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o o er 31-5485 du u o 4.00 u
o o er 19/12/2014 d d
er o o o T 4.00 (31/08/2015) u

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

O TO OT T TS S O T O

o du d
3M(TM) Scotch-Weld(TM) Low Odour Acrylic Adhesive DP8810NS, Green

t er o o du d u
62-2854-1445-4 62-2854-3630-9

d e t ce rt re l t oe e o d du h u u du d d
d du

Adhesive

r e 3 t oee t t lo l h u h d h
3M United Kingdom PLC, 3M Centre, Cain Road, Bracknell, Berkshire, RG12 8HT.
o +44 (0)1344 858 000 h
tox.uk@hmm.com
W www.3M.com/uk

e er o l h u
+44 (0)1344 858 000

t r rt oct c d o Tw t h o e d u e o c t euc e du h h l t a lo d d d
e ec t e cot e oe e o o r Sh ec t the h o l d tlee tr udt d d h o S
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31-5472-1, 31-5476-2

M TO OTSTO O T

62-2854-1445-4, 62-2854-3630-9

UN3082, NOT RESTRICTED AS PER SECIAL PROVISION 375, ENVIRONMENTALLY HAZARDOUS
SUBSTANCE EXEMPTION, III, --.

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

UN3082 NOT RESTRICTED AS PER SPECIAL PROVISION A197, ENVIRONMENTALLY
HAZARDOUS SUBSTANCE EXCEPTION, III.

T L L

t () l l L o O L T

W O IS
WARNING.

o l S
GHS07 (Exclamation mark) | GHS09 (Environment) |



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.

M O T T T S T S

o
P280E Wear protective gloves.
P273 Avoid release to the environment.

o
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.

o l
P501 Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

t o o t o r w rec o ot e e l t t d l l e e b d d u

e t t t l d
H317 May cause an allergic skin reaction.

t e e t t t o l u

o
P280E Wear protective gloves.

o

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).

t o o o

Revision Changes:

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

Section 01: 1.3. Details of the supplier of the safety data sheet heading information was modified.

Copyright information was modified.

Label: Signal Word information was modified.

Safety phrase information was deleted.

Section 2: Contains heading information was deleted.

Section 2: Safety phrases heading information was deleted.

Section 2: Risk phrase information information was deleted.

Section 2: Risk phrases heading information was deleted.

Kit label ingredient disclosure information information was deleted.

Section 2: Notes on labelling heading information was deleted.

Section 2: Label remarks information was deleted.

Section 2: 2.2 & 2.3. DSD/DPD heading information was deleted.

Label: Graphic Text information was deleted.

Label: Graphic Text information was deleted.

Label: Graphic information was deleted.

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Label: Graphic Text information was deleted.



y D t f e a S h a æ S

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p e o o f a g a o f e o e

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v R i i t e s d l e a : p u l t r e s e l s d e a
: p t t r i k u r i n a e b u n m e

a p f p a a e e a e e e a e a o a e l e C g e a o C a o

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M i l a o o
W b i e s e o

y t m l p g e c e k h u e m e

1

N T S i t i r t i a l f c n a

l i i t i f s s a c n f o h u e s i t c o r m r e
L R R L N G N T O (o 008

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p o f e l o f a e e e e o

L b l l t e a e a n e s
L R R L N G N T O (o 008

A N W L D R G S O

y b l m o S

a ao a o e

itP ω g m a



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1 : A A DA M T T S T S a a ea ag e a o

11 o o a a f g ag e ff

AR P AN R T O M T T S T S

v P t i r me n
P p a o e g eo e
P o ea e ee o e

1 R p en e : f ao o a o e e a a ea eo

D ip l s a

1 P p o e d e o appe ao a e a a e ag eo a ao
g e ao

1 t ior n n s e ce n y l h i f eo o n g P a i d a r u e t t n a r t a s e m u a e d

1 l n t t r d a s me s a a ea ag e a o

l P i n i r u e t t n a r t a s me s

v P t i r me n
P p a o e g eo e

1 R p en e : f ao o a o e e a a ea eo

p G a o d o e o a a o ea a e o e

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o eo

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P l a e e e eo of e f eo f a e e e f eo eo
P l a e e p eo of a a a p po a a a e e p eo cao o o e
o of p no o g p e eo ao a eo Pe oP o l a e e eo a o f

