

## 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 Scotch-Weld Threadlocker TL71, Red

**Product Identification Numbers** UU-0015-5274-2

7100040843

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

Identified uses

Adhesive

#### **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 000E Mail:tox.uk@mmm.comWebsite: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 1 - Skin Sens. 1; H317 Specific Target Organ Toxicity-Repeated Exposure, Category 2 - STOT RE 2; H373 Specific Target Organ Toxicity-Single Exposure, Category 3 - STOT SE 3; H335 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

WARNING.

#### Symbols

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

#### **Pictograms**



Ingredient	CAS Nbr	EC No.	% by Wt
2,2'-ethylenedioxydiethyl dimethacrylate	109-16-0	203-652-6	40 - 70
HYDROXYPROPYL METHACRYLATE	27813-02-1	248-666-3	1 - 10
acrylic acid	79-10-7	201-177-9	<= 1.5
$\alpha$ , $\alpha$ -dimethylbenzyl hydroperoxide	80-15-9	201-254-7	< 1.5
2,2'-(p-Tolylimino)diethanol	3077-12-1	221-359-1	< 1
2'-Phenylacetohydrazide	114-83-0	204-055-3	<= 0.5

#### HAZARD STATEMENTS:

H315 H319	Causes skin irritation. Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

#### PRECAUTIONARY STATEMENTS

Prevention:		
P260A	Do not breathe vapours.	
P273	Avoid release to the environment.	
P280E	Wear protective gloves.	
Response:		
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. present and easy to do. Continue rinsing.	Remove contact lenses, if
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.	

## P391 Collect spillage.

#### For containers not exceeding 125 ml the following Hazard and Precautionary statements may be used:

<=125 ml Hazard statements H317	May cause an allergic skin reaction	on.
<=125 ml Precautionary statement	<b>S</b>	
Prevention:		
P260A	Do not breathe vapours.	
P280E	Wear protective gloves.	
<b>Response:</b> P333 + P313	If skin irritation or rash occurs:	Get medical advice/attention.

9% of the mixture consists of components of unknown acute inhalation toxicity. Contains 25% 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
2,2'-ethylenedioxydiethyl dimethacrylate	(CAS-No.) 109-16-0 (EC-No.) 203-652-6	40 - 70	Skin Sens. 1, H317
Polyester Resin (NJTS Reg. No. 04499600-7087)	Trade Secret	10 - 30	Substance not classified as hazardous
HYDROXYPROPYL METHACRYLATE	(CAS-No.) 27813-02-1 (EC-No.) 248-666-3	1 - 10	Eye Irrit. 2, H319 Skin Sens. 1, H317
α, α-dimethylbenzyl hydroperoxide	(CAS-No.) 80-15-9 (EC-No.) 201-254-7	< 1.5	Org. Perox. EF, H242 Acute Tox. 2, H330 Acute Tox. 3, H311 Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 STOT RE 1, H372 Aquatic Chronic 2, H411
acrylic acid	(CAS-No.) 79-10-7 (EC-No.) 201-177-9	<= 1.5	Flam. Liq. 3, H226 Acute Tox. 4, H332 Acute Tox. 4, H312

			Acute Tox. 4, H302 Skin Corr. 1A, H314 STOT SE 3, H335 Aquatic Acute 1, H400,M=1 Nota D Aquatic Chronic 2, H411
2,2'-(p-Tolylimino)diethanol	(CAS-No.) 3077-12-1 (EC-No.) 221-359-1	< 1	Acute Tox. 4, H302 Eye Dam. 1, H318 Skin Sens. 1B, H317 Aquatic Chronic 3, H412
1,2-Benzisothiazol-3(2H)-one 1,1-dioxide	(CAS-No.) 81-07-2 (EC-No.) 201-321-0	<= 1	Substance not classified as hazardous
2'-Phenylacetohydrazide	(CAS-No.) 114-83-0 (EC-No.) 204-055-3	<= 0.5	Acute Tox. 3, H311 Acute Tox. 3, H301 Skin Sens. 1, H317 STOT RE 1, H372 Aquatic Acute 1, H400,M=1 Aquatic Chronic 1, H410,M=10

