

# **Safety Data Sheet**

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**Document group:** 31-5483-8 Version number: 2.00 **Revision date:** 06/10/2014 28/01/2014 **Supersedes date:** 

**Transportation version number:** 4.00 (26/11/2015)

This Safety Data Sheet has been prepared in accordance with the REACH Regulation (EC) 1907/2006 and its modifications.

# IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE **COMPANY/UNDERTAKING**

#### 1.1. Product identifier

3M(TM) Scotch-Weld(TM) Low Odour Acrylic Adhesive DP8805NS, Green

#### **Product Identification Numbers**

62-2852-1445-8 62-2852-3630-3

### 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 substance or mixture

3M United Kingdom PLC, 3M Centre, Cain Road, Bracknell, Berkshire, RG12 8HT. Address:

+44 (0)1344 858 000 **Telephone:** E Mail: tox.uk@mmm.com www.3M.com/uk Website:

#### 1.4. Emergency telephone number

+44 (0)1344 858 000

This product is a kit or a multipart product which consists of multiple, independently packaged components. A Safety Data Sheet for each of these components is included. Please do not separate the component Safety Data Sheets from this cover page. The document numbers of the MSDSs for components of this product are:

31-5471-3, 31-5464-8

# TRANSPORTATION INFORMATION

62-2852-1445-8

ADR/RID: UN3082, NOT RESTRICTED AS PER SECIAL PROVISION 375, ENVIRONMENTALLY HAZARDOUS SUBSTANCE EXEMPTION, III, --

IMDG-CODE: UN3082, NOT RESTRICTED AS PER IMDG CODE 2.10.2.7, MARINE POLLUTANT EXCEPTION, III, IMDG-Code segregation code: NONE, EMS: --.

ICAO/IATA: UN3082, NOT RESTRICTED AS PER SPECIAL PROVISION A197, ENVIRONMENTALLY HAZARDOUS SUBSTANCE EXCEPTION, III.

62-2852-3630-3

**ADR/RID:** UN3082, NOT RESTRICTED AS PER SECIAL PROVISION 375, ENVIRONMENTALLY HAZARDOUS SUBSTANCE EXEMPTION, III, --.

IMDG-CODE: UN3082, NOT RESTRICTED AS PER IMDG CODE 2.10.2.7, MARINE POLLUTANT EXCEPTION, III,

IMDG-Code segregation code: NONE, EMS: --.

ICAO/IATA: UN3082, NOT RESTRICTED AS PER SPECIAL PROVISION A197, ENVIRONMENTALLY

HAZARDOUS SUBSTANCE EXCEPTION, III.

### KIT LABEL

#### 2.2. Label elements CLP REGULATION (EC) No 1272/2008

# SIGNAL WORD

WARNING!

#### **Symbols:**

GHS07 (Exclamation mark) |GHS09 (Environment) |

#### **Pictograms**





### **HAZARD STATEMENTS:**

H319 Causes serious eye irritation. H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects.

### PRECAUTIONARY STATEMENTS

**Prevention:** 

P280E Wear protective gloves.

P273 Avoid release to the environment.

**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.

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.

#### <=125 ml Precautionary statements

**Prevention:** 

P280E Wear protective gloves.

Response:

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

Refer to Safety Data Sheet for component % unknown values (www.3M.com/msds).

#### Dangerous substances(67/548/EEC)/preparations(1999/45/EC) directive

#### Symbol(s)







Oxidizing

Dangerous for the

environment

#### **Contains:**

Consult the component labels for disclosable ingredients.

#### Risk phrases

R7 May cause fire.

R36/38 Irritating to eyes and skin.

R43 May cause sensitisation by skin contact.

R50/53 Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

#### Safety phrases

S3/7 Keep container tightly closed in a cool place.

S14C Keep away from oxidising or reducing agents, accelerators or combustibles. S36/37/39B Wear suitable protective clothing, gloves, and eye and face protection.

S61 Avoid release to the environment. Refer to special instructions/safety data sheets.

#### Notes on labelling

For containers <125 mL, label with: O, Xi, N; R43 and S24-37.

#### **Revision information:**

**Revision Changes:** 

Section 1: Product name information was modified.

Kit: Component document group number(s) information was modified.

Page Heading: Product name information was modified.

Section 1: Product identification numbers heading information was modified.

Section 1: Initial issue message information was modified.

Telephone header information was modified.

Company Telephone information was modified.

Section 1: Identified uses header information was added.

Label: CLP <125ml - Header information was added.

Label: CLP <125ml Hazard - Header information was added. Section 2: <125ml Hazard - Health information was added.

Label: CLP <125ml Precautionary - Header information was added.

Label: CLP <125ml Precautionary - Prevention - Header information was added.

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

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

Label: CLP Percent Unknown - Kit information was added.

Section 2: Notes on labelling heading information was deleted.

Section 15: Label remarks and EU Detergent information was deleted.

Page: 4 of 4



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 15/09/2015
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 10/06/2015

**Transportation version number:** 1.00 (27/08/2013)

This Safety Data Sheet has been prepared in accordance with the REACH Regulation (EC) 1907/2006 and its modifications.

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

#### 1.1. Product identifier

3M(TM) Scotch-Weld(TM) Low Odour Acrylic Adhesive DP8805NS, Green, Part A

#### 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 858 000

 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

CLP REGULATION (EC) No 1272/2008

#### **CLASSIFICATION:**

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

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

CLP REGULATION (EC) No 1272/2008

# SIGNAL WORD

WARNING.

Symbols:

GHS07 (Exclamation mark) |GHS09 (Environment) |

**Pictograms** 





Ingredient CAS Nbr
Tert-butyl 3,5,5-trimethylperoxyhexanoate 13122-18-4

**HAZARD STATEMENTS:** 

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

**Prevention:** 

P280E Wear protective gloves.

P273 Avoid release to the environment.

**Response:** 

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.

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.

<=125 ml Precautionary statements

**Prevention:** 

P280E Wear protective gloves.

Response:

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

Contains 36% of components with unknown hazards to the aquatic environment.

2.3. Other hazards

None known.

# **SECTION 3: Composition/information on ingredients**

Ingredient	CAS Nbr	EU Inventory	% by Wt	Classification
Oxydipropyl dibenzoate	27138-31-4	EINECS 248-	45 - 65	
		258-5		

% by Wt

0.1 - 10

Styrene, polymer with 1,3-Butadiene,	25101-28-4		10 - 30	
butylacrylate and methyl methacrylate				
Catalyst (NJTS Reg. No. 04499600-6922)	Trade Secret		1 - 15	
Tert-butyl 3,5,5-trimethylperoxyhexanoate	13122-18-4	EINECS 236-	0.1 - 10	Org. Perox. CD, H242; Aquatic
		050-7		Acute 1, H400,M=1; Aquatic
				Chronic 1, H410,M=1 (Vendor)
				Skin Sens. 1B, H317 (Self
				Classified)

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

Please refer to section 15 for any applicable Notas that have been applied to the above components

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

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, 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

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

Part of the oxygen for combustion is supplied by the peroxide itself.