N Ti t Si r s dne sræs

D pt i erit n f r s dne sræs

lt i nh ma
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i t tn n S c a
p e a e a o a a a e eo o a a e o g a a p f e e e g f o
g e e a a eo
y t t en c a
ga cao o fa e eo o a e e fa o o 6 p e g p g f o e g
e a a eo
w w llf s o aed
eo f fe ge e e a a eo

M t i p y o t s m q t n am o n t s lla ect s d yu cl an dale ed
11 l ee eo of ao o o go a e ff

3 i t i y d c i fa nit amm ed l ten a d c n q an int d as ect r æ i n a u e r ed
pp o a a e

N Ti G-t i f e hg n gmue sræs

t i i i m g hin gm ed a
a e ffe ea fe fg ga e a o f a o e a ea a a e o f a o g
p i l ec h Sa r al ar t n sig r d h u e s nit c ar m r e
P a o f eg p pe o fo po e e e e e f
D n a p a i i o m o sn- Br t m d c s
lt u n Sa ti i n d n
Ca o o o e g o o
Ca o o e g o o

A 3v i id f c i e d r f e hg e s
p p o e a o e ca o opf fe f e a ea a e

NA T iSt l cd ne r ae snae s æ s

P p e n t i r p e c t d a i s r o p e c t e e m y n d a n e g e c m u c e d r e s
 a a e a e a e e a a p f e p a o g a e p o p o f e a e o e e a a e
 p p e e e a a o a o a e g p o a g e e a e e e o o e e o o f
 p o f a o g e a g p a p a a e a o p e o p e a o a p a o e e e

v i n t i n m d i r a c n a s
 o e a e e p o e o g a e o e p a a e o e e e o e e e o
 o a f a e

3 Mt h e o t d n i l d a n t f a i o r a n n h e i n d e n u g
 p G a o g o f p g e a f e a o e e e e o o e a
 a a a e g a a o e a e a p p e a o e a a e e e e a g a a o
 a p e a o e o e a a a o e o e a a a p o e a o p f e e a e a a o
 P a p e a o e o p a e a o p p a o a o a o p a e a o e C p a p e e a a o a
 o e e e e a p a f e a a o e a e e a e f e a p a a o f a f e a
 a e a e a a f a a e e p a a e o a d p e a e a a o o a o e

R f a m e c e o d h e a c n s
 e l f o e o a e o o f o e o f a o

N T Si n t d a g n d a s r g e a

P t i r u e c n f s r f l i s h e n d a g
 o a g p p g e a a o a o g e e e o o o o g o o a o
 p e g o a o g a f e a g G a a e o o g o o a o e o o
 p o a e o e a e e e o e a o a a e o g e f e e e o o a o g
 g a e g e o e o a e

t i n d n f t s r f s i e h y i g n a c i n d g p t i b i i n a e s
 p e e o o e a a o f a o e a a o f a o e a a o f g a e o e a a o f o g g
 o e a a o f a e

3 p i i f e c n d e s
 p p l e e o f a o e o a o f a g a g a e o e a o p e e e o o f e o a o
 a o e o e e a o

N Tp S8 uo s p e n r o p s t e n s i r a e n

t 8 p n o r m a e s

p t i u O c k p n a l i e n s r e m s
 p p o o a o a e o e a e p e o f a o f a o e e e o o f a f a a e e

i l i v l o g d n a u e s
 o g o a a e p e o f a o f a o e e e o o f a f a a e e

p 8 u o s t e n r o s

8 i i n g t e n l g a r o s
 g e e e a o e a o a o o a e a e a o p o o o a o e e o p e o e e e a o
 a o o o p p g e a a o a f e a o p o a p e a e e p a o o e o e

P p v t e n s i r a p e c t e e) P h e (

y p f e t i c e a o e c n
o e e e

i p n h n i S d a o e c n

p e p a g e o e a p p o e e o g a o e o p e a o a a a o e e o a a e o
e o d e o e a e e e e o o e a e o p e a f o a e o e e e o e a o o
a e e p f e e a a o a p a g e e a e e a e e e e a o e e o
6 p o g o e a o o e e o g a p p e o f e p o o d o p a e a g e o e o
o g o e g e p e a e o o e o p e a g e o e o o e e e
o e a e d f e f g a e a a e o e e

