

Safety Data Sheet

Copyright, 2021, 3M Company.

All rights reserved. Copying and/or downloading of this information for the purpose of properly utilizing 3M products is allowed provided that: (1) the information is copied in full with no changes unless prior written agreement is obtained from 3M, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

Document Group: 32-6820-8 **Version Number:** 1.00

Issue Date: 22/09/2021 **Supercedes Date:** Initial Issue

This Safety Data Sheet has been prepared in accordance with the Malaysia Occupational Safety and Health (Chemical Classification, Labelling and Safety Data Sheets) Regulations 2013.

SECTION 1: Identification

1.1. Product identifier

3M(TM) Scotch-Weld(TM) Threadlocker TL71, Red

Product Identification Numbers

62-3496-0160-9 62-3496-1060-0 62-3496-1065-9 62-3496-3960-9 62-3496-5060-6

HB-0040-7427-2 UU-0015-5274-2

1.2. Recommended use and restrictions on use

Recommended use

Adhesive

1.3. Supplier's details

ADDRESS: 3M Malaysia Sdn. Bhd., Level 8, Block F, Oasis Square, No.2, Jalan PJU 1A/7A, Ara Damansara 47301

Petaling, Java, Selangor

Telephone: 03-7884 2888

E Mail: 3mmyehsr@mmm.com Website: www.3M.com.my

1.4. Emergency telephone number

+60 03-7884 2888

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Skin Corrosion/Irritation: Category 2. Serious Eye Damage/Irritation: Category 2.

Skin Sensitizer: Category 1.

Specific Target Organ Toxicity (repeated exposure): Category 2.

Chronic Aquatic Toxicity: Category 2.

2.2. Label elements

Signal word

Warning

Symbols

Exclamation mark | Health Hazard | Environment |

Pictograms



Hazard Statements:

H315 Causes skin irritation. H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H373 May cause damage to organs through prolonged or repeated exposure: nervous

system | respiratory system.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention:

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P273 Avoid release to the environment.

P280E Wear protective gloves.

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.

Disposal:

P501 Dispose of contents/container in accordance with applicable

local/regional/national/international regulations.

2.3. Other hazards

None known

SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
Triethylene Glycol Dimethacrylate	109-16-0	40 - 70
Polyester Resin (NJTS Reg. No. 04499600-	Trade Secret	10 - 30
7087)		
Hydroxypropyl Methacrylate	27813-02-1	1 - 10
Acrylic Acid	79-10-7	<= 1.5
Cumene Hydroperoxide	80-15-9	< 1.5
2,2'-(p-Tolylimino)diethanol	3077-12-1	< 1
Saccharin	81-07-2	<= 1
1-Acetyl-2-Phenylhydrazine	114-83-0	<= 0.5

SECTION 4: First aid measures

4.1. Description of first aid measures

3M(TM) Scotch-Weld(TM) Threadlocker TL71, Red

Inhalation:

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

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. Suitable 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	Condition
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion
Oxides of Nitrogen	During Combustion
Oxides of Sulfur	During Combustion

5.3. Special protective actions 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 vapors, 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 dikes 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 authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. Seal the container. Dispose of collected material as soon as possible in accordance with

applicable local/regional/national/international regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Do not breathe dust/fume/gas/mist/vapors/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 oxidizing agents (eg. chlorine, chromic acid etc.)

7.2. Conditions for safe storage including any incompatibilities

Protect from sunlight. Store away from heat. Store away from oxidizing agents.

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	C.A.S. No.	Agency	Limit type	Additional Comments
Acrylic Acid	79-10-7	ACGIH	TWA:2 ppm	A4: Not class. as human
				carcin, Danger of
				cutaneous absorption
Acrylic Acid	79-10-7	Malaysia OELs	TWA(8 hours):5.9 mg/m3(2	SKIN
		_	ppm)	

ACGIH: American Conference of Governmental Industrial Hygienists

CMRG: Chemical Manufacturer's Recommended Guidelines

Malaysia OELs: Malaysia. Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations

TWA: Time-Weighted-Average STEL: Short Term Exposure Limit

CEIL: Ceiling

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/vapors/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

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: 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

