental | 49 hours | EC50 | 130 mg/l |
| ethylbenzene | 100-41-4 | Atlantic Silverside | Experimental | 96 hours | LC50 | 5.1 mg/l |
| ethylbenzene | 100-41-4 | Green algae | Experimental | 96 hours | EC50 | 3.6 mg/l |
| ethylbenzene | 100-41-4 | Mysid Shrimp | Experimental | 96 hours | LC50 | 2.6 mg/l |
| ethylbenzene | 100-41-4 | Rainbow trout | Experimental | 96 hours | LC50 | 4.2 mg/l |
| ethylbenzene | 100-41-4 | Water flea | Experimental | 48 hours | EC50 | 1.8 mg/l |
| ethylbenzene | 100-41-4 | Water flea | Experimental | 7 days | NOEC | 0.96 mg/l |
| Reaction mass of Polymeric benzotriazole and Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy- | 400-830-7 | Activated sludge | Experimental | 3 hours | EC50 | >1,000 mg/l |
| Reaction mass of Polymeric benzotriazole and Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy- | 400-830-7 | Green algae | Experimental | 72 hours | EC50 | >100 mg/l |
| Reaction mass of Polymeric benzotriazole and Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4- | 400-830-7 | Rainbow trout | Experimental | 96 hours | LC50 | 2.8 mg/l |

| | | | | | | |
|--|------------|------------------|------------------------|------------|-------|------------|
| hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy- | | | | | | |
| Reaction mass of Polymeric benzotriazole and Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy- | 400-830-7 | Water flea | Experimental | 48 hours | EC50 | 4 mg/l |
| Reaction mass of Polymeric benzotriazole and Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy- | 400-830-7 | Green algae | Experimental | 72 hours | ErC10 | 10 mg/l |
| Reaction mass of Polymeric benzotriazole and Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy- | 400-830-7 | Water flea | Experimental | 21 days | NOEC | 0.78 mg/l |
| bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate | 52829-07-9 | Bluegill | Experimental | 96 hours | LC50 | 4.4 mg/l |
| bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate | 52829-07-9 | Green algae | Experimental | 72 hours | EC50 | 0.705 mg/l |
| bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate | 52829-07-9 | Water flea | Experimental | 48 hours | EC50 | 8.58 mg/l |
| bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate | 52829-07-9 | Green algae | Experimental | 72 hours | EC10 | 0.188 mg/l |
| bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate | 52829-07-9 | Water flea | Experimental | 21 days | NOEC | 0.23 mg/l |
| bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate | 52829-07-9 | Activated sludge | Experimental | 3 hours | IC50 | >100 |
| 2,3-Epoxypropyl neodecanoate | 26761-45-5 | Activated sludge | Experimental | 3 hours | NOEC | 500 mg/l |
| 2,3-Epoxypropyl neodecanoate | 26761-45-5 | Green algae | Experimental | 72 hours | ErC50 | 2.9 mg/l |
| 2,3-Epoxypropyl neodecanoate | 26761-45-5 | Rainbow trout | Experimental | 96 hours | LC50 | 5 mg/l |
| 2,3-Epoxypropyl neodecanoate | 26761-45-5 | Water flea | Experimental | 48 hours | EC50 | 4.8 mg/l |
| 2,3-Epoxypropyl neodecanoate | 26761-45-5 | Green algae | Experimental | 96 hours | NOEC | 1 mg/l |
| Calcium bis(2-ethylhexanoate) | 136-51-6 | Activated sludge | Transformation Product | 30 minutes | EC20 | 740 mg/l |