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
acrylic acid	(CAS-No.) 79-10-7 (EC-No.) 201-177-9	(C >= 1%) STOT SE 3, H335
α, α-dimethylbenzyl hydroperoxide	(CAS-No.) 80-15-9 (EC-No.) 201-254-7	(C >= 10%) Skin Corr. 1B, H314 (3% =< C < 10%) Skin Irrit. 2, H315 (C >= 3%) Eye Dam. 1, H318 (1% =< C < 3%) Eye Irrit. 2, H319 (C >= 10%) STOT SE 3, H335

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

## **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### Inhalation

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

#### Skin contact

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

#### Eye contact

Immediately flush with large amounts of water. 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

No critical symptoms or effects. See Section 11.1, information on toxicological effects.

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

Not applicable

## **SECTION 5: Fire-fighting measures**

#### 5.1. 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

None inherent in this product.

#### Hazardous Decomposition or By-Products

Substance Carbon monoxide Carbon dioxide. Oxides of nitrogen. Oxides of sulphur.

#### 5.3. Advice for fire-fighters

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 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.)

Condition During combustion. During combustion. During combustion. During combustion.

#### 7.2. Conditions for safe storage including any incompatibilities

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
acrylic acid	79-10-7	UK HSC	TWA:29 mg/m3(10	
			ppm);STEL:59 mg/m3(20	
			ppm)	

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

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapours/spray. If ventilation is not adequate, use respiratory protection equipment.

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

#### **Eye/face protection**

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

*Applicable Norms/Standards* Use eye protection conforming to EN 166

#### **Skin/hand protection**

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

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

Applicable Norms/Standards

Use gloves tested to EN 374

#### **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 Specific Physical Form:** Colour Odor **Odour threshold** Melting point/freezing point **Boiling point/boiling range** Flammability (solid, gas) Flammable Limits(LEL) Flammable Limits(UEL) **Flash** point Autoignition temperature **Decomposition temperature** pН **Kinematic Viscosity** Water solubility Solubility- non-water Partition coefficient: n-octanol/water Vapour pressure Densitv **Relative density Relative Vapour Density** 

Liquid. Thixotropic liquid. Red Mild Odor No data available. Not applicable. >=148.9 °C [@ 101,324.72 Pa] Not applicable. No data available. No data available. >=100 °C [*Test Method*: Tagliabue closed cup] No data available. No data available. substance/mixture is non-soluble (in water) 455 mm<sup>2</sup>/sec Negligible No data available. No data available. <=666.6 Pa 1.1 - 1.13 g/ml [@ 20 °C ] 1.1 - 1.13 [@ 20 °C ] [*Ref Std*:WATER=1] 1.01 [*Ref Std*:AIR=1]

#### 9.2. Other information

9.2.2 Other safety characteristics EU Volatile Organic Compounds Evaporation rate Molecular weight

*No data available.* Negligible *No data available.* 

## **SECTION 10: Stability and reactivity**

#### **10.1 Reactivity**

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

#### 10.2 Chemical stability

Stable.

#### 10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

#### **10.4 Conditions to avoid**

Heat. Light.

## **10.5 Incompatible materials**

Strong oxidising agents.

#### 10.6 Hazardous decomposition products

Substance

None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

## **SECTION 11: Toxicological information**

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

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

#### Signs and Symptoms of Exposure

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

#### Inhalation

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

#### Skin contact

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

#### Eye contact

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

#### Ingestion

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:

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. 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.