#### **Hazardous Decomposition or By-Products**

Substance
Carbon monoxide.

Condition

During combustion. During combustion.

### 5.3. Advice for fire-fighters

Carbon dioxide.

No special protective actions for fire-fighters are anticipated.

\_\_\_\_\_

# **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

Avoid breathing 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.)

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

Keep cool. Store away from heat. Store away from acids. Store away from strong bases. Store away from oxidising agents. Store away from amines.

#### 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

No occupational exposure limit values exist for any of the components listed in Section 3 of this Safety Data Sheet.

#### **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

None required.

#### 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

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron - polymer laminate

#### Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapours and particulates

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

# **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state Liquid.
Specific Physical Form: Paste

Appearance/Odour Blue, ester odour **Odour threshold** No data available. рH Not applicable. >=65.6 °C Boiling point/boiling range Melting point Not applicable. Flammability (solid, gas) Not applicable. **Explosive properties** Not classified **Oxidising properties** Not classified

Flash point > 93.3 °C [Test Method:Closed Cup]

Autoignition temperature

Flammable Limits(LEL)

Flammable Limits(UEL)

Vapour pressure

Poloting despite

No data available.

No data available.

No data available.

**Relative density** 1.08 [*Ref Std:* WATER=1]

Water solubility Nil

Solubility- non-waterNo data available.Partition coefficient: n-octanol/waterNo data available.Evaporation rateNo data available.Decomposition temperatureNo data available.Viscosity20 - 25 Pa-sDensity1.08 g/ml

#### 9.2. Other information

Data is not available for other physical and chemical parameters.

# **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.

Sparks and/or flames.

#### 10.5 Incompatible materials

Amines.

Strong acids.

Strong bases.

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 EU 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 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.

#### Skin contact

Contact with the skin during product use is not expected to result in significant irritation. Allergic skin reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

#### Eye contact

Contact with the eyes during product use is not expected to result in significant irritation.

#### Ingestion

May be harmful if swallowed.

### **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	Ingestion		No data available; calculated ATE2,000 - 5,000 mg/kg
Oxydipropyl dibenzoate	Dermal	Rat	LD50 > 2,000 mg/kg
Oxydipropyl dibenzoate	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > 200 mg/l
Oxydipropyl dibenzoate	Ingestion	Rat	LD50 3,295 mg/kg
Styrene, polymer with 1,3-Butadiene, butylacrylate and methyl methacrylate	Ingestion	Rat	LD50 > 5,000 mg/kg
Catalyst (NJTS Reg. No. 04499600-6922)	Dermal	Professio nal judgeme nt	LD50 estimated to be 2,000 - 5,000 mg/kg
Catalyst (NJTS Reg. No. 04499600-6922)	Ingestion	Rat	LD50 > 2,000 mg/kg
Tert-butyl 3,5,5-trimethylperoxyhexanoate	Dermal	Rat	LD50 > 2,000 mg/kg
Tert-butyl 3,5,5-trimethylperoxyhexanoate	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > 0.8 mg/l
Tert-butyl 3,5,5-trimethylperoxyhexanoate	Ingestion	Rat	LD50 12,905 mg/kg

 $ATE = \overline{acute\ toxicity\ estimate}$ 

#### Skin Corrosion/Irritation

Name	Species	Value
Oxydipropyl dibenzoate	Rabbit	No significant irritation
Tert-butyl 3,5,5-trimethylperoxyhexanoate	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
Oxydipropyl dibenzoate	Rabbit	No significant irritation
Tert-butyl 3,5,5-trimethylperoxyhexanoate	Rabbit	No significant irritation

#### **Skin Sensitisation**

Name	Species	Value
Oxydipropyl dibenzoate	Guinea pig	Not sensitising
Catalyst (NJTS Reg. No. 04499600-6922)	Mouse	Not sensitising
Tert-butyl 3,5,5-trimethylperoxyhexanoate	Guinea	Sensitising
	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
Oxydipropyl dibenzoate	In Vitro	Not mutagenic
Catalyst (NJTS Reg. No. 04499600-6922)	In Vitro	Not mutagenic

#### Carcinogenicity

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

#### Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
Oxydipropyl dibenzoate	Ingestion	Not toxic to female reproduction	Rat	NOAEL 500 mg/kg/day	2 generation
Oxydipropyl dibenzoate	Ingestion	Not toxic to male reproduction	Rat	NOAEL 400 mg/kg/day	2 generation
Oxydipropyl dibenzoate	Ingestion	Some positive developmental data exist, but the data are not sufficient for classification	Rat	NOAEL 1,000 mg/kg/day	during gestation

#### Target Organ(s)

Specific Target Organ Toxicity - single exposure

Speeme ranger organ	prome 1 miger organ romercy single enposure								
Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration			
Catalyst (NJTS Reg. No. 04499600-6922)	Ingestion	nervous system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 2,000 mg/kg				

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Oxydipropyl dibenzoate	Ingestion	hematopoietic	Some positive data exist, but the	Rat	NOAEL	90 days
		system   liver	data are not sufficient for		2,500	
			classification		mg/kg/day	

#### **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.

# **SECTION 12: Ecological information**

The information below may not agree with the EU 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 Nbr	Organism	Type	Exposure	Test endpoint	Test result
Oxydipropyl dibenzoate	27138-31-4	Water flea	Experimental	48 hours	EC50	19.31 mg/l
Oxydipropyl	27138-31-4	Fathead	Experimental	96 hours	LC50	3.7 mg/l
dibenzoate		minnow				
Oxydipropyl	27138-31-4	Green Algae	Experimental	72 hours	EC50	4.9 mg/l
dibenzoate						
Catalyst (NJTS	Trade Secret		Data not			
Reg. No.			available or			

04499600- 6922)			nsufficient for classification		
Styrene, polymer with 1,3-Butadiene, butylacrylate and methyl methacrylate	25101-28-4	a	Data not available or nsufficient for classification		
Tert-butyl 3,5,5- trimethylperox yhexanoate	13122-18-4	a ii	Data not available or insufficient for classification		