M t i l e a a i T n e s s m t r e h i n o h g T m e
P o e a a e o a a a a e o a a a a e

p f o p e a a p e a e e p g e o p e a o f e o p g e p a g g a o e a e
p e f e e e a a e e e a p e e a p e o o e o o e e o a a e e e o
p e o e a p e e e f g o e e o g a e a p a p o e e o o e a a e

R p y i t p e s t r o i a r o e c n

p e o e a e e a p e e e o e e f e p o e e f e p a o p e e e e e a o a
p p a f e a o o e o g o a a p o e e o f e e o e a e e e e p o f e f g e
p : e p o e e a a o e o e
p a f e p e e f a f e e e a g f e a p a p o a a o a a a e
o e o p a o p p a o f a e f a a o p o o e a o a a f e

N y T P S l h s c i n a p e n t d i r a e e s

t f i o r n b i p a n i k d a s c i n a p e n t d i r a e e s
y P i l t h t s c s a e a
: p y i i P f i c l d S s c o r m P a e
A p p e m a e u O d r e e e o
t u O d h r l e o d No data available.
p Not applicable.
i l i p i o n b i g i n o n g m g a C
M t l i p i t a n g a n Not applicable.
l y b i l m m a l) a d s d g s a p p o a a e
v p l i p p o t s i e r o e e s o a f e
i i i p O p d t s i g r o e e s o a f e
l p i t h s a n Test Method: C p e C
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V p p u o n a m e s s e e No data available.
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l i i t i c f i s a c tññ s i p e n i f Si s f e c i tñ g e d i e t i c f s s a c n a y s r e n d a e d t t o m eñ h a r t i n d e
11 t t t s e n e p s dñ iñ a n e i e d e c n b S N e a e d l k G u c l a S n a r l e i n i t d e f s s a d n a s d e f
3 M t s e a s n e s

tññ orm ñ al To l o d g c f f e a e c s

i y n g p s S l a m p n f s u o s r e

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h t i n h m a a
:p e a o pñ a o g o a æ æ a a g a e a a e o a e e a
p a o a a

i t tñ n S c a
6 pñ e g p o e o e e e o e g f a a o g p e a o o
p e g o a e e e g g e a g

y t t e n c a

6 p e e e gp o e o e e eo e g fa ao

t i n g e n

a e a f f ao e

i l D o l a o g c a a a

p f o o e o e p p e o o e o a a a a e e e o a a p e a a a o f a e o
e a a a e o f f e o f a fao

A t y u i f i d o c

N m a	R t u o	p V e c l e s S u a
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p p o e o a e		e a a g g
p p o e o a e		a a o a C g
		o
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p l e e o e a e e a e a e a e	g	e o a g g
C a a g e o		e p a o f o e a e o e a g e e
C a a g e o	g	e o a g g
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a e e a e

i n i o r o t a r r n a

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y i D u o s S e t i m i g e n r n a

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R p v t i e n d i t o c

R p v t i e n d c a l p a r t e b m t e f f a e c s

N	m a	R t V u o t u a	p i e e s S t t e r e p	ti u r n a
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p p	o eo a e	g eo p o o o a e co o	a g g a	g e a o
p p	o eo a e	p g eo p o eo e e e e a a a e a a e a f f e o f	g g a	g e a o

t T r g a O g a

p i i f t c d S r g a l i n T a l c p n s g e e u o s r e

N	m a	R t u o e t	T r g a O g l a u a	p i e e s S t t e r e p	ti u r n a
C a a	g e o g eo	e o p e o eo a a a e f f e o f	e a a e f f e o f	e a g g	

p i i f t c d S r g a l i n T o p t r p e e e d e u o s r e

N	m a	R t u o e t	T r g a O g l a u a	p i e e s S t t e r e p	ti u r n a
p p	o eo a e p g eo	e a p o e o eo a a a e f f e o f	e a a e f f e o f	e a g g a	

A p i t i s r n a r a l a

p po eo o eo o e e eo aa e a a a e e a a o f f e o f a fao

l P t t e m c h a e p d d a e s s r h m u l t m t s i e p h f e t D g f o a h e f i o r S d h a l i o h i o o g t h a
t i n h i l m e t a n a p r t o m n e s

