

Safety Data Sheet

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

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

1.1. Product identifier

3M Screen Printing Ink 9800CL-UV, Screen Print Clear

Product Identification Numbers

75-3470-6922-3

7000056126

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:

Skin Corrosion/Irritation, Category 2 - Skin Irrit. 2; H315

Serious Eye Damage/Eye Irritation, Category 2 - Eye Irrit. 2; H319

Skin Sensitization, Category 1A - Skin Sens. 1A; H317

Reproductive Toxicity, Category 2 - Repr. 2; H361fd

Specific Target Organ Toxicity-Repeated Exposure, Category 1 - STOT RE 1; H372 Hazardous to the Aquatic Environment (Chronic), Category 2 - Aquatic Chronic 2; H411

For full text of H phrases, see Section 16.

2.2. Label elements

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

SIGNAL WORD

DANGER.

Symbols

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









Ingredient	CAS Nbr	EC No.	% by Wt
Aliphatic urethane acrylate	Trade Secret		20 - 30
Aliphatic urethane acrylate	Trade Secret		10 - 30
2-Phenoxyethyl acrylate	48145-04-6	256-360-6	10 - 20
hexamethylene diacrylate	13048-33-4	235-921-9	1 - 5
ACRYLIC COPOLYMER (DGN 20-7394-8)	Trade Secret		1 - 5
OLIGO[2-HYDROXY-2-METHYL-1-[4(1-METHYL-VINYL)PHENYL]PROPANONE (DGN 20-7394-8)	Trade Secret		1 - 5
2-Hydroxy-2-methylpropiophenone	7473-98-5	231-272-0	1 - 2
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate		915-687-0	1 - 2
Silicone defoamer	Trade Secret		1 - 2

HAZARD STATEMENTS:

H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

Causes damage to organs through prolonged or repeated exposure: respiratory system. H372

H411 Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

Prevention:

P260A Do not breathe vapours.

Avoid release to the environment. P273

P280F Wear 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.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

P391 Collect spillage.

51% of the mixture consists of components of unknown acute oral toxicity.

51% of the mixture consists of components of unknown acute dermal toxicity.

Contains 56% 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
Aliphatic urethane acrylate	Trade Secret	20 - 30	Substance not classified as hazardous
Aliphatic urethane acrylate	Trade Secret	10 - 30	Substance not classified as hazardous
2-Phenoxyethyl acrylate	(CAS-No.) 48145-04-6 (EC-No.) 256-360-6	10 - 20	Skin Sens. 1A, H317 Repr. 2, H361df Aquatic Chronic 2, H411
1-Vinylhexahydro-2H-azepin-2-one	(CAS-No.) 2235-00-9 (EC-No.) 218-787-6	10 - 20	Acute Tox. 4, H312 Acute Tox. 4, H302 Eye Irrit. 2, H319 Skin Sens. 1B, H317 STOT RE 1, H372
2-(2-Ethoxyethoxy)ethyl acrylate	(CAS-No.) 7328-17-8 (EC-No.) 230-811-7	5 - 15	Acute Tox. 4, H312 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412
ACRYLIC COPOLYMER (DGN 20-7394-8)	Trade Secret	1 - 5	Substance not classified as hazardous
OLIGO[2-HYDROXY-2-METHYL-1- [4(1-METHYL- VINYL)PHENYL]PROPANONE (DGN 20-7394-8)	Trade Secret	1 - 5	Substance not classified as hazardous
hexamethylene diacrylate	(CAS-No.) 13048-33-4 (EC-No.) 235-921-9	1 - 5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Nota D

			Aquatic Acute 1, H400,M=1 Aquatic Chronic 2, H411
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	(CAS-No.) 28961-43-5 (EC-No.) 500-066-5	1 - 5	Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 3, H412
Silicone defoamer	Trade Secret	1 - 2	Substance not classified as hazardous
2-Hydroxy-2-methylpropiophenone	(CAS-No.) 7473-98-5 (EC-No.) 231-272-0	1 - 2	Aquatic Chronic 3, H412 Acute Tox. 4, H302
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	(EC-No.) 915-687-0	1 - 2	Aquatic Acute 1, H400,M=1 Aquatic Chronic 1, H410,M=1 Skin Sens. 1A, H317 Repr. 2, H361f

Any entry in the Identifier(s) column that begins with the numbers 6, 7, 8, or 9 are a Provisional List Number provided by ECHA pending publication of the official EC Inventory Number for the substance.