# 12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Styrene,	25101-28-4	Data not	N/A	N/A	N/A	N/A
polymer with		available or				
1,3-Butadiene,		insufficient for				
butylacrylate		classification				
and methyl						
methacrylate						
Tert-butyl	13122-18-4	Data not	N/A	N/A	N/A	N/A
3,5,5-		available or				
trimethylperox		insufficient for				
yhexanoate		classification				
Oxydipropyl	27138-31-4	Experimental	28 days	CO2 evolution	85 % weight	OECD 301B - Modified
dibenzoate		Biodegradation				sturm or CO2
Catalyst (NJTS	Trade Secret	Modeled	28 days	BOD	30.6 % weight	OECD 301C - MITI
Reg. No.		Biodegradation				test (I)
04499600-						
6922)						

# 12.3 : Bioaccumulative potential

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Tert-butyl	13122-18-4	Data not	N/A	N/A	N/A	N/A
3,5,5-		available or				
trimethylperox		insufficient for				
yhexanoate		classification				
Styrene, polymer with 1,3-Butadiene, butylacrylate and methyl methacrylate	25101-28-4	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Oxydipropyl dibenzoate	27138-31-4	Estimated Bioconcentrati on		Bioaccumulatio n factor	8	Estimated: Bioconcentration factor
Catalyst (NJTS Reg. No. 04499600- 6922)	Trade Secret	Modeled Bioconcentrati on		Bioaccumulatio n factor	4.84	Other methods

# 12.4. Mobility in soil

\_\_\_\_\_\_

Please contact manufacturer for more details

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

No information available at this time, contact manufacturer for more details

#### 12.6. Other adverse effects

No information available.

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

See Section 11.1 Information on toxicological effects

Dispose of completely cured (or polymerised) 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

# **SECTION 14: Transportation information**

ADR/IATA/IMDG: For transport information please see the kit cover.

# **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.

#### 15.2. Chemical Safety Assessment

Not applicable

### **SECTION 16: Other information**

#### List of relevant H statements

H242 Heating may cause a fire.

H317 May cause an allergic skin reaction.

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.

#### **Revision information:**

- Section 3: Composition/ Information of ingredients table information was modified.
- Section 11: Acute Toxicity table information was modified.
- Section 11: Germ Cell Mutagenicity Table information was modified.
- Section 11: Skin Sensitization Table information was modified.
- Section 11: Target Organs Single Table information was modified.
- Section 12: Component ecotoxicity information information was modified.
- Section 12: Persistence and Degradability information information was modified.
- Section 12:Bioccumulative potential information information was modified.
- Section 14: Transportation classification information was modified.

DISCLAIMER: The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications.

3M United Kingdom MSDSs are available at www.3M.com/uk



# **Safety Data Sheet**

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 Document group:
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 Version number:
 3.00

 Revision date:
 02/09/2015
 Supersedes date:
 06/10/2014

**Transportation version number:** 1.00 (28/01/2014)

This Safety Data Sheet has been prepared in accordance with the REACH Regulation (EC) 1907/2006 and its modifications.

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

#### 1.1. Product identifier

3M(TM) Scotch-Weld(TM) Low Odour Acrylic Adhesive DP8805NS, Green, Part B

#### 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 858 000 **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 CLP REGULATION (EC) No 1272/2008

#### **CLASSIFICATION:**

Serious Eye Damage/Eye Irritation, Category 2 - Eye Irrit. 2; H319 Skin Corrosion/Irritation, Category 2 - Skin Irrit. 2; H315

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

Hazardous to the Aquatic Environment (Acute), Category 1 - Aquatic Acute 1; H400 Hazardous to the Aquatic Environment (Chronic), Category 1 - Aquatic Chronic 1; H410

For full text of H phrases, see Section 16.

#### 2.2. Label elements

CLP REGULATION (EC) No 1272/2008

SIGNAL WORD

#### WARNING.

#### **Symbols:**

GHS07 (Exclamation mark) |GHS09 (Environment) |

**Pictograms** 





Ingredient CAS Nbr % by Wt 2-Hydroxyethyl methacrylate 868-77-9 10 - 30

**HAZARD STATEMENTS:** 

H319 Causes serious eye irritation.
H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects.

#### PRECAUTIONARY STATEMENTS

**Prevention:** 

P280E Wear protective gloves.

P273 Avoid release to the environment.

**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.

#### 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.

#### <=125 ml Precautionary statements

**Prevention:** 

P280E Wear protective gloves.

**Response:** 

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

2% of the mixture consists of components of unknown acute oral toxicity.

Contains 12% of components with unknown hazards to the aquatic environment.

#### 2.3. Other hazards

None known.

# **SECTION 3: Composition/information on ingredients**

Ingredient	CAS Nbr	<b>EU Inventory</b>	% by Wt	Classification
Tetrahydrofurfuryl methacrylate	2455-24-5	EINECS 219-	25 - 45	Skin Irrit. 2, H315; Eye Irrit. 2,
		529-5		H319 (Self Classified)
2-Hydroxyethyl methacrylate	868-77-9	EINECS 212-	10 - 30	Skin Irrit. 2, H315; Eye Irrit. 2,
		782-2		H319; Skin Sens. 1, H317 - Nota
				D (CLP)
Fillers (NJTS Reg. No. 04499600-6923)	Trade Secret		10 - 30	
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl	7534-94-3	EINECS 231-	1 - 20	Aquatic Chronic 2, H411 (Self
methacrylate		403-1		Classified)
Acrylonitrile - butadiene polymer	9003-18-3		1 - 20	
Phosphate Esters of PPG Methacrylate	Trade Secret		0.1 - 10	
(NJTS Reg. No. 04499600-6924)				
Bisphenol A dimethacrylate, ethoxylated	41637-38-1		0.1 - 10	
Silicon dioxide	Trade Secret		1 - 5	
Naphthenic acids, copper salts	1338-02-9	EINECS 215-	< 0.1	Flam. Liq. 3, H226; Acute Tox.
		657-0		4, H302 (CLP)
				Aquatic Acute 1, H400,M=1000;
				Aquatic Chronic 1,
				H410,M=1000 (Self Classified)

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

Please refer to section 15 for any applicable Notas that have been applied to the above components

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

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.

### Condition

During combustion. During combustion. During combustion.

#### 5.3. Advice for fire-fighters

No special protective actions for fire-fighters are anticipated.

# **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

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

Avoid breathing 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.)

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

Store away from heat. Store away from acids. Store away from strong bases. Store away from oxidising agents. Store away from amines.

#### 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 **Additional comments CAS Nbr** Agency Limit type

Fillers (NJTS Reg. No. 04499600- Trade Secret UK HSC TWA (as respirable dust): 2

6923)  $mg/m^3$ 

Silicon dioxide Trade Secret UK HSC

TWA(as inhalable dust):6 mg/m3;TWA(as respirable

dust):2.4 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

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.