N T C i l i o o g t h a r m n a

i T i t l v o r n a o w m n d n t g r e h l t d l h i n i a i c f i s s a c t i n e c n t S i d a h i t e g e d e
l i i t i c f i s s a c t i n s i p e n i f S i s f e c i t n g r e d i e t i c f s s a c n a y r e n d a p l t t o y a e n h a r t i n d e
1 t t t s e n t e p s d a l i n a n i e d e c b S N e a e d l k G u c l a S m a r l e n i t d e f s s a d n a s d e f
3 M t s e a m e s

y i t i T o c

p o o e a a a a a e

M t	i l A e a	a b	r S y O g n a	T e p	u o s r t e	p T i t e n e d n t t e r e s
p p 1	l o eo a e		p a e f a	e e a o l	C	g
p p 1	l o eo a e		p a a o	e e a o	C	g
p p 1	l o eo a e		p e e g a e	e e a o	C	g
	C a a g e o	a e e e	e	a a o a a a e		

				ff e o f a fac	
1 p	1 1 e e o e a e e a a e a e e a a e			a a o a a a e ff e o f a fac	
1 1 p	1 e e eao a e			a a o a a a e ff e o f a fac	

Pit e sne c q m l l e r d a a

	Mt i l A e a N	ab y r t S T D s	e t i u r y t y a	p d T t S e t l e r e P l r o o o
1 p	1 1 e e o e a e e a a e a e e a a e	a a o a a a e ff e o f a fac		
1 1 p	1 e e eao a e	a a o a a a e ff e o f a fac		
p p 1	1 o eo a e	e e a a og e a ao	C e	o l g e
	Ca a g e o	a e e e e o e e og e a ao	a	l g e

3 i v buic p m t i la one a

	Mt i l A e a N	ab y r t S T D s	e t i u r y t y a	p d T t S e t l e r e P l r o o o
1 p	1 1 e eao a e	a a o a a a e ff e o f a fac		
1 p	1 1 e e o e a e e a a e a e e a a e	a a o a a a e ff e o f a fac		
p p 1	1 o eo a e	a e o o e a o	: o a afo	ao a e o o e ao
	Ca a g e o	a e e e e o e e o o e a o	o a afo	ao e eo

M b i i o i l n os

P a o a a af eo f o e ea

R tl tu es fB h e Th da t s e s s e

o o f ao a a a ea eo a a af eo f o e ea

t v D e t n f f e e c s
o o f ao a a a e

N 3D TipS l io st i n a s d e n a s

W t t t t e a t e m a m h o d s
111 ee eo of ao o o ogo a e ff

p p o p d ee eo op e e a ea a e e ap a eaf a o a a e a
p ep e eo a e e a ep eaoP af o e e o a e e e e f o
p g p eao o e e a ep a e eo f a og a ag aao e a
e pap a e e eaao p fpa aao a ea a ge e ao a o e e
p a e o eo f aao a e pp e e e f e a a e a ge e ao G
p e e ge e g a o eo ee e ca p a e a e a o a af e
og o f a pp a a eop ea ao o f eo eo e e o o f eo
p o a eo e of p a fe e Peo ep a e e fo e o a a e G e C
a a e e o g eo e a eo o a e a eao a a og eo ag e ao a
p o e a a a ea e e a eo ao

w t p s e a t d e x o l d c s a d

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Safety Data Sheet

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Document group:	31-5476-2	Version number:	5.00
Revision date:	15/09/2015	Supersedes date:	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 DP8810NS 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
2-Hydroxyethyl methacrylate

CAS Nbr
868-77-9

% by Wt
1 - 20

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.

3% 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

3M(TM) Scotch-Weld(TM) Low Odour Acrylic Adhesive DP8810NS Green, Part B

None known.

SECTION 3: Composition/information on ingredients

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

<u>Substance</u>	<u>Condition</u>
Carbon monoxide.	During combustion.
Carbon dioxide.	During combustion.
Oxides of nitrogen.	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

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

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	CAS Nbr	Agency	Limit type	Additional comments
Fillers - N.J.T.S. Reg. No. 04499600-6923	Trade Secret	UK HSC	TWA (as respirable dust): 2 mg/m ³	

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. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.