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

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

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

Remove person to fresh air. If you feel unwell, get medical attention.

Skin contact

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

Eve contact

Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. Get medical attention.

If swallowed

Rinse mouth. If you feel unwell, get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

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

Irritation to the skin (localized redness, swelling, itching, and dryness). Allergic skin reaction (redness, swelling, blistering, and itching). Serious irritation to the eyes (significant redness, swelling, pain, tearing, and impaired vision). Target organ effects. See Section 11 for additional details.

4.3. Indication of any immediate medical attention and special treatment required

Not applicable.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

5.2. Special hazards arising from the substance or mixture

Closed containers exposed to heat from fire may build pressure and explode.

Hazardous Decomposition or By-Products

Substance

formaldehyde Carbon monoxide

Carbon dioxide.

Irritant vapours or gases.

Condition

During combustion.

During combustion.

During combustion.

During combustion.

5.3. Advice for fire-fighters

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapours, in accordance with good industrial hygiene practice. 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. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and Safety Data Sheet. Seal the container. Dispose of collected material as soon as possible.

6.4. Reference to other sections

Refer to Section 8 and Section 13 for more information

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (eg. gloves, respirators...) as required.

7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Protect from sunlight. Store away from heat. Store away from oxidising agents.

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

1-Vinylhexahydro-2H-azepin-2- 2235-00-9 Manufacturer TWA(8 hours):0.1 ppm(0.57 one determined mg/m3)

UK HSC : 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

No engineering controls required.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

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

Indirect vented goggles.

Applicable Norms/Standards

Use eye protection conforming to EN 166

Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity. Gloves made from the following material(s) are recommended:

MaterialThickness (mm)Breakthrough TimePolymer laminateNo data availableNo 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 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

DI 1 1 4 4	
Physical state Liquid.	
Specific Physical Form: Liquid.	
Colourless Colourless	
Odor Slight Acrylate	
Odour threshold No data available.	
Melting point/freezing point Not applicable.	
Boiling point/boiling range > 148.9 °C	
Flammability Not applicable.	
Flammable Limits(LEL) No data available.	
Flammable Limits(UEL) No data available.	
Flash point > 93.3 °C [Test Method: Pensky-Martens 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 < 160 Pa [@ 20 °C]	
Density approximately 1.3 g/ml	
Relative density approximately 1.3 [Ref Std: WATER=1]	
Relative Vapour Density No data available.	
Particle Characteristics Not applicable.	

9.2. Other information

9.2.2 Other safety characteristics

EU Volatile Organic Compounds

No data available.

Evaporation rate < 1 [*Ref Std*:BUOAC=1]

Percent volatile 1 - 5 % weight

SECTION 10: Stability and reactivity

10.1 Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section

10.2 Chemical stability

Stable.

10.3 Possibility of hazardous reactions

Hazardous polymerisation may occur. Upon depletion of inhibitor or with exposure to heat.

10.4 Conditions to avoid

Sparks and/or flames.

Heat.

10.5 Incompatible materials

Strong oxidising agents.

10.6 Hazardous decomposition products

Substance

Condition

None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

The information below may not agree with the material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 11 are based on UN GHS calculation rules and classifications derived from 3M assessments.

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

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation

Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. May cause additional health effects (see below).

Skin contact

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. May cause additional health effects (see below).

Eve contact

Severe eye irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

Ingestion

May be harmful if swallowed.

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

Additional Health Effects:

Prolonged or repeated exposure may cause target organ effects:

Respiratory effects: Signs/symptoms may include cough, shortness of breath, chest tightness, wheezing, increased heart rate, bluish coloured skin (cyanosis), sputum production, changes in lung function tests, and respiratory failure. 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.