#### 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.

Gloves made from the following material(s) are recommended:

Material Thickness (mm) **Breakthrough Time** No data available Fluoroelastomer No data available

#### 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.

# **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties

Physical state Liquid. **Specific Physical Form:** Paste

Appearance/Odour White, acrylate odour No data available. **Odour threshold** Not applicable. рH >=37.8 °C Boiling point/boiling range Melting point Not applicable. Not applicable. Flammability (solid, gas) **Explosive properties** Not classified

**Oxidising properties** > 93.3 °C [Test Method:Closed Cup] Flash point

Not classified

**Autoignition temperature** No data available. No data available. Flammable Limits(LEL) Flammable Limits(UEL) No data available. Vapour pressure No data available.

Relative density 1.13 [*Ref Std*:WATER=1]

Water solubility Nil

Solubility- non-water No data available. Partition coefficient: n-octanol/water No data available. No data available. **Evaporation rate** No data available. **Decomposition temperature** 100 - 125 Pa-s Viscosity 1.13 g/ml **Density** 

9.2. Other information

2.8 g/l [Details: when used as intended with Part A] VOC less H2O & exempt solvents VOC less H2O & exempt solvents 0.3 % [Details: when used as intended with Part A]

# **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.

Sparks and/or flames.

#### 10.5 Incompatible materials

Amines. Strong acids. Strong bases.

Strong oxidising agents.

#### 10.6 Hazardous decomposition products

**Condition** 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 EU 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 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.

#### 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.

#### **Toxicological Data**

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

#### **Acute Toxicity**

Name	Route	Species	Value
Overall product	Dermal		No data available; calculated ATE >5,000 mg/kg
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
Tetrahydrofurfuryl methacrylate	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg
2-Hydroxyethyl methacrylate	Dermal	Rabbit	LD50 > 5,000 mg/kg
2-Hydroxyethyl methacrylate	Ingestion	Rat	LD50 5,564 mg/kg
Acrylonitrile - butadiene polymer	Dermal	Rabbit	LD50 > 15,000 mg/kg
Acrylonitrile - butadiene polymer	Ingestion	Rat	LD50 > 30,000 mg/kg
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	Dermal	Rabbit	LD50 > 3,000 mg/kg
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	Ingestion	Rat	LD50 > 2,000 mg/kg
Fillers (NJTS Reg. No. 04499600-6923)	Dermal		LD50 estimated to be > 5,000 mg/kg
Fillers (NJTS Reg. No. 04499600-6923)	Ingestion	Human	LD50 > 15,000 mg/kg
Bisphenol A dimethacrylate, ethoxylated	Dermal	Professio	LD50 estimated to be > 5,000 mg/kg
		nal	
		judgeme	
		nt	
Bisphenol A dimethacrylate, ethoxylated	Ingestion	Rat	LD50 > 2,000 mg/kg
Silicon dioxide	Dermal	Rabbit	LD50 > 5,000 mg/kg
Silicon dioxide	Inhalation-	Rat	LC50 > 0.691 mg/l
	Dust/Mist		
	(4 hours)		
Silicon dioxide	Ingestion	Rat	LD50 > 5,110 mg/kg

Naphthenic acids, copper salts	Dermal	estimated to be > 5,000 mg/kg
Naphthenic acids, copper salts	Inhalation- Dust/Mist	estimated to be > 12.5 mg/l
Naphthenic acids, copper salts	Inhalation- Vapor	estimated to be > 50 mg/l
Naphthenic acids, copper salts	Ingestion	estimated to be 300 - 2,000 mg/kg

ATE = acute toxicity estimate

# Skin Corrosion/Irritation

Name	Species	Value
Tetrahydrofurfuryl methacrylate	similar	Irritant
	compoun ds	
2-Hydroxyethyl methacrylate	Rabbit	Minimal irritation
Acrylonitrile - butadiene polymer	Professio	No significant irritation
	nal	
	judgemen	
	t	
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	Rabbit	Mild irritant
Fillers (NJTS Reg. No. 04499600-6923)	Professio	No significant irritation
	nal	
	judgemen	
	t	
Silicon dioxide	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
Tetrahydrofurfuryl methacrylate	similar compoun ds	Severe irritant
2-Hydroxyethyl methacrylate	Rabbit	Moderate irritant
Acrylonitrile - butadiene polymer	Professio nal judgemen t	No significant irritation
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	Rabbit	Mild irritant
Fillers (NJTS Reg. No. 04499600-6923)	Professio nal judgemen t	No significant irritation
Silicon dioxide	Rabbit	No significant irritation

# **Skin Sensitisation**

Name	Species	Value
Tetrahydrofurfuryl methacrylate	Human	Some positive data exist, but the data are not sufficient for classification
2-Hydroxyethyl methacrylate	Human	Sensitising
	and	
	animal	
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	Guinea	Not sensitising
	pig	
Bisphenol A dimethacrylate, ethoxylated	Guinea	Not sensitising
	pig	
Silicon dioxide	Human	Not sensitising
	and	
	animal	

# **Respiratory Sensitisation**

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

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**Germ Cell Mutagenicity** 

Name		Value
2-Hydroxyethyl methacrylate	In vivo	Not mutagenic
2-Hydroxyethyl methacrylate	In Vitro	Some positive data exist, but the data are not sufficient for classification
Bisphenol A dimethacrylate, ethoxylated	In Vitro	Not mutagenic
Silicon dioxide	In Vitro	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
Fillers (NJTS Reg. No. 04499600-6923)	Inhalation	Multiple	Not carcinogenic
		animal	
		species	
Silicon dioxide	Not	Mouse	Some positive data exist, but the data are not
	specified.		sufficient for classification

# Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
2-Hydroxyethyl methacrylate	Ingestion	Not toxic to female reproduction	Rat	NOAEL 1,000 mg/kg/day	premating & during gestation
2-Hydroxyethyl methacrylate	Ingestion	Not toxic to male reproduction	Rat	NOAEL 1,000 mg/kg/day	49 days
2-Hydroxyethyl methacrylate	Ingestion	Not toxic to development	Rat	NOAEL 1,000 mg/kg/day	premating & during gestation
Silicon dioxide	Ingestion	Not toxic to female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
Silicon dioxide	Ingestion	Not toxic to male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
Silicon dioxide	Ingestion	Not toxic to development	Rat	NOAEL 1,350 mg/kg/day	during organogenesis

# Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Tetrahydrofurfuryl methacrylate	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Fillers (NJTS Reg. No. 04499600-6923)	Inhalation	pneumoconiosis	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL NA	occupational exposure
Fillers (NJTS Reg. No. 04499600-6923)	Inhalation	pulmonary fibrosis	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL Not available	
Silicon dioxide	Inhalation	respiratory system   silicosis	All data are negative	Human	NOAEL Not available	occupational exposure