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

information on basic physical and chemical properti	Co
Physical state	Liquid
Specific Physical Form:	Thixotropic Liquid
Color	Red
Odor	Mild Odor
Odor threshold	No Data Available
pH	Not Applicable
Melting point/Freezing point	Not Applicable
Boiling point/Initial boiling point/Boiling range	>=148.9 °C [@ 101,324.72 Pa]
Flash Point	>=100 °C [Test Method: Tagliabue Closed Cup]
Evaporation rate	Negligible
Flammability (solid, gas)	Not Applicable
Flammable Limits(LEL)	No Data Available
Flammable Limits(UEL)	No Data Available
Vapor Pressure	<=666.6 Pa
Vapor Density and/or Relative Vapor Density	1.01 [<i>Ref Std</i> :AIR=1]
Density	1.1 - 1.13 g/ml [@ 20 °C]
Relative Density	1.1 - 1.13 [@ 20 °C] [Ref Std:WATER=1]
Water solubility	Negligible
Solubility- non-water	No Data Available
Partition coefficient: n-octanol/ water	No Data Available
Autoignition temperature	No Data Available
Decomposition temperature	No Data Available
Viscosity/Kinematic Viscosity	500 mPa-s [@ 20 ℃]
Volatile Organic Compounds	
Percent volatile	
VOC Less H2O & Exempt Solvents	< 5 g/l [Test Method:calculated SCAQMD rule 443.1]

Nanoparticles

This material does not contain nanoparticles.

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 polymerization will not occur.

10.4. Conditions to avoid

Heat

Light

10.5. Incompatible materials

Strong oxidizing 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 be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1. Information on Toxicological effects

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

Eve 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 diarrhea.

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/or changes in blood pressure and heart rate.

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

Toxicological Data

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

Acute Toxicity

Name	Route	Species	Value
Overall product	Dermal		No data available; calculated ATE >5,000 mg/kg
Overall product	Inhalation- Vapor(4 hr)		No data available; calculated ATE >50 mg/l
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
Triethylene Glycol Dimethacrylate	Dermal	Professio nal judgeme nt	LD50 estimated to be > 5,000 mg/kg
Triethylene Glycol 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
Cumene Hydroperoxide	Dermal	Rat	LD50 500 mg/kg
Cumene Hydroperoxide	Inhalation- Vapor (4 hours)	Rat	LC50 1.4 mg/l
Cumene Hydroperoxide	Ingestion	Rat	LD50 382 mg/kg
Saccharin	Dermal		LD50 estimated to be > 5,000 mg/kg
Saccharin	Ingestion	Mouse	LD50 17,000 mg/kg
1-Acetyl-2-Phenylhydrazine	Dermal		LD50 estimated to be 200 - 1,000 mg/kg
1-Acetyl-2-Phenylhydrazine	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

All Corrosion/Irraction				
Name	Species	Value		
Triethylene Glycol Dimethacrylate	Guinea	Mild irritant		
	pig			
Hydroxypropyl Methacrylate	Rabbit	Minimal irritation		
Acrylic Acid	Rabbit	Corrosive		
Cumene Hydroperoxide	Rabbit	Corrosive		
2,2'-(p-Tolylimino)diethanol	Rabbit	No significant irritation		

Serious Eye Damage/Irritation

Name	Species	Value
Triethylene Glycol Dimethacrylate	Professio nal judgemen	Moderate irritant
Hydroxypropyl Methacrylate	Rabbit	Moderate irritant
Acrylic Acid	Rabbit	Corrosive
Cumene Hydroperoxide	Rabbit	Corrosive
2,2'-(p-Tolylimino)diethanol	Rabbit	Corrosive

Sensitization:

Skin Sensitization

Skiii Schsittzation				
Name	Species	Value		

3M(TM) Scotch-Weld(TM) Threadlocker TL71, Red

Triethylene Glycol Dimethacrylate	Human	Sensitizing
	and	_
	animal	
Hydroxypropyl Methacrylate	Human	Sensitizing
	and	
	animal	
Acrylic Acid	Guinea	Not classified
	pig	
2,2'-(p-Tolylimino)diethanol	Mouse	Sensitizing

Respiratory Sensitization

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

Germ Cell Mutagenicity

Name	Route	Value		
Triethylene Glycol 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		
Cumene Hydroperoxide	In vivo	Not mutagenic		
Cumene Hydroperoxide	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
Triethylene Glycol 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
Triethylene Glycol Dimethacrylate	Ingestion	Not classified for female reproduction	Mouse	NOAEL 1 mg/kg/day	1 generation
Triethylene Glycol Dimethacrylate	Ingestion	Not classified for male reproduction	Mouse	NOAEL 1 mg/kg/day	1 generation
Triethylene Glycol 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

D 0 C 12

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	
Cumene Hydroperoxide	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	occupational exposure
Cumene Hydroperoxide	Inhalation	respiratory irritation	May cause respiratory irritation	Human	NOAEL Not available	occupational exposure
Cumene 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
Triethylene Glycol 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
Cumene Hydroperoxide	Inhalation	nervous system respiratory system	Causes damage to organs through prolonged or repeated exposure	Rat	LOAEL 0.2 mg/l	7 days
Cumene Hydroperoxide	Inhalation	heart liver kidney and/or bladder	Not classified	Rat	NOAEL 0.03 mg/l	90 days

Aspiration Hazard

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

SECTION 12: Ecological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labeling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

12.1. Toxicity

Acute aquatic hazard:

GHS Acute 3: Harmful to aquatic life.