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	Ingestion		No data available; calculated ATE >2,000 - =5,000
			mg/kg
2-Phenoxyethyl acrylate	Dermal	Rat	LD50 > 2,000 mg/kg
2-Phenoxyethyl acrylate	Ingestion	Rat	LD50 > 5,000 mg/kg
1-Vinylhexahydro-2H-azepin-2-one	Dermal	Rabbit	LD50 1,700 mg/kg
1-Vinylhexahydro-2H-azepin-2-one	Ingestion	Rat	LD50 1,049 mg/kg
2-(2-Ethoxyethoxy)ethyl acrylate	Dermal		LD50 estimated to be 1,000 - 2,000 mg/kg
2-(2-Ethoxyethoxy)ethyl acrylate	Ingestion	Rat	LD50 1,860 mg/kg
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	Dermal	Rabbit	LD50 > 13,200 mg/kg
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	Ingestion	Rat	LD50 > 2,000 mg/kg
hexamethylene diacrylate	Dermal	Rabbit	LD50 3,636 mg/kg
hexamethylene diacrylate	Ingestion	Rat	LD50 > 5,000 mg/kg
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	Dermal	Professio	LD50 estimated to be 2,000 - 5,000 mg/kg
and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate		nal	
		judgeme	
		nt	
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	Ingestion	Rat	LD50 3,125 mg/kg
and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate			
2-Hydroxy-2-methylpropiophenone	Dermal	Rat	LD50 6,929 mg/kg
2-Hydroxy-2-methylpropiophenone	Ingestion	Rat	LD50 1,694 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Skiii Corrosion/Irritation		
Name	Species	Value
2-Phenoxyethyl acrylate	Rabbit	No significant irritation
1-Vinylhexahydro-2H-azepin-2-one	Rabbit	Minimal irritation
2-(2-Ethoxyethoxy)ethyl acrylate	Rabbit	Irritant
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	Rabbit	Minimal irritation
hexamethylene diacrylate	Rabbit	Irritant
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl	Rabbit	Minimal irritation
1,2,2,6,6-pentamethyl-4-piperidyl sebacate		
2-Hydroxy-2-methylpropiophenone	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
2-Phenoxyethyl acrylate	Rabbit	No significant irritation
1-Vinylhexahydro-2H-azepin-2-one	Rabbit	Severe irritant
2-(2-Ethoxyethoxy)ethyl acrylate	Rabbit	Severe irritant
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	Rabbit	Severe irritant
hexamethylene diacrylate	Rabbit	Moderate irritant
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl	Rabbit	Mild irritant
1,2,2,6,6-pentamethyl-4-piperidyl sebacate		
2-Hydroxy-2-methylpropiophenone	Rabbit	Mild irritant

Skin Sensitisation

Name	Species	Value
2-Phenoxyethyl acrylate	Guinea	Sensitising
	pig	
1-Vinylhexahydro-2H-azepin-2-one	Mouse	Sensitising
2-(2-Ethoxyethoxy)ethyl acrylate	Guinea	Sensitising
	pig	
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	Guinea	Sensitising
	pig	

hexamethylene diacrylate	Guinea	Sensitising
	pig	
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl	Guinea	Sensitising
1,2,2,6,6-pentamethyl-4-piperidyl sebacate	pig	