## **Toxicological Data**

#### Condition

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

#### **Acute Toxicity**

Name	Route	Species	Value
Overall product	Dermal		No data available; calculated ATE >5,000 mg/kg
Overall product	Inhalation- Vapour(4 hr)		No data available; calculated ATE >50 mg/l
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
2,2'-ethylenedioxydiethyl dimethacrylate	Dermal	Professio nal judgeme nt	LD50 estimated to be > 5,000 mg/kg
2,2'-ethylenedioxydiethyl dimethacrylate	Ingestion	Rat	LD50 10,837 mg/kg
HYDROXYPROPYL METHACRYLATE	Dermal	Rabbit	LD50 > 5,000 mg/kg
HYDROXYPROPYL METHACRYLATE	Ingestion	Rat	LD50 > 11,200 mg/kg
acrylic acid	Dermal	Rabbit	LD50 > 2,000 mg/kg
acrylic acid	Inhalation- Dust/Mist (4 hours)	Rat	LC50 3.8 mg/l
acrylic acid	Ingestion	Rat	LD50 1,250 mg/kg
α, α-dimethylbenzyl hydroperoxide	Dermal	Rat	LD50 500 mg/kg
α, α-dimethylbenzyl hydroperoxide	Inhalation- Vapour (4 hours)	Rat	LC50 1.4 mg/l
α, α-dimethylbenzyl hydroperoxide	Ingestion	Rat	LD50 382 mg/kg
1,2-Benzisothiazol-3(2H)-one 1,1-dioxide	Dermal		LD50 estimated to be > 5,000 mg/kg
1,2-Benzisothiazol-3(2H)-one 1,1-dioxide	Ingestion	Mouse	LD50 17,000 mg/kg
2'-Phenylacetohydrazide	Dermal		LD50 estimated to be 200 - 1,000 mg/kg
2'-Phenylacetohydrazide	Ingestion	Mouse	LD50 270 mg/kg
2,2'-(p-Tolylimino)diethanol	Dermal	Rabbit	LD50 > 2,000 mg/kg
2,2'-(p-Tolylimino)diethanol	Ingestion	Rat	LD50 959 mg/kg

ATE = acute toxicity estimate

#### **Skin Corrosion/Irritation**

Name	Species	Value
2,2'-ethylenedioxydiethyl dimethacrylate	Guinea	Mild irritant
	pig	
HYDROXYPROPYL METHACRYLATE	Rabbit	Minimal irritation
acrylic acid	Rabbit	Corrosive
α, α-dimethylbenzyl hydroperoxide	Rabbit	Corrosive
2,2'-(p-Tolylimino)diethanol	Rabbit	No significant irritation

#### Serious Eye Damage/Irritation

Name	Species	Value
2,2'-ethylenedioxydiethyl dimethacrylate	Professio	Moderate irritant
	nal	
	judgemen	
	t	
HYDROXYPROPYL METHACRYLATE	Rabbit	Moderate irritant
acrylic acid	Rabbit	Corrosive
α, α-dimethylbenzyl hydroperoxide	Rabbit	Corrosive
2,2'-(p-Tolylimino)diethanol	Rabbit	Corrosive

#### **Skin Sensitisation**

Name	Species	Value						

2,2'-ethylenedioxydiethyl dimethacrylate	Human and animal	Sensitising
HYDROXYPROPYL METHACRYLATE	Human and animal	Sensitising
acrylic acid	Guinea pig	Not classified
2'-Phenylacetohydrazide	Professio nal judgemen t	Sensitising
2,2'-(p-Tolylimino)diethanol	Mouse	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
2,2'-ethylenedioxydiethyl dimethacrylate	In Vitro	Some positive data exist, but the data are not sufficient for classification
HYDROXYPROPYL METHACRYLATE	In vivo	Not mutagenic
HYDROXYPROPYL METHACRYLATE	In Vitro	Some positive data exist, but the data are not sufficient for classification
acrylic acid	In vivo	Not mutagenic
acrylic acid	In Vitro	Some positive data exist, but the data are not sufficient for classification
α, α-dimethylbenzyl hydroperoxide	In vivo	Not mutagenic
α, α-dimethylbenzyl hydroperoxide	In Vitro	Some positive data exist, but the data are not sufficient for classification
2'-Phenylacetohydrazide	In Vitro	Some positive data exist, but the data are not sufficient for classification
2,2'-(p-Tolylimino)diethanol	In Vitro	Not mutagenic

### Carcinogenicity

Name	Route	Species	Value
2,2'-ethylenedioxydiethyl dimethacrylate	Dermal	Mouse	Not carcinogenic
acrylic acid	Ingestion	Rat	Not carcinogenic
acrylic acid	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification