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

Material	Thickness (mm)	Breakthrough Time
Fluoroelastomer	No data available	No data available
Polymer laminate	No data available	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
Odour threshold	<i>No data available.</i>
pH	<i>Not applicable.</i>
Boiling point/boiling range	$\geq 37.8\text{ }^{\circ}\text{C}$
Melting point	<i>Not applicable.</i>
Flammability (solid, gas)	Not applicable.
Explosive properties	Not classified
Oxidising properties	Not classified
Flash point	$> 93.3\text{ }^{\circ}\text{C}$ [<i>Test Method: Closed Cup</i>]
Autoignition temperature	<i>No data available.</i>
Flammable Limits(LEL)	<i>No data available.</i>
Flammable Limits(UEL)	<i>No data available.</i>
Vapour pressure	<i>No data available.</i>
Relative density	1.13 [<i>Ref Std: WATER=1</i>]
Water solubility	Nil
Solubility- non-water	<i>No data available.</i>
Partition coefficient: n-octanol/water	<i>No data available.</i>
Evaporation rate	<i>No data available.</i>
Decomposition temperature	<i>No data available.</i>
Viscosity	100 - 125 Pa-s
Density	1.13 g/ml

9.2. Other information

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

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

<u>Substance</u>	<u>Condition</u>
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 - N.J.T.S. Reg. No. 04499600-6923	Dermal		LD50 estimated to be > 5,000 mg/kg
Fillers - N.J.T.S. Reg. No. 04499600-6923	Ingestion	Human	LD50 > 15,000 mg/kg
Bisphenol A dimethacrylate, ethoxylated	Dermal	Professional judgement	LD50 estimated to be > 5,000 mg/kg
Bisphenol A dimethacrylate, ethoxylated	Ingestion	Rat	LD50 > 2,000 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

3M(TM) Scotch-Weld(TM) Low Odour Acrylic Adhesive DP8810NS Green, Part B**Skin Corrosion/Irritation**

Name	Species	Value
Tetrahydrofurfuryl methacrylate	similar compounds	Irritant
2-Hydroxyethyl methacrylate	Rabbit	Minimal irritation
Acrylonitrile - butadiene polymer	Professional judgement	No significant irritation
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	Rabbit	Mild irritant
Fillers - N.J.T.S. Reg. No. 04499600-6923	Professional judgement	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
Tetrahydrofurfuryl methacrylate	similar compounds	Severe irritant
2-Hydroxyethyl methacrylate	Rabbit	Moderate irritant
Acrylonitrile - butadiene polymer	Professional judgement	No significant irritation
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	Rabbit	Mild irritant
Fillers - N.J.T.S. Reg. No. 04499600-6923	Professional judgement	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 and animal	Sensitising
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	Guinea pig	Not sensitising
Bisphenol A dimethacrylate, ethoxylated	Guinea pig	Not sensitising

Respiratory Sensitisation

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

Germ Cell Mutagenicity

Name	Route	Value
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

Carcinogenicity

Name	Route	Species	Value
Fillers - N.J.T.S. Reg. No. 04499600-6923	Inhalation	Multiple animal species	Not carcinogenic

3M(TM) Scotch-Weld(TM) Low Odour Acrylic Adhesive DP8810NS Green, Part B**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

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 - N.J.T.S. Reg. No. 04499600-6923	Inhalation	pneumoconiosis	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL NA	occupational exposure
Fillers - N.J.T.S. Reg. No. 04499600-6923	Inhalation	pulmonary fibrosis	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL Not available	

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-	868-77-9	Water flea	Experimental	48 hours	EC50	380 mg/l

3M(TM) Scotch-Weld(TM) Low Odour Acrylic Adhesive DP8810NS Green, Part B

Hydroxyethyl methacrylate						
2-Hydroxyethyl methacrylate	868-77-9	Fathead minnow	Experimental	96 hours	LC50	227 mg/l
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	7534-94-3	Green Algae	Experimental	96 hours	EC50	2.7 mg/l
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	7534-94-3	Water flea	Experimental	48 hours	EC50	1.1 mg/l
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	7534-94-3	Zebra Fish	Experimental	96 hours	LC50	1.8 mg/l
Tetrahydrofurfuryl 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 dimethacrylate, ethoxylated	41637-38-1		Data not available or insufficient for classification			
Fillers - N.J.T.S. Reg. No. 04499600-6923	Trade Secret		Data not available or insufficient for classification			