Chronic aquatic hazard:
GHS Chronic 2: Toxic to aquatic life with long lasting effects

No product test data available

Material	Cas #	Organism	Type	Exposure	Test Endpoint	Test Result
Triethylene	109-16-0	Green Algae	Experimental	72 hours	EC50	>100 mg/l
Glycol			1			
Dimethacrylate						
Triethylene	109-16-0	Zebra Fish	Experimental	96 hours	LC50	16.4 mg/l
Glycol						
Dimethacrylate						
Triethylene	109-16-0	Green algae	Experimental	72 hours	NOEC	18.6 mg/l
Glycol						
Dimethacrylate						
Triethylene	109-16-0	Water flea	Experimental	21 days	NOEC	32 mg/l
Glycol						
Dimethacrylate						
Hydroxypropyl	27813-02-1	Bacteria	Experimental		EC10	1,140 mg/l
Methacrylate						
Hydroxypropyl	27813-02-1	Golden Orfe	Experimental	48 hours	EC50	493 mg/l
Methacrylate						
Hydroxypropyl	27813-02-1	Green Algae	Experimental	72 hours	EC50	>97.2 mg/l
Methacrylate						
Hydroxypropyl	27813-02-1	Water flea	Experimental	48 hours	EC50	>143 mg/l
Methacrylate						
Hydroxypropyl	27813-02-1	Green Algae	Experimental	72 hours	NOEC	97.2 mg/l
Methacrylate						
Hydroxypropyl	27813-02-1	Water flea	Experimental	21 days	NOEC	45.2 mg/l
Methacrylate						
Acrylic Acid	79-10-7	Green algae	Experimental	72 hours	EC50	0.13 mg/l
Acrylic Acid	79-10-7	Rainbow Trout	Experimental	96 hours	LC50	27 mg/l
Acrylic Acid	79-10-7	Water flea	Experimental	48 hours	EC50	95 mg/l
Acrylic Acid	79-10-7	Green algae	Experimental	72 hours	EC10	0.03 mg/l
Acrylic Acid	79-10-7	Water flea	Experimental	21 days	NOEC	3.8 mg/l
Acrylic Acid	79-10-7		Experimental	7 days	LD50	>=98 mg per kg of
						bodyweight
Acrylic Acid	79-10-7		Experimental	48 hours	NOEC	0.9 mg/l
Acrylic Acid	79-10-7	Activated	Experimental	30 minutes	NOEC	100 mg/l
		sludge				
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)
Cumene	80-15-9	Bacteria	Experimental	18 hours	EC10	0.103 mg/l
Hydroperoxide						
Cumene	80-15-9	Green algae	Experimental	72 hours	EC50	3.1 mg/l
Hydroperoxide				1		
Cumene	80-15-9	Rainbow Trout	Experimental	96 hours	LC50	3.9 mg/l
Hydroperoxide						
Cumene	80-15-9	Water flea	Experimental	48 hours	EC50	18.84 mg/l
Hydroperoxide						
Cumene	80-15-9	Green algae	Experimental	72 hours	NOEC	1 mg/l
Hydroperoxide						

2,2'-(p- Tolylimino)diet hanol	3077-12-1	Activated sludge	Estimated	3 hours	EC50	>1,000 mg/l
2,2'-(p- Tolylimino)diet hanol	3077-12-1	Common Carp	Estimated	96 hours	LC50	>100 mg/l
2,2'-(p- Tolylimino)diet hanol	3077-12-1	Green Algae	Estimated	72 hours	EC50	>100 mg/l
2,2'-(p- Tolylimino)diet hanol	3077-12-1	Water flea	Estimated	48 hours	EC50	48 mg/l
2,2'-(p- Tolylimino)diet hanol	3077-12-1	Green Algae	Estimated	72 hours	NOEC	100 mg/l
Saccharin	81-07-2	Guppy	Estimated	96 hours	LC50	>100 mg/l
Saccharin	81-07-2	Activated sludge	Experimental	30 minutes	LOEC	>1,000 mg/l
Saccharin	81-07-2	Green algae	Experimental	72 hours	EC50	>200 mg/l
Saccharin	81-07-2	Water flea	Experimental	48 hours	EC50	>1,000 mg/l
1-Acetyl-2- Phenylhydrazin e	114-83-0	Water flea	Estimated	24 hours	EC50	2 mg/l
1-Acetyl-2- Phenylhydrazin e	114-83-0	Zebra Fish	Estimated	96 hours	LC50	0.16 mg/l
1-Acetyl-2- Phenylhydrazin e	114-83-0	Zebra Fish	Estimated	16 days	NOEC	0.00049 mg/l