#### **Reproductive Toxicity**

#### **Reproductive and/or Developmental Effects**

Name	Route	Value	Species	Test result	Exposure Duration
2,2'-ethylenedioxydiethyl dimethacrylate	Ingestion	Not classified for female reproduction	Mouse	NOAEL 1 mg/kg/day	1 generation
2,2'-ethylenedioxydiethyl dimethacrylate	Ingestion	Not classified for male reproduction	Mouse	NOAEL 1 mg/kg/day	1 generation
2,2'-ethylenedioxydiethyl dimethacrylate	Ingestion	Not classified for development	Mouse	NOAEL 1 mg/kg/day	1 generation
HYDROXYPROPYL METHACRYLATE	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	premating into lactation
HYDROXYPROPYL METHACRYLATE	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	49 days
HYDROXYPROPYL METHACRYLATE	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	during gestation
acrylic acid	Ingestion	Not classified for female reproduction	Rat	NOAEL 460 mg/kg/day	2 generation

acrylic acid	Ingestion	Not classified for male reproduction	Rat	NOAEL 460 mg/kg/day	2 generation
acrylic acid	Inhalation	Not classified for development	Rat	NOAEL 1.1 mg/l	during organogenesis
acrylic acid	Ingestion	Not classified for development	Rat	NOAEL 53 mg/kg/day	2 generation

#### Target Organ(s)

#### Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
HYDROXYPROPYL METHACRYLATE	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
acrylic acid	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	
α, α-dimethylbenzyl hydroperoxide	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	occupational exposure
α, α-dimethylbenzyl hydroperoxide	Inhalation	respiratory irritation	May cause respiratory irritation	Human	NOAEL Not available	occupational exposure
α, α-dimethylbenzyl hydroperoxide	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professio nal judgeme nt	NOAEL Not available	
2,2'-(p- Tolylimino)diethanol	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
2,2'-ethylenedioxydiethyl dimethacrylate	Dermal	kidney and/or bladder   blood	Not classified	Mouse	NOAEL 833 mg/kg/day	78 weeks
HYDROXYPROPYL METHACRYLATE	Inhalation	blood	Not classified	Rat	NOAEL 0.5 mg/l	21 days
HYDROXYPROPYL METHACRYLATE	Ingestion	hematopoietic system   heart   endocrine system   liver   immune system   nervous system   kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	41 days
α, α-dimethylbenzyl hydroperoxide	Inhalation	nervous system   respiratory system	Causes damage to organs through prolonged or repeated exposure	Rat	LOAEL 0.2 mg/l	7 days
α, α-dimethylbenzyl hydroperoxide	Inhalation	heart   liver   kidney and/or bladder	Not classified	Rat	NOAEL 0.03 mg/l	90 days
2'-Phenylacetohydrazide	Ingestion	hematopoietic system	Causes damage to organs through prolonged or repeated exposure	Dog	LOAEL 4 mg/kg/day	7 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
2,2'-	109-16-0	Green algae	Experimental	72 hours	ErC50	>100 mg/l
ethylenedioxydieth			1			- C
yl dimethacrylate						
2,2'-	109-16-0	Zebra Fish	Experimental	96 hours	LC50	16.4 mg/l
ethylenedioxydieth			-			_
yl dimethacrylate						
2,2'-	109-16-0	Green algae	Experimental	72 hours	NOEC	18.6 mg/l
ethylenedioxydieth						
yl dimethacrylate						
2,2'-	109-16-0	Water flea	Experimental	21 days	NOEC	32 mg/l
ethylenedioxydieth						
yl dimethacrylate						
HYDROXYPROP	27813-02-1	Bacteria	Experimental	N/A	EC10	1,140 mg/l
YL						
METHACRYLAT						
E				40.1		
	27813-02-1	Golden Orfe	Experimental	48 hours	EC50	493 mg/l
YL METHACRYLAT						
E						
	27813-02-1	Green algae	Experimental	72 hours	ErC50	>97.2 mg/l
YL	2/813-02-1	Green algae	Experimental	72 110015	EICSU	~97.2 IIIg/I
METHACRYLAT						
E						
HYDROXYPROP	27813-02-1	Water flea	Experimental	48 hours	EC50	>143 mg/l
YL	27013 02 1	water nea	Experimental	40 110013	1000	145 mg/1
METHACRYLAT						
E						
HYDROXYPROP	27813-02-1	Green algae	Experimental	72 hours	NOEC	97.2 mg/l
YL			1			- C
METHACRYLAT						
E						
HYDROXYPROP	27813-02-1	Water flea	Experimental	21 days	NOEC	45.2 mg/l
YL						
METHACRYLAT						
E	<b>5</b> 0 10 <b>5</b>			70.1	5050	0.10
acrylic acid	79-10-7	Green algae	Experimental	72 hours	EC50	0.13 mg/l
liaid	70 10 7	Rainbow trout	E	0( 1	1.050	27
acrylic acid	79-10-7	Kallibow trout	Experimental	96 hours	LC50	27 mg/l
acrylic acid	79-10-7	Water flea	Experimental	48 hours	EC50	95 mg/l
activité actu	/9-10-/	water nea	Experimental	48 110015	LC30	95 mg/1
acrylic acid	79-10-7	Green algae	Experimental	72 hours	EC10	0.03 mg/l
deryne derd	/ 10 /	Green argue	Experimental	72 110013	Leio	0.05 mg/1
acrylic acid	79-10-7	Water flea	Experimental	21 days	NOEC	3.8 mg/l
			P			
acrylic acid	79-10-7	N/A	Experimental	7 days	LD50	>=98 mg per kg of
-			-			bodyweight
acrylic acid	79-10-7	N/A	Experimental	48 hours	NOEC	0.9 mg/l
•						
acrylic acid	79-10-7	Activated sludge	Experimental	30 minutes	NOEC	100 mg/l
acrylic acid	79-10-7	Redworm	Experimental	14 days	LC50	>1,000 mg/kg (Dry Weight)
acrylic acid	79-10-7	Soil microbes	Experimental	28 days	NOEC	100 mg/kg (Dry Weight)