12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Exo-1,7,7-trimethylbicyclo[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
2-Hydroxyethyl methacrylate	868-77-9	Experimental Hydrolysis		Hydrolytic half-life	10.9 days (t _{1/2})	Other methods
Acrylonitrile - butadiene polymer	9003-18-3	Data not available or insufficient for	N/A	N/A	N/A	N/A

3M(TM) Scotch-Weld(TM) Low Odour Acrylic Adhesive DP8810NS Green, Part B

		classification				
Fillers - N.J.T.S. Reg. No. 04499600- 6923	Trade Secret	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
Naphthenic acids, copper salts	1338-02-9	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	Experimental Biodegradation	28 days	BOD	26.8 % weight	OECD 301D - Closed bottle test

12.3 : Bioaccumulative potential

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

12.4. Mobility in soil

Please contact manufacturer for more details

12.5. Results of the PBT and vPvB assessment

3M(TM) Scotch-Weld(TM) Low Odour Acrylic Adhesive DP8810NS Green, Part B

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: UN3082, Not restricted As Per Special Provision 375, Environmentally Hazardous Substance Exemption; III.
IATA: UN3082, Not restricted As Per Special Provision A197, Environmentally Hazardous Substance Exemption; III.
IMDG: UN3082, Not restricted as per IMDG code 2.10.2.7, Marine Pollutant Exception; III; IMDG-Code segregation code: None, EmS: --.

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 12: Component ecotoxicity information information was modified.
Section 12: Persistence and Degradability information information was modified.
Section 12:Biocumulative potential information information was modified.
Section 14: Transportation classification information was modified.
Section 15: Regulations - Inventories 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:	31-5476-2	Version number:	5.00
Revision date:	15/09/2015	Supersedes date:	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 DP8810NS 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
2-Hydroxyethyl methacrylate

CAS Nbr
868-77-9

% by Wt
1 - 20

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.

3% 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

3M(TM) Scotch-Weld(TM) Low Odour Acrylic Adhesive DP8810NS Green, Part B

None known.

SECTION 3: Composition/information on ingredients

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

<u>Substance</u>	<u>Condition</u>
Carbon monoxide.	During combustion.
Carbon dioxide.	During combustion.
Oxides of nitrogen.	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

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

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	CAS Nbr	Agency	Limit type	Additional comments
Fillers - N.J.T.S. Reg. No. 04499600-6923	Trade Secret	UK HSC	TWA (as respirable dust): 2 mg/m ³	

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. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.

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

Material	Thickness (mm)	Breakthrough Time
Fluoroelastomer	No data available	No data available
Polymer laminate	No data available	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
Odour threshold	<i>No data available.</i>
pH	<i>Not applicable.</i>
Boiling point/boiling range	≥ 37.8 °C
Melting point	<i>Not applicable.</i>
Flammability (solid, gas)	Not applicable.
Explosive properties	Not classified
Oxidising properties	Not classified
Flash point	> 93.3 °C [<i>Test Method:</i> Closed Cup]
Autoignition temperature	<i>No data available.</i>
Flammable Limits(LEL)	<i>No data available.</i>
Flammable Limits(UEL)	<i>No data available.</i>
Vapour pressure	<i>No data available.</i>
Relative density	1.13 [<i>Ref Std:</i> WATER=1]
Water solubility	Nil
Solubility- non-water	<i>No data available.</i>
Partition coefficient: n-octanol/water	<i>No data available.</i>
Evaporation rate	<i>No data available.</i>
Decomposition temperature	<i>No data available.</i>
Viscosity	100 - 125 Pa-s
Density	1.13 g/ml

9.2. Other information

VOC less H ₂ O & exempt solvents	2.8 g/l [<i>Details:</i> when used as intended with Part A]
VOC less H ₂ O & exempt solvents	0.3 % [<i>Details:</i> 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

<u>Substance</u>	<u>Condition</u>
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 - N.J.T.S. Reg. No. 04499600-6923	Dermal		LD50 estimated to be > 5,000 mg/kg
Fillers - N.J.T.S. Reg. No. 04499600-6923	Ingestion	Human	LD50 > 15,000 mg/kg
Bisphenol A dimethacrylate, ethoxylated	Dermal	Professional judgement	LD50 estimated to be > 5,000 mg/kg
Bisphenol A dimethacrylate, ethoxylated	Ingestion	Rat	LD50 > 2,000 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