### **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.

# **SECTION 12: Ecological information**

The information below may not agree with the EU 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 Nbr	Organism	Type	Exposure	Test endpoint	Test result
Naphthenic acids, copper salts	1338-02-9	Water flea	Experimental	48 hours	EC50	0.34 mg/l
Naphthenic acids, copper salts	1338-02-9	Fish	Experimental	96 hours	LC50	0.00034 mg/l
2- Hydroxyethyl methacrylate	868-77-9	Water flea	Experimental	48 hours	EC50	380 mg/l
2- Hydroxyethyl methacrylate	868-77-9	Fathead minnow	Experimental	96 hours	LC50	227 mg/l
Exo-1,7,7- trimethylbicycl o[2.2.1]hept-2- yl methacrylate	7534-94-3	Green Algae	Experimental	96 hours	EC50	2.7 mg/l
Exo-1,7,7- trimethylbicycl o[2.2.1]hept-2- yl methacrylate	7534-94-3	Water flea	Experimental	48 hours	EC50	1.1 mg/l
Exo-1,7,7- trimethylbicycl o[2.2.1]hept-2- yl methacrylate	7534-94-3	Zebra Fish	Experimental	96 hours	LC50	1.8 mg/l
Tetrahydrofurf uryl methacrylate	2455-24-5	Fathead minnow	Experimental	96 hours	LC50	34.7 mg/l
2- Hydroxyethyl methacrylate	868-77-9	Green Algae	Experimental	72 hours	EC50	345 mg/l
2- Hydroxyethyl methacrylate	868-77-9	Green Algae	Experimental	72 hours	NOEC	160 mg/l
2- Hydroxyethyl methacrylate	868-77-9	Water flea	Experimental	21 days	NOEC	24.1 mg/l
Acrylonitrile - butadiene polymer	9003-18-3		Data not available or insufficient for classification			
Bisphenol A	41637-38-1		Data not			

dimethacrylate,		available or		
ethoxylated		insufficient for		
		classification		
Silicon dioxide	Trade Secret	Data not		
		available or		
		insufficient for		
		classification		
Fillers (NJTS	Trade Secret	Data not		
Reg. No.		available or		
04499600-		insufficient for		
6923)		classification		

# 12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
2- Hydroxyethyl methacrylate	868-77-9	Experimental Hydrolysis		Hydrolytic half-life	10.9 days (t 1/2)	Other methods
Fillers (NJTS Reg. No. 04499600- 6923)	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Acrylonitrile - butadiene polymer	9003-18-3	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Silicon dioxide	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
2- Hydroxyethyl methacrylate	868-77-9	Experimental Biodegradation	14 days	BOD	95 % weight	OECD 301C - MITI test (I)
Exo-1,7,7- trimethylbicycl o[2.2.1]hept-2- yl methacrylate	7534-94-3	Estimated Photolysis		Photolytic half- life (in air)	1.12 days (t 1/2)	Other methods
Exo-1,7,7- trimethylbicycl o[2.2.1]hept-2- yl methacrylate	7534-94-3	Experimental Biodegradation	28 days	BOD	26.8 % weight	OECD 301D - Closed bottle test
Naphthenic acids, copper salts	1338-02-9	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Bisphenol A dimethacrylate, ethoxylated	41637-38-1	Calculated Biodegradation	28 days	BOD	38 % weight	OECD 301C - MITI test (I)
Tetrahydrofurf uryl methacrylate	2455-24-5	Estimated Biodegradation	28 days	BOD	85.9 % weight	Other methods

# 12.3 : Bioaccumulative potential

	Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
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Acrylonitrile -	9003-18-3	Data not	N/A	N/A	N/A	N/A
butadiene		available or				
polymer		insufficient for				
		classification				
Silicon dioxide	Trade Secret	Data not	N/A	N/A	N/A	N/A
		available or				
		insufficient for				
		classification				
Fillers (NJTS	Trade Secret	Data not	N/A	N/A	N/A	N/A
Reg. No.		available or				
04499600-		insufficient for				
6923)		classification				
Bisphenol A	41637-38-1	Calculated		Bioaccumulatio	6.7	Estimated:
dimethacrylate,		Bioconcentrati		n factor		Bioconcentration factor
ethoxylated		on				
Tetrahydrofurf	2455-24-5	Estimated		Log Kow	1.80	Other methods
uryl		Bioconcentrati				
methacrylate		on				
2-	868-77-9	Experimental		Log Kow	0.47	Other methods
Hydroxyethyl		Bioconcentrati				
methacrylate		on				
Exo-1,7,7-	7534-94-3	Estimated		Bioaccumulatio	37.4	Other methods
trimethylbicycl		Bioconcentrati		n factor		
o[2.2.1]hept-2-		on				
yl methacrylate						
Naphthenic	1338-02-9	Experimental		Log Kow	4.1	Other methods
acids, copper		Bioconcentrati				
salts		on				

#### 12.4. Mobility in soil

Please contact manufacturer for more details

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

No information available at this time, contact manufacturer for more details

#### 12.6. Other adverse effects

No information available.

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

See Section 11.1 Information on toxicological effects

Dispose of completely cured (or polymerised) 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)

Waste adhesives and sealants containing organic solvents or other dangerous substances 08 04 09\*

20 01 27\* Paint, inks, adhesives and resins containing dangerous substances

# **SECTION 14: Transportation information**

ADR: UN3082 Environmental Hazardous Substance, Liquid, N.O.S. (Isobornyl Methacrylate and Copper Salt); 9; III; (E);

IMDG: UN3082 Environmental Hazardous Substance, Liquid, N.O.S. (Isobornyl Methacrylate and Copper Salt); 9; III; EMS:

FA, SF; Marine Pollutant: Isobornyl Methacrylate and Copper Salt

IATA: UN3082 Environmental Hazardous Substance, Liquid, N.O.S. (Isobornyl Methacrylate and Copper Salt); 9; III

# **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 China "Measures on Environmental Management of New Chemical Substance". Certain restrictions may apply. Contact the selling division for additional 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 product are in compliance with the chemical notification requirements of TSCA.

#### 15.2. Chemical Safety Assessment

Not applicable

### **SECTION 16: Other information**

#### List of relevant H statements

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
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.

# **Revision information:**

Section 2: Indication of danger information information was deleted.

Label: Graphic Text information was deleted.

Label: Graphic information was deleted.

Label: Signal Word information was modified.

Section 2: Label ingredient information information was deleted.

Section 2: Label remarks information was deleted.

Section 2: R phrase reference information was deleted.

Risk phrase information was deleted.

Safety phrase information was deleted.

Section 3: Composition/Information of ingredients table information was modified.