	80-15-9	Destania	E	10 1	EC10	0 102
α, α- dimethylbenzyl	80-15-9	Bacteria	Experimental	18 hours	EC10	0.103 mg/l
hydroperoxide						
α, α-	80-15-9	Green algae	Experimental	72 hours	EC50	3.1 mg/l
dimethylbenzyl						
hydroperoxide						
α, α-	80-15-9	Rainbow trout	Experimental	96 hours	LC50	3.9 mg/l
dimethylbenzyl			1			C C
hydroperoxide						
α, α-	80-15-9	Water flea	Experimental	48 hours	EC50	18.84 mg/l
dimethylbenzyl	00 15 9	Water fied	Experimental	40 110015	LCSU	10.04 mg/1
hydroperoxide						
	80-15-9		E : (1	72.1	NOEC	1 /1
α, α-	80-15-9	Green algae	Experimental	72 hours	NOEC	1 mg/l
dimethylbenzyl						
hydroperoxide						
2,2'-(p-	3077-12-1	Activated sludge	Analogous	3 hours	EC50	>1,000 mg/l
Tolylimino)diethan			Compound			
ol			-			
2,2'-(p-	3077-12-1	Common Carp	Analogous	96 hours	LC50	>100 mg/l
Tolylimino)diethan		I	Compound			6
ol			compound			
2,2'-(p-	3077-12-1	Green algae	Analogous	72 hours	ErC50	>100 mg/l
Tolylimino)diethan	5077-12-1	Green algae	Compound	72 Hours	EIC30	>100 mg/1
			Compound			
ol						
2,2'-(p-	3077-12-1	Water flea	Analogous	48 hours	EC50	48 mg/l
Tolylimino)diethan			Compound			
ol						
2,2'-(p-	3077-12-1	Green algae	Analogous	72 hours	NOEC	100 mg/l
Tolylimino)diethan			Compound			
ol			1			
1,2-Benzisothiazol-	81-07-2	Guppy	Analogous	96 hours	LC50	>100 mg/l
3(2H)-one 1,1-	01 07 2	Guppy	Compound	yo nours	Leso	100 mg/1
dioxide			Compound			
1,2-Benzisothiazol-	01 07 2		E	20	LOEC	> 1.000 = /l
	81-07-2	Activated sludge	Experimental	30 minutes	LUEC	>1,000 mg/l
3(2H)-one 1,1-						
dioxide						
1,2-Benzisothiazol-	81-07-2	Green algae	Experimental	72 hours	ErC50	>200 mg/l
3(2H)-one 1,1-						
dioxide						
1,2-Benzisothiazol-	81-07-2	Water flea	Experimental	48 hours	EC50	>1,000 mg/l
3(2H)-one 1,1-			1			, ,
dioxide						
2'-	114-83-0	Medaka	Analogous	96 hours	LC50	0.016 mg/l
Phenylacetohydrazi	117-05-0	1 TOUAKA	Compound	50 nouis	LCJU	0.010 mg/1
			Compound			
de	114.02.0		1. 1	40.1	- FOS	
2'-	114-83-0	Water flea	Analogous	48 hours	EC50	0.016 mg/l
Phenylacetohydrazi			Compound			
de			1			
2'-	114-83-0	Zebra Fish	Analogous	16 days	NOEC	0.00049 mg/l
Phenylacetohydrazi			Compound			
de						
			1			