Respiratory Sensitisation

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

Germ Cell Mutagenicity

Name	Route	Value
1-Vinylhexahydro-2H-azepin-2-one	In Vitro	Not mutagenic
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	In vivo	Not mutagenic
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	In Vitro	Some positive data exist, but the data are not sufficient for classification
hexamethylene diacrylate	In Vitro	Some positive data exist, but the data are not sufficient for classification
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	In vivo	Not mutagenic
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
hexamethylene diacrylate	Dermal	Mouse	Not carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
2-Phenoxyethyl acrylate	Ingestion	Not classified for male reproduction	Rat	NOAEL 800 mg/kg/day	43 days
2-Phenoxyethyl acrylate	Ingestion	Toxic to female reproduction	Rat	NOAEL 300 mg/kg/day	premating into lactation
2-Phenoxyethyl acrylate	Ingestion	Toxic to development	Rat	NOAEL 300 mg/kg/day	premating into lactation
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	premating into lactation
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	29 days
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	during organogenesis
hexamethylene diacrylate	Not specified.	Not classified for development	Rat	NOAEL 750 mg/kg/day	during organogenesis
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,493 mg/kg/day	29 days
Reaction mass of Bis(1,2,2,6,6- pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Ingestion	Not classified for development	Rat	NOAEL 209 mg/kg/day	premating into lactation
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Ingestion	Toxic to female reproduction	Rat	NOAEL 804 mg/kg/day	premating into lactation

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
1-Vinylhexahydro-2H- azepin-2-one	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL Not available	
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL not available	
hexamethylene diacrylate	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
1-Vinylhexahydro-2H- azepin-2-one	Inhalation	respiratory system	Causes damage to organs through prolonged or repeated exposure	Rat	NOAEL 0.001 mg/l	28 days
1-Vinylhexahydro-2H- azepin-2-one	Inhalation	blood liver kidney and/or bladder eyes	Not classified	Rat	NOAEL 0.18 mg/l	90 days
1-Vinylhexahydro-2H- azepin-2-one	Ingestion	liver	Not classified	Rat	NOAEL 260 mg/kg/day	3 months
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 100 mg/kg/day	29 days
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	Ingestion	endocrine system hematopoietic system liver immune system nervous system kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	29 days
hexamethylene diacrylate	Dermal	skin	May cause damage to organs though prolonged or repeated exposure	Mouse	LOAEL 70 mg/kg/day	80 weeks
Reaction mass of Bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and Methyl 1,2,2,6,6- pentamethyl-4-piperidyl sebacate	Ingestion	eyes	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 300 mg/kg/day	28 days
Reaction mass of Bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate and Methyl 1,2,2,6,6- pentamethyl-4-piperidyl sebacate	Ingestion	gastrointestinal tract liver immune system heart endocrine system hematopoietic system nervous system kidney and/or bladder	Not classified	Rat	NOAEL 1,493 mg/kg/day	29 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	Туре	Exposure	Test endpoint	Test result
Aliphatic urethane acrylate	Trade Secret	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
2-Phenoxyethyl acrylate	48145-04-6	Activated sludge	Experimental	3 hours	EC50	177 mg/l
2-Phenoxyethyl acrylate	48145-04-6	Golden Orfe	Experimental	96 hours	LC50	10 mg/l
2-Phenoxyethyl acrylate	48145-04-6	Green algae	Experimental	72 hours	EC50	4.4 mg/l
2-Phenoxyethyl acrylate	48145-04-6	Water flea	Experimental	48 hours	EC50	1.21 mg/l
2-Phenoxyethyl acrylate	48145-04-6	Green algae	Experimental	72 hours	EC10	0.71 mg/l
1-Vinylhexahydro- 2H-azepin-2-one	2235-00-9	Bacteria	Experimental	17 hours	EC50	622 mg/l
1-Vinylhexahydro- 2H-azepin-2-one	2235-00-9	Green algae	Experimental	72 hours	ErC50	>100 mg/l
1-Vinylhexahydro- 2H-azepin-2-one	2235-00-9	Water flea	Experimental	48 hours	EC50	>100 mg/l
1-Vinylhexahydro- 2H-azepin-2-one	2235-00-9	Zebra Fish	Experimental	96 hours	LC50	307 mg/l
1-Vinylhexahydro- 2H-azepin-2-one	2235-00-9	Green algae	Experimental	72 hours	NOEC	25 mg/l
2-(2- Ethoxyethoxy)ethyl acrylate	7328-17-8	Golden Orfe	Experimental	96 hours	LC50	10 mg/l
2-(2- Ethoxyethoxy)ethyl acrylate	7328-17-8	Green algae	Experimental	72 hours	ErC50	3.2 mg/l
2-(2- Ethoxyethoxy)ethyl acrylate	7328-17-8	Water flea	Experimental	48 hours	EC50	10.56 mg/l
2-(2- Ethoxyethoxy)ethyl acrylate	7328-17-8	Green algae	Experimental	72 hours	NOEC	<1 mg/l
2-(2- Ethoxyethoxy)ethyl acrylate	7328-17-8	Activated sludge	Experimental	3 hours	EC50	770 mg/l
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
Propylidynetrimeth anol, ethoxylated, esters with acrylic acid	28961-43-5	Green algae	Experimental	72 hours	ErC50	2.2 mg/l
Propylidynetrimeth anol, ethoxylated,	28961-43-5	Water flea	Experimental	48 hours	EC50	70.7 mg/l