Section 3: Reference to H statement explanation in Section 016 information was added.

- Section 3: Reference to R and H statement explanation in Section 16 information was deleted.
- Section 3: Reference to section 15 for Nota info information was modified.
- Section 6: Accidental release personal information information was modified.
- Section 8: glove data value information was added.
- Section 8: Skin protection recommended gloves information information was deleted.
- Section 9: Property description for optional properties information was modified.
- Section 11: Acute Toxicity table information was modified.
- Section 11: Aspiration Hazard text information was added.
- Section 11: Health Effects Skin information information was modified.
- Section 11: Reproductive and/or Developmental Effects text information was added.
- Section 11: Respiratory Sensitization text information was added.
- Section 11: Serious Eye Damage/Irritation Table information was modified.
- Section 11: Skin Corrosion/Irritation Table information was modified.
- Section 11: Skin Sensitization Table information was modified.
- Section 12: Persistence and Degradability information information was modified.
- Section 12:Bioccumulative potential information information was modified.
- Section 13: Standard Phrase Category Waste GHS information was modified.
- Section 14: Transportation classification information was modified.
- Section 15: Regulations Inventories information was modified.
- Section 16: List of relevant R phrase information information was deleted.
- Section 16: List of relevant R-phrases 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.

#### 3M United Kingdom MSDSs are available at www.3M.com/uk



# **Safety Data Sheet**

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This Safety Data Sheet has been prepared in accordance with the REACH Regulation (EC) 1907/2006 and its modifications.

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

#### 1.1. Product identifier

3M(TM) Scotch-Weld(TM) Low Odour Acrylic Adhesive DP8805NS, Green, Part B

#### 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 858 000 **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 CLP REGULATION (EC) No 1272/2008

#### **CLASSIFICATION:**

Serious Eye Damage/Eye Irritation, Category 2 - Eye Irrit. 2; H319 Skin Corrosion/Irritation, Category 2 - Skin Irrit. 2; H315

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

Hazardous to the Aquatic Environment (Acute), Category 1 - Aquatic Acute 1; H400 Hazardous to the Aquatic Environment (Chronic), Category 1 - Aquatic Chronic 1; H410

For full text of H phrases, see Section 16.

#### 2.2. Label elements

CLP REGULATION (EC) No 1272/2008

SIGNAL WORD

#### WARNING.

#### **Symbols:**

GHS07 (Exclamation mark) |GHS09 (Environment) |

**Pictograms** 





Ingredient CAS Nbr % by Wt 2-Hydroxyethyl methacrylate 868-77-9 10 - 30

**HAZARD STATEMENTS:** 

H319 Causes serious eye irritation.
H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects.

#### PRECAUTIONARY STATEMENTS

**Prevention:** 

P280E Wear protective gloves.

P273 Avoid release to the environment.

**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.

#### 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.

#### <=125 ml Precautionary statements

**Prevention:** 

P280E Wear protective gloves.

**Response:** 

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

2% of the mixture consists of components of unknown acute oral toxicity.

Contains 12% of components with unknown hazards to the aquatic environment.

#### 2.3. Other hazards

None known.

# **SECTION 3: Composition/information on ingredients**

Ingredient	CAS Nbr	<b>EU Inventory</b>	% by Wt	Classification
Tetrahydrofurfuryl methacrylate	2455-24-5	EINECS 219-	25 - 45	Skin Irrit. 2, H315; Eye Irrit. 2,
		529-5		H319 (Self Classified)
2-Hydroxyethyl methacrylate	868-77-9	EINECS 212-	10 - 30	Skin Irrit. 2, H315; Eye Irrit. 2,
		782-2		H319; Skin Sens. 1, H317 - Nota
				D (CLP)
Fillers (NJTS Reg. No. 04499600-6923)	Trade Secret		10 - 30	
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl	7534-94-3	EINECS 231-	1 - 20	Aquatic Chronic 2, H411 (Self
methacrylate		403-1		Classified)
Acrylonitrile - butadiene polymer	9003-18-3		1 - 20	
Phosphate Esters of PPG Methacrylate	Trade Secret		0.1 - 10	
(NJTS Reg. No. 04499600-6924)				
Bisphenol A dimethacrylate, ethoxylated	41637-38-1		0.1 - 10	
Silicon dioxide	Trade Secret		1 - 5	
Naphthenic acids, copper salts	1338-02-9	EINECS 215-	< 0.1	Flam. Liq. 3, H226; Acute Tox.
		657-0		4, H302 (CLP)
				Aquatic Acute 1, H400,M=1000;
				Aquatic Chronic 1,
				H410,M=1000 (Self Classified)

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

Please refer to section 15 for any applicable Notas that have been applied to the above components

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

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.

### Condition

During combustion. During combustion. During combustion.

#### 5.3. Advice for fire-fighters

No special protective actions for fire-fighters are anticipated.

# **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

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

Avoid breathing 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.)

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

Store away from heat. Store away from acids. Store away from strong bases. Store away from oxidising agents. Store away from amines.

#### 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 **Additional comments CAS Nbr** Agency Limit type

Fillers (NJTS Reg. No. 04499600- Trade Secret UK HSC TWA (as respirable dust): 2

6923)  $mg/m^3$ 

Silicon dioxide Trade Secret UK HSC

TWA(as inhalable dust):6 mg/m3;TWA(as respirable

dust):2.4 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

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.

#### 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.

Gloves made from the following material(s) are recommended:

Material Thickness (mm) **Breakthrough Time** No data available Fluoroelastomer No data available

#### 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.

# **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties

Physical state Liquid. **Specific Physical Form:** Paste

Appearance/Odour White, acrylate odour No data available. **Odour threshold** Not applicable. рH >=37.8 °C Boiling point/boiling range Melting point Not applicable. Not applicable. Flammability (solid, gas) **Explosive properties** Not classified

**Oxidising properties** > 93.3 °C [Test Method:Closed Cup] Flash point

Not classified

**Autoignition temperature** No data available. No data available. Flammable Limits(LEL) Flammable Limits(UEL) No data available. Vapour pressure No data available.

Relative density 1.13 [*Ref Std*:WATER=1]

Water solubility Nil

Solubility- non-water No data available. Partition coefficient: n-octanol/water No data available. No data available. **Evaporation rate** No data available. **Decomposition temperature** 100 - 125 Pa-s Viscosity 1.13 g/ml **Density** 

9.2. Other information

2.8 g/l [Details: when used as intended with Part A] VOC less H2O & exempt solvents VOC less H2O & exempt solvents 0.3 % [Details: when used as intended with Part A]

# **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.

Sparks and/or flames.

#### 10.5 Incompatible materials

Amines. Strong acids. Strong bases.