## 12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
2,2'- ethylenedioxydieth yl dimethacrylate	109-16-0	Experimental Biodegradation	28 days	CO2 evolution	85 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2
HYDROXYPROP YL METHACRYLAT E	27813-02-1	Experimental Biodegradation	28 days	BOD	81 %BOD/ThOD	OECD 301C - MITI test (I)
acrylic acid	79-10-7	Experimental Biodegradation	28 days	Percent degraded	81 %BOD/ThOD	OECD 301D - Closed bottle test
acrylic acid	79-10-7	Estimated Photolysis		Photolytic half-life (in air)	3.2 days (t 1/2)	

acrylic acid	79-10-7	Experimental Biodegradation	3 days	Percent degraded	72.9 %CO2 evolution/THCO2 evolution	
α, α- dimethylbenzyl hydroperoxide	80-15-9	Experimental Biodegradation	28 days	BOD	0 %BOD/ThOD	OECD 301C - MITI test (I)
2,2'-(p- Tolylimino)diethan ol	3077-12-1	Analogous Compound Biodegradation	29 days	CO2 evolution	1.5 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2
1,2-Benzisothiazol- 3(2H)-one 1,1- dioxide	81-07-2	Analogous Compound Biodegradation	28 days	BOD	32.09 %BOD/ThO D	OECD 301F - Manometric respirometry
2'- Phenylacetohydrazi de	114-83-0	Analogous Compound Biodegradation	28 days	Dissolv. Organic Carbon Deplet	97 %removal of DOC	OECD 301E - Modif. OECD Screen

#### **12.3 : Bioaccumulative potential**

Material	Cas No.	Test type	Duration	Study Type	Test result	Protocol
2,2'- ethylenedioxydieth yl dimethacrylate	109-16-0	Experimental Bioconcentration		Log Kow	2.3	EC A.8 Partition Coefficient
HYDROXYPROP YL METHACRYLAT E	27813-02-1	Experimental Bioconcentration		Log Kow	0.97	EC A.8 Partition Coefficient
acrylic acid	79-10-7	Experimental Bioconcentration		Log Kow	0.46	OECD 107 log Kow shke flsk mtd
α, α- dimethylbenzyl hydroperoxide	80-15-9	Experimental Bioconcentration		Log Kow	1.82	
2,2'-(p- Tolylimino)diethan ol	3077-12-1	Experimental Bioconcentration		Log Kow	2.0	
1,2-Benzisothiazol- 3(2H)-one 1,1- dioxide	81-07-2	Experimental Bioconcentration		Log Kow	-0.024	OECD 117 log Kow HPLC method
2'- Phenylacetohydrazi de	114-83-0	Modeled BCF - Fish		Bioaccumulation factor	5	Catalogic™

