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 Scotch-Weld UV02 UV Curing Adhesive

Product identification numbers

GS-2000-4521-8 GS-2000-5731-2

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

Identified uses

Industrial use.

1.3. Details of the supplier of the substance or mixture

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

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

Dangerous substances(67/548/EEC)/preparations(1999/45/EC) directive
Indication of danger

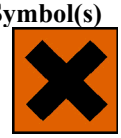
Harmful; Xn; R22
Irritant; Xi; R36/37/38
Sensitizing; R43
Dangerous for the environment; R52/53

For full text of R phrases, see Section 16.

2.2. Label elements

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

Symbol(s)



Harmful

Contains:
Pentaerythritol tetrakis(3-mercaptopropionate)

Risk phrases

R22	Harmful if swallowed.
R36/37/38	Irritating to eyes, respiratory system and skin.
R43	May cause sensitisation by skin contact.
R52/53	Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Safety phrases

S24	Avoid contact with skin.
S37	Wear suitable gloves.
S61	Avoid release to the environment. Refer to special instructions/safety data sheets.

Notes on labelling

For containers <125 mL, label with: Xn; R22-43 and S24-37.

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients

Ingredient	CAS Nbr	EU Inventory	% by Wt	Classification
Epoxy acrylate oligomer	Trade Secret		30 - 60	
Pentaerythritol tetrakis(3-mercaptopropionate)	7575-23-7	EINECS 231-472-8	15 - 40	Xn:R22; R43 (Vendor) Acute Tox. 4, H302; Skin Sens. 1, H317 (Vendor)
2,4,6-triallyloxy-1,3,5-triazine	101-37-1	EINECS 202-936-7	10 - 30	N:R51/53 (Self Classified) Aquatic Chronic 2, H411 (Self Classified)
Acrylic acid	79-10-7	EINECS 201-177-9	1 - 5	C:R35; Xn:R20-21-22; N:R50; R10 - Nota D (EU) Flam. Liq. 3, H226; Acute Tox. 3, H311; Acute Tox. 4, H332; Acute Tox. 4, H302; Skin Corr. 1A, H314; STOT SE 3, H335; Aquatic Acute 1, H400,M=1 - Nota D (CLP) Aquatic Chronic 2, H411 (Self Classified)
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	EINECS 278-355-8	0.5 - 1.5	Repr.Cat.3:R62 (EU)

				Repr. 2, H361f (CLP)
4-Methoxyphenol	150-76-5	EINECS 205-769-8	0.1 - 1	Xn:R22; Xi:R36; R43 (EU) R52 (Self Classified) Acute Tox. 4, H302; Eye Irrit. 2, H319; Skin Sens. 1, H317 (CLP)

Please see section 16 for the full text of any R phrases and H statements referred to in this section
Please refer to section 15 for the 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	Condition
Carbon monoxide.	During combustion.
Carbon dioxide.	During combustion.

5.3. Advice for fire-fighters
No unusual fire or explosion hazards 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. Warning: A motor could be an ignition source and could cause flammable gases or vapours in the spill area to burn or explode. 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 toxic, corrosivity or flammability hazard. 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
For industrial or professional use only. Do not handle until all safety precautions have been read and understood. 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.) Use personal protective equipment (eg. gloves, respirators…) as required.

7.2. Conditions for safe storage including any incompatibilities
Store in a well-ventilated place. Keep container tightly closed. Protect from sunlight. Store away from heat. Store away from oxidising agents.

7.3. Specific end use(s)
See information in Section 7.1 and 7.2 for handling and storage recommendations. See Section 8 for exposure controls and personal protection recommendations.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient	CAS Nbr	Agency	Limit type	Additional comments
Acrylic acid	79-10-7	Manufacturer determined	STEL:5 ppm(15 mg/m3)	

Health and Safety Comm. (UK) : UK Health and Safety Commission
TWA: Time-Weighted-Average
STEL: Short Term Exposure Limit
CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls

Curing enclosures must be exhausted to outdoors or to a suitable emission control device. 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

Wear 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:
Safety glasses with side shields.
Indirect vented goggles.