| | | | | | | |
|---------------------------------|-----------|------------------|------------------------|----------|-------|-----------|
| Calcium bis(2-ethylhexanoate) | 136-51-6 | Green algae | Transformation Product | 72 hours | ErC50 | 56 mg/l |
| Calcium bis(2-ethylhexanoate) | 136-51-6 | Medaka | Transformation Product | 96 hours | LC50 | >113 mg/l |
| Calcium bis(2-ethylhexanoate) | 136-51-6 | Water flea | Transformation Product | 48 hours | EC50 | 97 mg/l |
| Calcium bis(2-ethylhexanoate) | 136-51-6 | Green algae | Transformation Product | 96 hours | ErC10 | 28 mg/l |
| Calcium bis(2-ethylhexanoate) | 136-51-6 | Water flea | Transformation Product | 21 days | NOEC | 28 mg/l |
| PHOSPHONIC ACID, DIPHENYL ESTER | 4712-55-4 | Green algae | Analogous Compound | 72 hours | EC50 | >16 mg/l |
| PHOSPHONIC ACID, DIPHENYL ESTER | 4712-55-4 | Medaka | Analogous Compound | 96 hours | LC50 | >4.3 mg/l |
| PHOSPHONIC ACID, DIPHENYL ESTER | 4712-55-4 | Water flea | Analogous Compound | 48 hours | EC50 | 0.45 mg/l |
| PHOSPHONIC ACID, DIPHENYL ESTER | 4712-55-4 | Green algae | Analogous Compound | 72 hours | NOEC | 16 mg/l |
| ZINC 2-ETHYLHEXANOATE | 136-53-8 | Rainbow trout | Experimental | 96 hours | LC50 | 0.44 mg/l |
| ZINC 2-ETHYLHEXANOATE | 136-53-8 | Water flea | Experimental | 48 hours | EC50 | 1.6 mg/l |
| triphenyl phosphite | 101-02-0 | Green algae | Experimental | 72 hours | ErC50 | 86 mg/l |
| triphenyl phosphite | 101-02-0 | Medaka | Experimental | 96 hours | LC50 | >4.3 mg/l |
| triphenyl phosphite | 101-02-0 | Water flea | Experimental | 48 hours | EC50 | 0.45 mg/l |
| triphenyl phosphite | 101-02-0 | Green algae | Experimental | 72 hours | NOEC | 7.8 mg/l |
| triphenyl phosphite | 101-02-0 | Activated sludge | Experimental | 3 hours | EC50 | >100 mg/l |

12.2. Persistence and degradability

| Material | CAS Nbr | Test type | Duration | Study Type | Test result | Protocol |
|--|--------------|--|----------|--------------------------------|----------------------|-------------------------------------|
| cyclohexanone | 108-94-1 | Experimental Biodegradation | 14 days | BOD | 87 %BOD/ThOD | OECD 301C - MITI test (I) |
| Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate | 88917-22-0 | Analogous Compound Biodegradation | 28 days | Dissolv. Organic Carbon Deplet | 90 %removal of DOC | OECD 301F - Manometric respirometry |
| Vinyl polymer | Trade Secret | Data not available - insufficient | N/A | N/A | N/A | N/A |
| 2-methoxy-1-methylethyl acetate | 108-65-6 | Experimental Biodegradation | 28 days | BOD | 87.2 %BOD/ThOD | OECD 301C - MITI test (I) |
| 2-methoxy-1-methylethyl acetate | 108-65-6 | Experimental Aquatic Inherent Biodegrad. | | Dissolv. Organic Carbon Deplet | >100 %removal of DOC | similar to OECD 302B |
| Benzoic acid, 2,3,4,5-tetrachloro-6-cyano-, methyl ester, reaction products with p-phenylenediamine and sodium methoxide | 106276-80-6 | Modeled Biodegradation | 28 days | BOD | 3 %BOD/ThOD | Catalogic™ |
| xylene | 1330-20-7 | Experimental Biodegradation | 28 days | BOD | 90-98 %BOD/ThOD | OECD 301F - Manometric respirometry |
| xylene | 1330-20-7 | Experimental Photolysis | | Photolytic half-life (in air) | 1.4 days (t 1/2) | |