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	ı		1	1	T	
esters with acrylic acid						
Propylidynetrimeth	28961-43-5	Zebra Fish	Experimental	96 hours	LC50	1.95 mg/l
anol, ethoxylated,	20701-43-3	Zeora i isii	Experimental	70 nours	LC30	1.75 mg/1
esters with acrylic						
acid						
Propylidynetrimeth	28961-43-5	Green algae	Experimental	72 hours	ErC10	0.323 mg/l
anol, ethoxylated,						
esters with acrylic						
acid Propylidynetrimeth	20061 42 5	Activated sludge	Experimental	3 hours	EC20	292 mg/l
anol, ethoxylated,	28901-43-3	Activated studge	Experimental	3 Hours	EC20	292 mg/1
esters with acrylic						
acid						
2-Hydroxy-2-	7473-98-5	Activated sludge	Experimental	180 minutes	EC50	>1,000 mg/l
methylpropiopheno						
ne						
2-Hydroxy-2-	7473-98-5	Green algae	Experimental	72 hours	ErC50	1.95 mg/l
methylpropiopheno						
ne 2-Hydroxy-2-	7473-98-5	Water flea	Ei	48 hours	ECEO	> 1.10 //
methylpropiopheno	1/4/3-98-3	water flea	Experimental	48 nours	EC50	>119 mg/l
ne						
2-Hydroxy-2-	7473-98-5	Green algae	Experimental	72 hours	NOEC	0.194 mg/l
methylpropiopheno			F			
ne						
Reaction mass of	915-687-0	Activated sludge	Experimental	3 hours	IC50	>=100 mg/l
Bis(1,2,2,6,6-						
pentamethyl-4-						
piperidyl) sebacate and Methyl						
1,2,2,6,6-						
pentamethyl-4-						
piperidyl sebacate						
Reaction mass of	915-687-0	Green algae	Experimental	72 hours	ErC50	1.68 mg/l
Bis(1,2,2,6,6-						
pentamethyl-4-						
piperidyl) sebacate						
and Methyl 1,2,2,6,6-						
pentamethyl-4-						
piperidyl sebacate						
Reaction mass of	915-687-0	Zebra Fish	Experimental	96 hours	LC50	0.9 mg/l
Bis(1,2,2,6,6-			•			
pentamethyl-4-						
piperidyl) sebacate						
and Methyl						
1,2,2,6,6- pentamethyl-4-						
piperidyl sebacate						
Reaction mass of	915-687-0	Green algae	Experimental	72 hours	NOEC	0.22 mg/l
Bis(1,2,2,6,6-]	1			
pentamethyl-4-						
piperidyl) sebacate						
and Methyl						
1,2,2,6,6-						
pentamethyl-4- piperidyl sebacate						
Reaction mass of	915-687-0	Water flea	Experimental	21 days	NOEC	1 mg/l
Bis(1,2,2,6,6-	15.500, 0		Z.iperimentur		1.020	
pentamethyl-4-						
piperidyl) sebacate						
and Methyl						
1,2,2,6,6-						
pentamethyl-4-						
piperidyl sebacate	l	L	l	1	l	