Strong oxidising agents.

#### 10.6 Hazardous decomposition products

**Condition** 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 EU 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 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.

#### 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.

#### **Toxicological Data**

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

#### **Acute Toxicity**

Name	Route	Species	Value
Overall product	Dermal		No data available; calculated ATE >5,000 mg/kg
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
Tetrahydrofurfuryl methacrylate	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg
2-Hydroxyethyl methacrylate	Dermal	Rabbit	LD50 > 5,000 mg/kg
2-Hydroxyethyl methacrylate	Ingestion	Rat	LD50 5,564 mg/kg
Acrylonitrile - butadiene polymer	Dermal	Rabbit	LD50 > 15,000 mg/kg
Acrylonitrile - butadiene polymer	Ingestion	Rat	LD50 > 30,000 mg/kg
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	Dermal	Rabbit	LD50 > 3,000 mg/kg
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	Ingestion	Rat	LD50 > 2,000 mg/kg
Fillers (NJTS Reg. No. 04499600-6923)	Dermal		LD50 estimated to be > 5,000 mg/kg
Fillers (NJTS Reg. No. 04499600-6923)	Ingestion	Human	LD50 > 15,000 mg/kg
Bisphenol A dimethacrylate, ethoxylated	Dermal	Professio	LD50 estimated to be > 5,000 mg/kg
		nal	
		judgeme	
		nt	
Bisphenol A dimethacrylate, ethoxylated	Ingestion	Rat	LD50 > 2,000 mg/kg
Silicon dioxide	Dermal	Rabbit	LD50 > 5,000 mg/kg
Silicon dioxide	Inhalation-	Rat	LC50 > 0.691 mg/l
	Dust/Mist		
	(4 hours)		
Silicon dioxide	Ingestion	Rat	LD50 > 5,110 mg/kg

Naphthenic acids, copper salts	Dermal	estimated to be > 5,000 mg/kg
Naphthenic acids, copper salts	Inhalation- Dust/Mist	estimated to be > 12.5 mg/l
Naphthenic acids, copper salts	Inhalation- Vapor	estimated to be > 50 mg/l
Naphthenic acids, copper salts	Ingestion	estimated to be 300 - 2,000 mg/kg

ATE = acute toxicity estimate

# Skin Corrosion/Irritation

Name	Species	Value
Tetrahydrofurfuryl methacrylate	similar	Irritant
	compoun ds	
2-Hydroxyethyl methacrylate	Rabbit	Minimal irritation
Acrylonitrile - butadiene polymer	Professio	No significant irritation
	nal	
	judgemen	
	t	
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	Rabbit	Mild irritant
Fillers (NJTS Reg. No. 04499600-6923)	Professio	No significant irritation
	nal	
	judgemen	
	t	
Silicon dioxide	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
Tetrahydrofurfuryl methacrylate	similar compoun ds	Severe irritant
2-Hydroxyethyl methacrylate	Rabbit	Moderate irritant
Acrylonitrile - butadiene polymer	Professio nal judgemen t	No significant irritation
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	Rabbit	Mild irritant
Fillers (NJTS Reg. No. 04499600-6923)	Professio nal judgemen t	No significant irritation
Silicon dioxide	Rabbit	No significant irritation

# **Skin Sensitisation**

Name	Species	Value
Tetrahydrofurfuryl methacrylate	Human	Some positive data exist, but the data are not sufficient for classification
2-Hydroxyethyl methacrylate	Human	Sensitising
	and	
	animal	
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	Guinea	Not sensitising
	pig	
Bisphenol A dimethacrylate, ethoxylated	Guinea	Not sensitising
	pig	
Silicon dioxide	Human	Not sensitising
	and	
	animal	

# **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-Hydroxyethyl methacrylate	In vivo	Not mutagenic
2-Hydroxyethyl methacrylate	In Vitro	Some positive data exist, but the data are not sufficient for classification
Bisphenol A dimethacrylate, ethoxylated	In Vitro	Not mutagenic
Silicon dioxide	In Vitro	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
Fillers (NJTS Reg. No. 04499600-6923)	Inhalation	Multiple	Not carcinogenic
		animal	
		species	
Silicon dioxide	Not	Mouse	Some positive data exist, but the data are not
	specified.		sufficient for classification

# Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
2-Hydroxyethyl methacrylate	Ingestion	Not toxic to female reproduction	Rat	NOAEL 1,000 mg/kg/day	premating & during gestation
2-Hydroxyethyl methacrylate	Ingestion	Not toxic to male reproduction	Rat	NOAEL 1,000 mg/kg/day	49 days
2-Hydroxyethyl methacrylate	Ingestion	Not toxic to development	Rat	NOAEL 1,000 mg/kg/day	premating & during gestation
Silicon dioxide	Ingestion	Not toxic to female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
Silicon dioxide	Ingestion	Not toxic to male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
Silicon dioxide	Ingestion	Not toxic to development	Rat	NOAEL 1,350 mg/kg/day	during organogenesis

# Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Tetrahydrofurfuryl methacrylate	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Fillers (NJTS Reg. No. 04499600-6923)	Inhalation	pneumoconiosis	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL NA	occupational exposure
Fillers (NJTS Reg. No. 04499600-6923)	Inhalation	pulmonary fibrosis	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL Not available	
Silicon dioxide	Inhalation	respiratory system   silicosis	All data are negative	Human	NOAEL Not available	occupational exposure

### **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.

# **SECTION 12: Ecological information**

The information below may not agree with the EU 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 Nbr	Organism	Type	Exposure	Test endpoint	Test result
Naphthenic acids, copper salts	1338-02-9	Water flea	Experimental	48 hours	EC50	0.34 mg/l
Naphthenic acids, copper salts	1338-02-9	Fish	Experimental	96 hours	LC50	0.00034 mg/l
2- Hydroxyethyl methacrylate	868-77-9	Water flea	Experimental	48 hours	EC50	380 mg/l
2- Hydroxyethyl methacrylate	868-77-9	Fathead minnow	Experimental	96 hours	LC50	227 mg/l
Exo-1,7,7- trimethylbicycl o[2.2.1]hept-2- yl methacrylate	7534-94-3	Green Algae	Experimental	96 hours	EC50	2.7 mg/l
Exo-1,7,7- trimethylbicycl o[2.2.1]hept-2- yl methacrylate	7534-94-3	Water flea	Experimental	48 hours	EC50	1.1 mg/l
Exo-1,7,7- trimethylbicycl o[2.2.1]hept-2- yl methacrylate	7534-94-3	Zebra Fish	Experimental	96 hours	LC50	1.8 mg/l
Tetrahydrofurf uryl methacrylate	2455-24-5	Fathead minnow	Experimental	96 hours	LC50	34.7 mg/l
2- Hydroxyethyl methacrylate	868-77-9	Green Algae	Experimental	72 hours	EC50	345 mg/l
2- Hydroxyethyl methacrylate	868-77-9	Green Algae	Experimental	72 hours	NOEC	160 mg/l
2- Hydroxyethyl methacrylate	868-77-9	Water flea	Experimental	21 days	NOEC	24.1 mg/l
Acrylonitrile - butadiene polymer	9003-18-3		Data not available or insufficient for classification			
Bisphenol A	41637-38-1		Data not			

dimethacrylate,		available or		
ethoxylated		insufficient for		
		classification		
Silicon dioxide	Trade Secret	Data not		
		available or		
		insufficient for		
		classification		
Fillers (NJTS	Trade Secret	Data not		
Reg. No.		available or		
04499600-		insufficient for		
6923)		classification		