12.2. Persistence and degradability

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
Triethylene Glycol Dimethacrylate	109-16-0	Experimental Biodegradation	28 days	Carbon dioxide evolution	85 % weight	OECD 301B - Mod. Sturm or CO2
Hydroxypropyl Methacrylate	27813-02-1	Experimental Biodegradation	28 days	Biological Oxygen Demand	81 % BOD/ThBOD	OECD 301C - MITI (I)
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	28 days	Percent degraded	81 % BOD/ThBOD	OECD 301D - Closed Bottle Test
Acrylic Acid	79-10-7	Experimental Biodegradation	3 days	Percent degraded	72.9 %CO2 evolution/THC O2 evolution	
Cumene Hydroperoxide	80-15-9	Experimental Biodegradation	28 days	Biological Oxygen Demand	0 % BOD/ThBOD	OECD 301C - MITI (I)
2,2'-(p- Tolylimino)diet hanol	3077-12-1	Estimated Biodegradation	29 days	Carbon dioxide evolution	1.5 %CO2 evolution/THC O2 evolution	OECD 301B - Mod. Sturm or CO2
Saccharin	81-07-2	Estimated Biodegradation	28 days	Biological Oxygen	32.09 % BOD/ThBOD	OECD 301F - Manometric Respiro

				Demand		
1-Acetyl-2-	114-83-0	Estimated	28 days	Dissolv.	97 % weight	OECD 301E - Modif.
Phenylhydrazin		Biodegradation	-	Organic	_	OECD Screen
e				Carbon Deplet		

12.3. Bioaccumulative potential

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
Triethylene Glycol Dimethacrylate	109-16-0	Experimental Bioconcentrati on		Log of Octanol/H2O part. coeff	2.3	Non-standard method
Hydroxypropyl Methacrylate	27813-02-1	Experimental Bioconcentrati on		Log of Octanol/H2O part. coeff	0.97	Non-standard method
Acrylic Acid	79-10-7	Experimental Bioconcentrati on		Log of Octanol/H2O part. coeff	0.46	OECD 107 log Kow shke flsk mtd
Cumene Hydroperoxide	80-15-9	Experimental Bioconcentrati on		Log of Octanol/H2O part. coeff	1.82	Non-standard method
2,2'-(p- Tolylimino)diet hanol	3077-12-1	Experimental Bioconcentrati on		Log of Octanol/H2O part. coeff	2.0	Non-standard method
Saccharin	81-07-2	Experimental Bioconcentrati on		Log of Octanol/H2O part. coeff	0.3	Non-standard method
1-Acetyl-2- Phenylhydrazin e	114-83-0	Estimated BCF - Other		Bioaccumulatio n Factor	5	Est: Bioconcentration factor

12.4. Mobility in soil

Please contact manufacturer for more details

12.5 Other adverse effects

No information available

SECTION 13: Disposal considerations

13.1. Disposal methods

According to the Environmental Quality (Scheduled Wastes) Regulations 2005, scheduled waste has to be sent to a prescribed premise for recycling, treatment or disposal. Please approach Kualiti Alam for proper schedule waste classification and disposal.

SECTION 14: Transport Information

Not hazardous for transportation.

Marine Transport (IMDG)

UN Number: None assigned.

Proper Shipping Name: None assigned. Technical Name: None assigned. Hazard Class/Division: None assigned.

3M(TM) Scotch-Weld(TM) Threadlocker TL71, Red

Subsidiary Risk: None assigned.
Packing Group: None assigned.
Limited Quantity: None assigned.
Marine Pollutant: None assigned.

Marine Pollutant Technical Name: None assigned.

Other Dangerous Goods Descriptions:

Not restricted, as per IMDG code 2.10.2.7, marine pollutant exception.

Air Transport (IATA)

UN Number:None assigned.

Proper Shipping Name: None assigned.

Technical Name: None assigned.

Hazard Class/Division: None assigned.

Subsidiary Risk: None assigned.
Packing Group: None assigned.
Limited Quantity: None assigned.
Marine Pollutant: None assigned.

Marine Pollutant Technical Name: None assigned.

Other Dangerous Goods Descriptions:

Not restricted, as per Special Provision A197, environmentally hazardous substance exception.

Transportation classifications are provided as a customer service. As for shipping, YOU remain responsible for complying with all applicable laws and regulations, including proper transportation classification and packaging. 3M's transportation classifications are based on product formulation, packaging, 3M policies and 3M's understanding of applicable current regulations. 3M does not guarantee the accuracy of this classification information. This information applies only to transportation classification and not the packaging, labeling or marking requirements. The above information is only for reference. If you are shipping by air or ocean, YOU are advised to check & meet applicable regulatory requirements.

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 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 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.

SECTION 16: Other information

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.

3M Malaysia SDSs are available at www.3M.com.my