12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Aliphatic urethane	Trade Secret	Data not availbl-	N/A	N/A	N/A	N/A
acrylate		insufficient				
2-Phenoxyethyl	48145-04-6	Experimental	28 days	BOD	22.3 %BOD/ThOD	OECD 301D - Closed bottle
acrylate		Biodegradation				test
2-Phenoxyethyl	48145-04-6	Estimated		Photolytic half-life	9.7 hours (t 1/2)	
acrylate		Photolysis		(in air)		
1-Vinylhexahydro-	2235-00-9	Experimental	28 days	Dissolv. Organic		OECD 301A - DOC Die
2H-azepin-2-one		Biodegradation		Carbon Deplet	DOC	Away Test
1-Vinylhexahydro-	2235-00-9	Experimental		Dissolv. Organic	98 %removal of	OECD 302B Zahn-
2H-azepin-2-one		Biodegradation		Carbon Deplet	DOC	Wellens/EVPA
1-Vinylhexahydro-	2235-00-9	Experimental			>1 years (t 1/2)	OECD 111 Hydrolysis func
2H-azepin-2-one		Hydrolysis		(pH 7)		of pH
1-Vinylhexahydro-	2235-00-9	Experimental		Hydrolytic half-life	6.5 hours (t 1/2)	OECD 111 Hydrolysis func
2H-azepin-2-one		Hydrolysis		acidic pH		of pH
2-(2-	7328-17-8	Experimental	28 days	CO2 evolution	98 %CO2	OECD 301B - Modified
Ethoxyethoxy)ethyl		Biodegradation			evolution/THCO2	sturm or CO2
acrylate					evolution	
2-(2-	7328-17-8	Experimental		Hydrolytic half-life	313 days (t 1/2)	OECD 111 Hydrolysis func
Ethoxyethoxy)ethyl		Hydrolysis		(pH 7)		of pH
acrylate						
2-(2-	7328-17-8	Experimental		Hydrolytic half-life	4.65 days (t 1/2)	OECD 111 Hydrolysis func
Ethoxyethoxy)ethyl		Hydrolysis		basic pH		of pH
acrylate	112010 22 1		100.1	000		Y00 14500 Y
hexamethylene	13048-33-4	Experimental	28 days	CO2 evolution	60-70 %CO2	ISO 14593 Inorg C
diacrylate		Biodegradation			evolution/THCO2	Headspace
1 (1.1	13048-33-4	E C 4 1		Photolytic half-life	evolution	Episuite TM
hexamethylene diacrylate	13048-33-4	Estimated Photolysis		(in air)	1 days (t 1/2)	Episuite ^{1M}
	28961-43-5	Experimental	28 days	CO2 evolution	60 %CO2	OECD 301B - Modified
anol, ethoxylated,	28901-43-3	Biodegradation	28 days	CO2 evolution	evolution/THCO2	sturm or CO2
esters with acrylic		Biodegradation			evolution 1 HCO2	sturm of CO2
acid					Cvolution	
2-Hydroxy-2-	7473-98-5	Experimental	28 days	CO2 evolution	90 %CO2	OECD 301B - Modified
methylpropiopheno	1473-76-3	Biodegradation	20 days	CO2 evolution	evolution/THCO2	sturm or CO2
ne		Biodegradation			evolution	Starm of CO2
Reaction mass of	915-687-0	Experimental	28 days	Dissolv. Organic	38 %removal of	OECD 301E - Modif. OECD
Bis(1,2,2,6,6-	15 007 0	Biodegradation	20 44.75	Carbon Deplet	DOC	Screen
pentamethyl-4-						
piperidyl) sebacate						
and Methyl						
1,2,2,6,6-						
pentamethyl-4-						
piperidyl sebacate						