# 12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
2- Hydroxyethyl methacrylate	868-77-9	Experimental Hydrolysis		Hydrolytic half-life	10.9 days (t 1/2)	Other methods
Fillers (NJTS Reg. No. 04499600- 6923)	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Acrylonitrile - butadiene polymer	9003-18-3	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Silicon dioxide	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
2- Hydroxyethyl methacrylate	868-77-9	Experimental Biodegradation	14 days	BOD	95 % weight	OECD 301C - MITI test (I)
Exo-1,7,7- trimethylbicycl o[2.2.1]hept-2- yl methacrylate	7534-94-3	Estimated Photolysis		Photolytic half- life (in air)	1.12 days (t 1/2)	Other methods
Exo-1,7,7- trimethylbicycl o[2.2.1]hept-2- yl methacrylate	7534-94-3	Experimental Biodegradation	28 days	BOD	26.8 % weight	OECD 301D - Closed bottle test
Naphthenic acids, copper salts	1338-02-9	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Bisphenol A dimethacrylate, ethoxylated	41637-38-1	Calculated Biodegradation	28 days	BOD	38 % weight	OECD 301C - MITI test (I)
Tetrahydrofurf uryl methacrylate	2455-24-5	Estimated Biodegradation	28 days	BOD	85.9 % weight	Other methods

# 12.3 : Bioaccumulative potential

	Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
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Acrylonitrile -	9003-18-3	Data not	N/A	N/A	N/A	N/A
butadiene		available or				
polymer		insufficient for				
		classification				
Silicon dioxide	Trade Secret	Data not	N/A	N/A	N/A	N/A
		available or				
		insufficient for				
		classification				
Fillers (NJTS	Trade Secret	Data not	N/A	N/A	N/A	N/A
Reg. No.		available or				
04499600-		insufficient for				
6923)		classification				
Bisphenol A	41637-38-1	Calculated		Bioaccumulatio	6.7	Estimated:
dimethacrylate,		Bioconcentrati		n factor		Bioconcentration factor
ethoxylated		on				
Tetrahydrofurf	2455-24-5	Estimated		Log Kow	1.80	Other methods
uryl		Bioconcentrati				
methacrylate		on				
2-	868-77-9	Experimental		Log Kow	0.47	Other methods
Hydroxyethyl		Bioconcentrati				
methacrylate		on				
Exo-1,7,7-	7534-94-3	Estimated		Bioaccumulatio	37.4	Other methods
trimethylbicycl		Bioconcentrati		n factor		
o[2.2.1]hept-2-		on				
yl methacrylate						
Naphthenic	1338-02-9	Experimental		Log Kow	4.1	Other methods
acids, copper		Bioconcentrati				
salts		on				

#### 12.4. Mobility in soil

Please contact manufacturer for more details

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

No information available at this time, contact manufacturer for more details

#### 12.6. Other adverse effects

No information available.

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

See Section 11.1 Information on toxicological effects

Dispose of completely cured (or polymerised) 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)

Waste adhesives and sealants containing organic solvents or other dangerous substances 08 04 09\*

20 01 27\* Paint, inks, adhesives and resins containing dangerous substances

# **SECTION 14: Transportation information**

ADR: UN3082 Environmental Hazardous Substance, Liquid, N.O.S. (Isobornyl Methacrylate and Copper Salt); 9; III; (E);

IMDG: UN3082 Environmental Hazardous Substance, Liquid, N.O.S. (Isobornyl Methacrylate and Copper Salt); 9; III; EMS:

FA, SF; Marine Pollutant: Isobornyl Methacrylate and Copper Salt

IATA: UN3082 Environmental Hazardous Substance, Liquid, N.O.S. (Isobornyl Methacrylate and Copper Salt); 9; III

# **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 China "Measures on Environmental Management of New Chemical Substance". Certain restrictions may apply. Contact the selling division for additional 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 product are in compliance with the chemical notification requirements of TSCA.

#### 15.2. Chemical Safety Assessment

Not applicable

### **SECTION 16: Other information**

#### List of relevant H statements

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
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.

# **Revision information:**

Section 2: Indication of danger information information was deleted.

Label: Graphic Text information was deleted.

Label: Graphic information was deleted.

Label: Signal Word information was modified.

Section 2: Label ingredient information information was deleted.

Section 2: Label remarks information was deleted.

Section 2: R phrase reference information was deleted.

Risk phrase information was deleted.

Safety phrase information was deleted.

Section 3: Composition/Information of ingredients table information was modified.

Section 3: Reference to H statement explanation in Section 016 information was added.

- Section 3: Reference to R and H statement explanation in Section 16 information was deleted.
- Section 3: Reference to section 15 for Nota info information was modified.
- Section 6: Accidental release personal information information was modified.
- Section 8: glove data value information was added.
- Section 8: Skin protection recommended gloves information information was deleted.
- Section 9: Property description for optional properties information was modified.
- Section 11: Acute Toxicity table information was modified.
- Section 11: Aspiration Hazard text information was added.
- Section 11: Health Effects Skin information information was modified.
- Section 11: Reproductive and/or Developmental Effects text information was added.
- Section 11: Respiratory Sensitization text information was added.
- Section 11: Serious Eye Damage/Irritation Table information was modified.
- Section 11: Skin Corrosion/Irritation Table information was modified.
- Section 11: Skin Sensitization Table information was modified.
- Section 12: Persistence and Degradability information information was modified.
- Section 12:Bioccumulative potential information information was modified.
- Section 13: Standard Phrase Category Waste GHS information was modified.
- Section 14: Transportation classification information was modified.
- Section 15: Regulations Inventories information was modified.
- Section 16: List of relevant R phrase information information was deleted.
- Section 16: List of relevant R-phrases 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.

#### 3M United Kingdom MSDSs are available at www.3M.com/uk