Skin/hand protection

Wear protective gloves.
Gloves made from the following material(s) are recommended: Fluoroelastomer
Nitrile rubber.

Respiratory protection

In case of inadequate ventilation wear 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

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.
Appearance/Odour	Pale yellow coloured liquid; strong ester-like odour.
Odour threshold	*No data available.*
pH	*Not applicable.*
Boiling point/boiling range	>=100 ºC
Melting point	*Not applicable.*
Flammability (solid, gas)	Not applicable.
Explosive properties	Not classified
Oxidising properties	Not classified
Flash point	>=100 ºC [*Test Method:*Closed Cup]
Autoignition temperature	*No data available.*
Flammable Limits(LEL)	*No data available.*
Flammable Limits(UEL)	*No data available.*
Vapour pressure	<=133.3 Pa [@ 20 ºC]
Relative density	1.15 [*Ref Std:*WATER=1]
Water solubility	Nil
Solubility- non-water	*No data available.*
Partition coefficient: n-octanol/water	*No data available.*
Evaporation rate	Negligible
Vapour density	*No data available.*

Decomposition temperature	*No data available.*
Viscosity	2.6 - 3.8 Pa-s [@ 23 ºC]
Density	1.15 g/ml

9.2. Other information

Hazardous air pollutants	2.0 % weight
Volatile organic compounds (VOC)	*No data available.*
VOC less H2O & exempt solvents	*No data available.*

SECTION 10: Stability and reactivity

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

10.2 Chemical stability
Stable.

10.3 Possibility of hazardous reactions
Hazardous polymerisation will not occur.

10.4 Conditions to avoid
Heat.
Sparks and/or flames.
Light.

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

11.1 Information on Toxicological effects

Signs and Symptoms of Exposure

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

Inhalation
Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

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

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

Ingestion
May be harmful if swallowed.
Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea.

Reproductive/Developmental Toxicity:
Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

Toxicological Data

Acute Toxicity

Name	Route	Species	Value
Overall product	Ingestion		Data not available or insufficient for classification; calculated ATE2,137.5 mg/kg
Pentaerythritol tetrakis(3-mercaptopropionate)			Data not available or insufficient for classification
2,4,6-triallyloxy-1,3,5-triazine			Data not available or insufficient for classification
Acrylic acid	Dermal	Rabbit	LD50 295 mg/kg
Acrylic acid	Inhalation-Dust/Mist (4 hours)	Rat	LC50 3.8 mg/l
Acrylic acid	Ingestion	Rat	LD50 1,250 mg/kg
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	Ingestion	Rat	LD50 > 5,000 mg/kg
4-Methoxyphenol	Ingestion	Rat	LD50 1,600 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Pentaerythritol tetrakis(3-mercaptopropionate)		Data not available or insufficient for classification
2,4,6-triallyloxy-1,3,5-triazine		Data not available or insufficient for classification
Acrylic acid	Rabbit	Corrosive
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	Rabbit	No significant irritation
4-Methoxyphenol		Data not available or insufficient for classification

Serious Eye Damage/Irritation

Name	Species	Value
Pentaerythritol tetrakis(3-mercaptopropionate)		Data not available or insufficient for classification
2,4,6-triallyloxy-1,3,5-triazine		Data not available or insufficient for classification
Acrylic acid	Rabbit	Corrosive
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	Rabbit	No significant irritation
4-Methoxyphenol		Data not available or insufficient for classification

Skin Sensitisation

Name	Species	Value
Pentaerythritol tetrakis(3-mercaptopropionate)		Data not available or insufficient for classification
2,4,6-triallyloxy-1,3,5-triazine		Data not available or insufficient for classification
Acrylic acid	Guinea pig	Some positive data exist, but the data are not sufficient for classification
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide		Data not available or insufficient for classification
4-Methoxyphenol		Data not available or insufficient for classification

Respiratory Sensitisation

Name	Species	Value
Pentaerythritol tetrakis(3-mercaptopropionate)		Data not available or insufficient for classification