12.3 : Bioaccumulative potential

Material	Cas No.	Test type	Duration	Study Type	Test result	Protocol
Aliphatic urethane acrylate	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
2-Phenoxyethyl acrylate	48145-04-6	Experimental Bioconcentration		Log Kow	2.58	
1-Vinylhexahydro- 2H-azepin-2-one	2235-00-9	Experimental Bioconcentration		Log Kow	1.2	similar to OECD 107
2-(2- Ethoxyethoxy)ethyl acrylate	7328-17-8	Experimental Bioconcentration		Log Kow	1.105	OECD 117 log Kow HPLC method
hexamethylene diacrylate	13048-33-4	Experimental Bioconcentration		Log Kow	2.81	
Propylidynetrimeth anol, ethoxylated, esters with acrylic acid	28961-43-5	Experimental Bioconcentration		Log Kow	2.89	OECD 107 log Kow shke flsk mtd
2-Hydroxy-2-	7473-98-5	Experimental		Log Kow	1.62	OECD 107 log Kow shke

methylpropiopheno		Bioconcentration				flsk mtd
ne						
Reaction mass of	915-687-0	Analogous	56 days	Bioaccumulation	31.4	
Bis(1,2,2,6,6-		Compound BCF -		factor		
pentamethyl-4-		Fish				
piperidyl) sebacate						
and Methyl						
1,2,2,6,6-						
pentamethyl-4-						
piperidyl sebacate						

12.4. Mobility in soil

Material	Cas No.	Test type	Study Type	Test result	Protocol
2-Phenoxyethyl acrylate	48145-04-6	Estimated Mobility in Soil	Koc	220 l/kg	Episuite TM
1-Vinylhexahydro- 2H-azepin-2-one	2235-00-9	Modeled Mobility in Soil	Koc	47 l/kg	Episuite TM
2-(2- Ethoxyethoxy)ethyl acrylate	7328-17-8	Experimental Mobility in Soil	Koc	<17.8 l/kg	OECD 121 Estim. of Koc by HPLC
hexamethylene diacrylate	13048-33-4	Estimated Mobility in Soil	Koc	220 l/kg	Episuite TM
2-Hydroxy-2- methylpropiopheno ne	7473-98-5	Modeled Mobility in Soil	Koc	40 l/kg	Episuite TM
Reaction mass of Bis(1,2,2,6,6- pentamethyl-4- piperidyl) sebacate and Methyl 1,2,2,6,6- pentamethyl-4- piperidyl sebacate	915-687-0	Modeled Mobility in Soil	Кос	200,000 l/kg	Episuite TM

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 waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

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

EU waste code (product as sold)

08 01 11* Waste paint and varnish containing organic solvents or other dangerous substances

SECTION 14: Transportation information

	Ground Transport (ADR)	Air Transport (IATA)	Marine Transport (IMDG)
14.1 UN number	UN3082	UN3082	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(PHENOXY ETHYL ACRYLATE; BIS(1,2,2,6,6- PENTAMETHYL-4- PIPERIDINYL) SEBACATE)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(PHENOXY ETHYL ACRYLATE; BIS(1,2,2,6,6- PENTAMETHYL-4- PIPERIDINYL) SEBACATE)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(PHENOXY ETHYL ACRYLATE; BIS(1,2,2,6,6- PENTAMETHYL-4-PIPERIDINYL) SEBACATE)
14.3 Transport hazard class(es)	9	9	9
14.4 Packing group	III	III	III
14.5 Environmental hazards	Environmentally Hazardous	Not applicable	Marine Pollutant
14.6 Special precautions for user	Please refer to the other sections of the SDS for further information.	Please refer to the other sections of the SDS for further information.	Please refer to the other sections of the SDS for further information.
14.7 Transport in bulk according to Annex II of Marpol 73/78 and IBC Code	No data available.	No data available.	No data available.
Control Temperature	No data available.	No data available.	No data available.
Emergency Temperature	No data available.	No data available.	No data available.
ADR Classification Code	M6	Not applicable.	Not applicable.
IMDG Segregation Code	Not applicable.	Not applicable.	NONE

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

SECTION 15: Regulatory information

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

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

None

Seveso named dangerous substances, Annex 1, Part 2

Dangerous Substances	Identifier(s)	Qualifying quantity (tonnes) for the application of	
		Lower-tier	Upper-tier requirements
		requirements	
2-(2-Ethoxyethoxy)ethyl	7328-17-8	200	500
acrylate			

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

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H361df	Suspected of damaging fertility. Suspected of damaging the unborn child.
H361f	Suspected of damaging fertility.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H372	Causes damage to organs through prolonged or repeated exposure: respiratory system.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Revision information:

GB Section 02: CLP Ingredient table information was added.