#### 12.4. Mobility in soil

Material	Cas No.	Test type	Study Type	Test result	Protocol
HYDROXYPROP YL METHACRYLATE	27813-02-1	Experimental Mobility in Soil	Koc	10 l/kg	Episuite™
acrylic acid	79-10-7	Experimental Mobility in Soil	Koc	6-137 l/kg	40CFR796.2750 Sed/Soil Adsorp
2,2'-(p- Tolylimino)diethan ol	3077-12-1	Experimental Mobility in Soil	Koc	214 l/kg	EC C.19 Estim. of Koc by HPLC
1,2-Benzisothiazol- 3(2H)-one 1,1- dioxide	81-07-2	Modeled Mobility in Soil	Koc	23 l/kg	Episuite <sup>™</sup>
2'- Phenylacetohydrazi de	114-83-0	Modeled Mobility in Soil	Кос	64 l/kg	Episuite™

## 12.5. Results of the PBT and vPvB assessment

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

#### **12.6.** Other adverse effects

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

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

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

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

#### EU waste code (product as sold)

08 04 09\* Waste adhesives and sealants containing organic solvents or other dangerous substances
20 01 27\* Paint, inks, adhesives and resins containing dangerous substances

	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.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(1-ACETYL-2- PHENYLHYDRAZINE)
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.

## **SECTION 14: Transportation information**

ADR Classification Code	M6	Not applicable.	Not applicable.
IMDG Segregation Code	Not applicable.	Not applicable.	NONE

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

## **SECTION 15: Regulatory information**

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

Carcinogenicity <u>Ingredient</u>	<u>CAS Nbr</u>	<u>Classification</u>	<b>Regulation</b>
acrylic acid	79-10-7	Gr. 3: Not classifiable	International Agency for Research on Cancer
1,2-Benzisothiazol-3(2H)-one 1,1-dioxide	81-07-2	Gr. 3: Not classifiable	International Agency for Research on Cancer

#### **Global inventory status**

Contact 3M for more information. The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Philippines RA 6969 requirements. Certain restrictions may apply. Contact the selling division for additional information. The components of this product the selling division for additional information. The components of this product the selling division for additional information. The components of this product the selling division for additional 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. 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 requirements	Upper-tier requirements
acrylic acid	79-10-7	50	200
α, α-dimethylbenzyl hydroperoxide	80-15-9	50	200

#### 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

11226	Elemental limit and compare
H226	Flammable liquid and vapour.
H242	Heating may cause a fire.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H372	Causes damage to organs through prolonged or repeated exposure.
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 added.

GB Section 02: Other hazards phrase information was added.

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

GB Section 12: Classification Warning information was added.

GB Section 15: Carcinogenicity information 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.

Industrial Use of Adhesives: Section 16: Annex information was deleted.

Professional Use of Adhesives: Section 16: Annex information was deleted.

Section 2: <125ml Precautionary - Prevention information was modified.

Section 2: <125ml Precautionary - Response information was added.

CLP: Ingredient table information was deleted.

Label: CLP Percent Unknown information was deleted.

Label: CLP Precautionary - Prevention information was modified.

Label: CLP Precautionary - Response information was added.

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 03: SCL table information was added.

Section 03: SCL table information was deleted.

Section 04: Information on toxicological effects information was deleted.

Section 8: 8.2. Exposure controls information information was deleted.

Section 8: 8.2.3. Environmental exposure controls information information was deleted.

Section 8: DNEL table row information was deleted.

Section 8: PNEC table row information was deleted.

Section 9: Property description for optional properties information was modified.

Section 9: Vapour density value 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: No endocrine disruptor information available warning information was deleted.

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 Marine transport in bulk according to IMO instruments - Main Heading information was deleted.

Section 14 UN Number information was deleted.

Section 15: Carcinogenicity information information was deleted.

Section 15: Chemical Safety Assessment information was deleted.

Section 15: Seveso Substance Text information was added.

Section 15: Seveso Substance Text information was deleted.

Annex: Prediction of exposure statement information was deleted.

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

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.