| | | | | | | |
|--|------------|---------------------------------------|---------|--------------------------------|--------------------------------------|-------------------------------------|
| 2,4-Dihydroxybenzophenone | 131-56-6 | Experimental Biodegradation | 28 days | BOD | 0 %BOD/ThOD | OECD 301C - MITI test (I) |
| ethylbenzene | 100-41-4 | Experimental Biodegradation | 28 days | CO2 evolution | 70-80 %CO2 evolution/THCO2 evolution | ISO 14593 Inorg C Headspace |
| ethylbenzene | 100-41-4 | Experimental Photolysis | | Photolytic half-life (in air) | 4.26 days (t 1/2) | |
| Reaction mass of Polymeric benzotriazole and Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy- | 400-830-7 | Experimental Biodegradation | 28 days | CO2 evolution | 12-24 %CO2 evolution/THCO2 evolution | OECD 301B - Modified sturm or CO2 |
| bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate | 52829-07-9 | Experimental Biodegradation | 28 days | Percent degraded | 24 %CO2 evolution/THCO2 evolution | OECD 301B - Modified sturm or CO2 |
| bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate | 52829-07-9 | Experimental Hydrolysis | | Hydrolytic half-life (pH 7) | 56.6 days (t 1/2) | OECD 111 Hydrolysis func of pH |
| 2,3-Epoxypropyl neodecanoate | 26761-45-5 | Experimental Biodegradation | 28 days | BOD | 11.6 %BOD/ThOD | OECD 301F - Manometric respirometry |
| 2,3-Epoxypropyl neodecanoate | 26761-45-5 | Experimental Hydrolysis | | Hydrolytic half-life (pH 7) | 9.9 days (t 1/2) | OECD 111 Hydrolysis func of pH |
| Calcium bis(2-ethylhexanoate) | 136-51-6 | Transformation product Biodegradation | 28 days | Dissolv. Organic Carbon Deplet | 99 %removal of DOC | OECD 301E - Modif. OECD Screen |
| PHOSPHONIC ACID, DIPHENYL ESTER | 4712-55-4 | Analogous Compound Biodegradation | 28 days | BOD | 84 %BOD/ThOD | OECD 301D - Closed bottle test |
| ZINC 2-ETHYLHEXANOATE | 136-53-8 | Transformation product Biodegradation | 20 days | BOD | 83 %BOD/ThOD | OECD 301D - Closed bottle test |
| triphenyl phosphite | 101-02-0 | Experimental Biodegradation | 28 days | BOD | 84 %BOD/ThOD | OECD 301D - Closed bottle test |
| triphenyl phosphite | 101-02-0 | Experimental Hydrolysis | | Hydrolytic half-life (pH 7) | 6.5 hours (t 1/2) | OECD 111 Hydrolysis func of pH |

12.3 : Bioaccumulative potential

| Material | Cas No. | Test type | Duration | Study Type | Test result | Protocol |
|--|--------------|---|----------|------------------------|-------------|--------------------------------|
| cyclohexanone | 108-94-1 | Experimental Bioconcentration | | Log Kow | 0.86 | OECD 107 log Kow shke flsk mtd |
| Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate | 88917-22-0 | Experimental Bioconcentration | | Log Kow | 0.61 | EC A.8 Partition Coefficient |
| Vinyl polymer | Trade Secret | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| 2-methoxy-1-methylethyl acetate | 108-65-6 | Experimental Bioconcentration | | Log Kow | 0.36 | OECD 107 log Kow shke flsk mtd |
| Benzoic acid, 2,3,4,5-tetrachloro-6-cyano-, methyl ester, reaction products with p-phenylenediamine and sodium methoxide | 106276-80-6 | Modeled Bioconcentration | | Bioaccumulation factor | 35 | Catalogic™ |
| xylene | 1330-20-7 | Experimental BCF | 56 days | Bioaccumulation | 25.9 | |

| | | | | | | |
|--|------------|---|---------|------------------------|------|--------------------------------|
| | | - Fish | | factor | | |
| 2,4-Dihydroxybenzophenone | 131-56-6 | Modeled Bioconcentration | | Bioaccumulation factor | 5.0 | Catalogic™ |
| 2,4-Dihydroxybenzophenone | 131-56-6 | Modeled Bioconcentration | | Log Kow | 2.96 | Episuite™ |
| ethylbenzene | 100-41-4 | Experimental BCF - Fish | 42 days | Bioaccumulation factor | 1 | |
| Reaction mass of Polymeric benzotriazole and Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy- | 400-830-7 | Experimental BCF - Fish | 21 days | Bioaccumulation factor | 34 | OECD305-Bioconcentration |
| bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate | 52829-07-9 | Experimental Bioconcentration | | Log Kow | 0.35 | OECD 107 log Kow shke flsk mtd |
| 2,3-Epoxypropyl neodecanoate | 26761-45-5 | Modeled Bioconcentration | | Bioaccumulation factor | 28 | Catalogic™ |
| Calcium bis(2-ethylhexanoate) | 136-51-6 | Transformation product Bioconcentration | | Log Kow | 2.7 | similar to OECD 107 |
| PHOSPHONIC ACID, DIPHENYL ESTER | 4712-55-4 | Modeled Bioconcentration | | Log Kow | 2.4 | Episuite™ |
| ZINC 2-ETHYLHEXANOATE | 136-53-8 | Estimated Bioconcentration | | Log Kow | 2.7 | |
| triphenyl phosphite | 101-02-0 | Hydrolysis product Bioconcentration | | Log Kow | 1.47 | |