2,4,6-triallyloxy-1,3,5-triazine		Data not available or insufficient for classification
Acrylic acid		Data not available or insufficient for classification
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide		Data not available or insufficient for classification
4-Methoxyphenol		Data not available or insufficient for classification

Germ Cell Mutagenicity

Name	Route	Value
Pentaerythritol tetrakis(3-mercaptopropionate)		Data not available or insufficient for classification
2,4,6-triallyloxy-1,3,5-triazine		Data not available or insufficient for classification
Acrylic acid	In vivo	Not mutagenic
Acrylic acid	In Vitro	Some positive data exist, but the data are not sufficient for classification
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	In Vitro	Not mutagenic
4-Methoxyphenol		Data not available or insufficient for classification

Carcinogenicity

Name	Route	Species	Value
Pentaerythritol tetrakis(3-mercaptopropionate)			Data not available or insufficient for classification
2,4,6-triallyloxy-1,3,5-triazine			Data not available or insufficient for classification
Acrylic acid	Ingestion	Rat	Not carcinogenic
Acrylic acid	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide			Data not available or insufficient for classification
4-Methoxyphenol			Data not available or insufficient for classification

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
Pentaerythritol tetrakis(3-mercaptopropionate)		Data not available or insufficient for classification			
2,4,6-triallyloxy-1,3,5-triazine		Data not available or insufficient for classification			
Acrylic acid	Ingestion	Not toxic to female reproduction	Rat	NOAEL 460 mg/kg/day	2 generation
Acrylic acid	Ingestion	Not toxic to male reproduction	Rat	NOAEL 460 mg/kg/day	2 generation
Acrylic acid	Inhalation	Not toxic to development	Rat	NOAEL 1.1 mg/l	during organogenesis
Acrylic acid	Ingestion	Some positive developmental data exist, but the data are not sufficient for classification	Rat	NOAEL 53 mg/kg/day	2 generation
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	Ingestion	Toxic to male reproduction	Rat	NOAEL 100 mg/kg/day	90 days
4-Methoxyphenol		Data not available or insufficient for classification			

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Pentaerythritol tetrakis(3-mercaptopropionate)			Data not available or insufficient for classification			
2,4,6-triallyloxy-1,3,5-triazine			Data not available or insufficient for classification			
Acrylic acid	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	
4-Methoxyphenol			Data not available or insufficient for classification			

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Pentaerythritol tetrakis(3-mercaptopropionate)			Data not available or insufficient for classification			
2,4,6-triallyloxy-1,3,5-triazine			Data not available or insufficient for classification			
Acrylic acid			Data not available or insufficient for classification			
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	Ingestion	skin | blood | liver | kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 1,000 mg/kg/day	90 days
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	Ingestion	nervous system	All data are negative	Rat	NOAEL 1,000 mg/kg/day	90 days
4-Methoxyphenol			Data not available or insufficient for classification			

Aspiration Hazard

Name	Value
Pentaerythritol tetrakis(3-mercaptopropionate)	Not an aspiration hazard
2,4,6-triallyloxy-1,3,5-triazine	Not an aspiration hazard
Acrylic acid	Not an aspiration hazard
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	Not an aspiration hazard
4-Methoxyphenol	Not an aspiration hazard

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

SECTION 12: Ecological information

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

12.1. Toxicity

No product test data available.

Material	CAS Nbr	Organism	Type	Exposure	Test endpoint	Test result
4-Methoxyphenol	150-76-5	Fathead minnow	Experimental	96 hours	LC50	84.3 mg/l
Acrylic acid	79-10-7	Water flea	Experimental	48 hours	EC50	47 mg/l
Acrylic acid	79-10-7	Rainbow trout	Experimental	96 hours	LC50	27 mg/l
Acrylic acid	79-10-7	Green algae	Experimental	72 hours	EC50	0.13 mg/l
2,4,6-triallyloxy-1,3,5-triazine	101-37-1	Fathead minnow	Estimated	96 hours	LC50	<=0.25 mg/l
Acrylic acid	79-10-7	Green algae	Experimental	72 hours	NOEC	0.025 mg/l
Acrylic acid	79-10-7	Water flea	Experimental	21 days	NOEC	3.8 mg/l
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8		Data not available or insufficient for classification			
Pentaerythritol	7575-23-7		Insufficient to			