3M(TM) Scotch-Weld(TM) Low Odour Acrylic Adhesive DP8810NS Green, Part B**Skin Corrosion/Irritation**

Name	Species	Value
Tetrahydrofurfuryl methacrylate	similar compounds	Irritant
2-Hydroxyethyl methacrylate	Rabbit	Minimal irritation
Acrylonitrile - butadiene polymer	Professional judgement	No significant irritation
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	Rabbit	Mild irritant
Fillers - N.J.T.S. Reg. No. 04499600-6923	Professional judgement	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
Tetrahydrofurfuryl methacrylate	similar compounds	Severe irritant
2-Hydroxyethyl methacrylate	Rabbit	Moderate irritant
Acrylonitrile - butadiene polymer	Professional judgement	No significant irritation
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	Rabbit	Mild irritant
Fillers - N.J.T.S. Reg. No. 04499600-6923	Professional judgement	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 and animal	Sensitising
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	Guinea pig	Not sensitising
Bisphenol A dimethacrylate, ethoxylated	Guinea pig	Not sensitising

Respiratory Sensitisation

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

Germ Cell Mutagenicity

Name	Route	Value
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

Carcinogenicity

Name	Route	Species	Value
Fillers - N.J.T.S. Reg. No. 04499600-6923	Inhalation	Multiple animal species	Not carcinogenic

3M(TM) Scotch-Weld(TM) Low Odour Acrylic Adhesive DP8810NS Green, Part B**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

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 - N.J.T.S. Reg. No. 04499600-6923	Inhalation	pneumoconiosis	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL NA	occupational exposure
Fillers - N.J.T.S. Reg. No. 04499600-6923	Inhalation	pulmonary fibrosis	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL Not available	

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-	868-77-9	Water flea	Experimental	48 hours	EC50	380 mg/l

3M(TM) Scotch-Weld(TM) Low Odour Acrylic Adhesive DP8810NS Green, Part B

Hydroxyethyl methacrylate						
2-Hydroxyethyl methacrylate	868-77-9	Fathead minnow	Experimental	96 hours	LC50	227 mg/l
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	7534-94-3	Green Algae	Experimental	96 hours	EC50	2.7 mg/l
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	7534-94-3	Water flea	Experimental	48 hours	EC50	1.1 mg/l
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	7534-94-3	Zebra Fish	Experimental	96 hours	LC50	1.8 mg/l
Tetrahydrofurfuryl 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 dimethacrylate, ethoxylated	41637-38-1		Data not available or insufficient for classification			
Fillers - N.J.T.S. Reg. No. 04499600-6923	Trade Secret		Data not available or insufficient for classification			

12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Exo-1,7,7-trimethylbicyclo[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
2-Hydroxyethyl methacrylate	868-77-9	Experimental Hydrolysis		Hydrolytic half-life	10.9 days (t _{1/2})	Other methods
Acrylonitrile - butadiene polymer	9003-18-3	Data not available or insufficient for	N/A	N/A	N/A	N/A

3M(TM) Scotch-Weld(TM) Low Odour Acrylic Adhesive DP8810NS Green, Part B

		classification				
Fillers - N.J.T.S. Reg. No. 04499600- 6923	Trade Secret	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
Naphthenic acids, copper salts	1338-02-9	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	Experimental Biodegradation	28 days	BOD	26.8 % weight	OECD 301D - Closed bottle test

12.3 : Bioaccumulative potential

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

12.4. Mobility in soil

Please contact manufacturer for more details

12.5. Results of the PBT and vPvB assessment

3M(TM) Scotch-Weld(TM) Low Odour Acrylic Adhesive DP8810NS Green, Part B

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: UN3082, Not restricted As Per Special Provision 375, Environmentally Hazardous Substance Exemption; III.
IATA: UN3082, Not restricted As Per Special Provision A197, Environmentally Hazardous Substance Exemption; III.
IMDG: UN3082, Not restricted as per IMDG code 2.10.2.7, Marine Pollutant Exception; III; IMDG-Code segregation code: None, EmS: --.

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 12: Component ecotoxicity information information was modified.
Section 12: Persistence and Degradability information information was modified.
Section 12:Biocumulative potential information information was modified.
Section 14: Transportation classification information was modified.
Section 15: Regulations - Inventories 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