GB Section 02: Other hazards phrase information was added.

GB Section 04: First Aid - Symptoms and Effects (GB CLP) information was added.

GB Section 04: Information on toxicological effects information was added.

GB Section 12: Classification Warning information was added.

GB Section 15: Chemical Safety Assessment information was added.

GBSDS Section 14 Transport in bulk - Main Heading information was added.

GBSDS Section 14 UN Number information was added.

CLP: Ingredient table information was deleted.

Label: CLP Classification information was modified.

Label: CLP Percent Unknown information was deleted.

Section 02: Label Elements: GB Percent Unknown information was added.

Section 2: Other hazards phrase information was deleted.

- Section 3: Composition/Information of ingredients table information was added.
- Section 3: Composition/Information of ingredients table information was deleted.
- Section 04: First Aid Symptoms and Effects (CLP) information was deleted.
- Section 04: Information on toxicological effects information was deleted.
- Section 9: Flammability (solid, gas) information information was deleted.
- Section 09: Flammability information information was added.
- Section 09: Odor information was modified.
- Section 09: Particle Characteristics N/A information was added.
- Section 9: Vapour density value information was modified.
- Section 11: Acute Toxicity table information was modified.
- Section 11: Classification disclaimer information was deleted.
- Section 11: GB Classification disclaimer information was added.
- Section 11: GB No endocrine disruptor information available warning information was added.
- Section 11: Germ Cell Mutagenicity Table information was modified.
- Section 11: No endocrine disruptor information available warning information was deleted.
- 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: Target Organs Repeated Table information was added.
- Section 11: Target Organs Repeated Table information was deleted.
- Section 11: Target Organs Single Table information was modified.
- Section 12: 12.6. Endocrine Disrupting Properties information was deleted.
- Section 12: 12.6. Other adverse effects information was added.
- Section 12: 12.7. Other adverse effects information was deleted.
- Section 12: Classification Warning information was deleted.
- Section 12: Component ecotoxicity information information was modified.
- Section 12: Mobility in soil information information was modified.
- Prints No Data if Adverse effects information is not present information was deleted.
- Section 12: No endocrine disruptor information available warning information was added.
- Section 12: No endocrine disruptor information available warning information was deleted.
- Section 12: Persistence and Degradability information information was modified.
- Section 12:Bioccumulative potential information information was modified.
- Section 14 Multiplier Main Heading information was deleted.
- Section 14 Multiplier Regulation Data information was deleted.
- Section 14 Other Dangerous Goods Regulation Data information was modified.
- Section 14 Transport Category Main Heading information was deleted.
- Section 14 Transport Category Regulation Data information was deleted.
- Section 14 Marine transport in bulk according to IMO instruments Main Heading information was deleted.
- Section 14 Transport Not Permitted Main Heading information was deleted.
- Section 14 Transport Not Permitted Regulation Data information was deleted.
- Section 14 Tunnel Code Main Heading information was deleted.
- Section 14 Tunnel Code Regulation Data information was deleted.
- Section 14 UN Number information was deleted.
- Section 15: Chemical Safety Assessment information was deleted.
- Section 15: Regulations Inventories information was modified.
- Section 15: Seveso Substance Text information was added.

Two-column table displaying the unique list of H Codes and statements (std phrases) for all components of the given material. information was added.

Two-column table displaying the unique list of H Codes and statements (std phrases) for all components of the given material. information was deleted.

- Section 16: Web address information was added.
- Section 16: Web address information was deleted.
- Section 2: No PBT/vPvB information available warning information was added.

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.