12.4. Mobility in soil

| Material | Cas No. | Test type | Study Type | Test result | Protocol |
|--|-------------|-------------------------------------|------------|----------------|--------------------------------|
| cyclohexanone | 108-94-1 | Modeled Mobility in Soil | Koc | 39 l/kg | Episuite™ |
| Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate | 88917-22-0 | Experimental Mobility in Soil | Koc | 187 l/kg | OECD 121 Estim. of Koc by HPLC |
| 2-methoxy-1-methylethyl acetate | 108-65-6 | Experimental Mobility in Soil | Koc | 4 l/kg | Episuite™ |
| Benzoic acid, 2,3,4,5-tetrachloro-6-cyano-, methyl ester, reaction products with p-phenylenediamine and sodium methoxide | 106276-80-6 | Analogous Compound Mobility in Soil | Koc | 1,614 l/kg | OECD 121 Estim. of Koc by HPLC |
| 2,4-Dihydroxybenzophenone | 131-56-6 | Modeled Mobility in Soil | Koc | 1,914 l/kg | Episuite™ |
| bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate | 52829-07-9 | Experimental Mobility in Soil | Koc | 780-16000 l/kg | OECD 106 Adsp-Desb Batch Equil |
| 2,3-Epoxypropyl neodecanoate | 26761-45-5 | Experimental Mobility in Soil | Koc | 143 l/kg | OECD 121 Estim. of Koc by HPLC |
| PHOSPHONIC ACID, DIPHENYL | 4712-55-4 | Modeled Mobility in Soil | Koc | 180 l/kg | Episuite™ |

| | | | | | |
|---------------------|----------|--|-----|---------|--|
| ESTER | | | | | |
| triphenyl phosphite | 101-02-0 | Hydrolysis product Mobility in Soil | Koc | 14 l/kg | |

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.

Incinerate in a permitted waste incineration facility. Combustion products will include halogen acid (HCl/HF/HBr). Facility must be capable of handling halogenated materials. As a disposal alternative, utilize an acceptable permitted waste disposal facility. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

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 | UN1210 | UN1210 | UN1210 |
| 14.2 UN proper shipping name | PRINTING INK | PRINTING INK | PRINTING INK |
| 14.3 Transport hazard class(es) | 3 | 3 | 3 |
| 14.4 Packing group | III | III | III |
| 14.5 Environmental hazards | Not Environmentally Hazardous | Not applicable | Not a 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 | No data available. | No data available. | No data available. |

| | | | |
|--------------------------------|--------------------|--------------------|--------------------|
| IBC Code | | | |
| 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 | F1 | 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> |
|-------------------|----------------|-------------------------------|---|
| xylene | 1330-20-7 | Gr. 3: Not classifiable | International Agency for Research on Cancer |
| cyclohexanone | 108-94-1 | Gr. 3: Not classifiable | International Agency for Research on Cancer |
| ethylbenzene | 100-41-4 | 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 new substance notification requirements of CEPA. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC 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 |
| P5c FLAMMABLE LIQUIDS* | 5000 | 50000 |

*If maintained at a temperature above its boiling point or if particular processing conditions, such as high pressure or high temperature, may create major-accident hazards, P5a or P5b FLAMMABLE LIQUIDS may apply
Seveso named dangerous substances, Annex 1, Part 2

| Dangerous Substances | Identifier(s) | Qualifying quantity (tonnes) for the application of | |
|---------------------------------|---------------|---|-------------------------|
| | | Lower-tier requirements | Upper-tier requirements |
| 2-methoxy-1-methylethyl acetate | 108-65-6 | 10 | 50 |
| cyclohexanone | 108-94-1 | 10 | 50 |

| | | | |
|---------------------|-----------|-----|-----|
| ethylbenzene | 100-41-4 | 10 | 50 |
| triphenyl phosphite | 101-02-0 | 100 | 200 |
| xylene | 1330-20-7 | 10 | 50 |

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**

| | |
|-------|--|
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| 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. |
| H331 | Toxic if inhaled. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H341 | Suspected of causing genetic defects. |
| H361d | Suspected of damaging the unborn child. |
| H361f | Suspected of damaging fertility. |
| 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:

GB Section 02: CLP Ingredient table information was modified.
 GB Section 15: Carcinogenicity information information was modified.
 Section 3: Composition/ Information of ingredients table information was modified.
 Section 8: Occupational exposure limit table information was modified.
 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: Aspiration Hazard 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: Serious Eye Damage/Irritation Table information was modified.
 Section 11: Skin Corrosion/Irritation Table information was modified.
 Section 11: Skin Sensitization 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: Restrictions on manufacture ingredients information information was deleted.

Section 15: Seveso Substance Text information was modified.

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 product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications. In addition, this SDS is being provided to convey health and safety information. If you are the importer of record of this product into the European Union, you are responsible for all regulatory requirements, including, but not limited to, product registrations/notifications, substance volume tracking, and potential substance registration.

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.