tetrakis(3-mercaptopropionate)			classify			

12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Pentaerythritol tetrakis(3-mercaptopropionate)	7575-23-7	Calculated Biodegradation	28 days	CO2 evolution	32 % weight	OECD 301B - Modified sturm or CO2
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	Estimated Biodegradation	28 days	BOD	<20 % weight	OECD 301F - Manometric respirometry
4-Methoxyphenol	150-76-5	Experimental Biodegradation	28 days	BOD	86 % weight	OECD 301C - MITI test (I)
Acrylic acid	79-10-7	Experimental Biodegradation	28 days	BOD	81 % weight	OECD 301D - Closed bottle test
2,4,6-triallyloxy-1,3,5-triazine	101-37-1	Experimental Biodegradation	28 days	CO2 evolution	<9 % weight	OECD 301B - Modified sturm or CO2

12.3 : Bioaccumulative potential

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Pentaerythritol tetrakis(3-mercaptopropionate)	7575-23-7	Calculated BCF - Other		Bioaccumulation factor	5	Estimated: Bioconcentration factor
2,4,6-triallyloxy-1,3,5-triazine	101-37-1	Estimated BCF - Other		Bioaccumulation factor	1261	Other methods
Acrylic acid	79-10-7	Experimental Bioconcentration		Log Kow	0.35	Other methods
4-Methoxyphenol	150-76-5	Experimental Bioconcentration		Log Kow	1.58	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. If no other disposal options are available, waste product that has been completely cured or polymerised may be placed in a landfill properly designed for industrial waste. 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

GS-2000-4521-8, GS-2000-5731-2

ADR/RID: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE,LIQUID,N.O.S.LIMITED QUANTITY, (TRIAZINE DERIVATIVE), (ACRYLIC ACID), 9., III, (E), ADR Classification Code: M6.
IMDG-CODE: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE,LIQUID, N.O.S., (TRIAZINE DERIVATIVE), (ACRYLIC ACID), 9., III, LIMITED QUANTITY, EMS: FA,SF.
ICAO/IATA: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE,LIQUID,N.O.S., (TRIAZINE DERIVATIVE), (ACRYLIC ACID), 9., III, fish and tree marking may be required (> 5kg/l).

SECTION 15: Regulatory information

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

Carcinogenicity

Ingredient	CAS Nbr	Classification	Regulation
Acrylic acid	79-10-7	Gr. 3: Not classifiable	International Agency for Research on Cancer

Global inventory status
Contact 3M for more information.

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.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H361f	Suspected of damaging fertility.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

List of relevant R-phrases

R10	Flammable.
R20	Harmful by inhalation.
R21	Harmful in contact with skin.
R22	Harmful if swallowed.
R35	Causes severe burns.
R36	Irritating to eyes.
R36/37/38	Irritating to eyes, respiratory system and skin.
R43	May cause sensitisation by skin contact.
R50	Very toxic to aquatic organisms.
R51/53	Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
R52	Harmful to aquatic organisms.
R52/53	Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
R62	Possible risk of impaired fertility.

Revision information:
Revision Changes:
Risk phrase information was modified.
Section 16: List of relevant R phrase information information was modified.
Section 3: Composition/ Information of ingredients table information was modified.
Section 2: Indication of danger information information was modified.
Section 8: Personal Protection - Eye information information was modified.
Section 8: Personal Protection - Respiratory Information information was modified.
Section 13: 13.1. Waste disposal note information was modified.
Label: Graphic information was modified.
Section 2: Notes on labelling heading information was added.
Section 2: Label remarks information was added.
Section 8: Eye/face protection text information was deleted.
Section 8: Respiratory protection - recommended respirators information was deleted.
Section 8: Skin protection - protective clothing text information was deleted.
Section 8: mg/m³ key information was deleted.
Section 8: ppm key information was deleted.
Label: Graphic Text 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