



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 1601 Sealer

Product identification numbers

DE-9999-5331-3

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

Identified uses

Electrical insulating spray.

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

Extremely flammable.

Irritant.

2.2. Label elements

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

Symbols

F+ Extremely flammable.

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Xi Irritant.

Contains:

No ingredients are assigned to the label.

Risk phrases

R12 Extremely flammable.
 R36 Irritating to eyes.
 R66 Repeated exposure may cause skin dryness or cracking.
 R67 Vapours may cause drowsiness and dizziness.

Safety phrases

S16 Keep away from sources of ignition - No Smoking.
 S2 Keep out of the reach of children.
 S23C Do not breathe vapour or spray.
 S51 Use only in well ventilated areas.
 S24 Avoid contact with skin.
 S62 If swallowed, do not induce vomiting: Seek medical advice immediately and show this container or label.

Special provisions concerning the labelling of certain substances

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material.

Notes on labelling

Nota P applied to CAS 64742-95-6.

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients

Ingredient	CAS Nbr	EU Inventory	% by Wt	Classification
Acetone	67-64-1	EINECS 200-662-2	20 - 30	F:R11; Xi:R36; R66; R67 (EU) Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336 (CLP)
Butane	106-97-8	EINECS 203-448-7	15 - 25	F+:R12 - Nota C (EU) Flam. Gas 1, H220; Liquified gas, H280 - Nota C,U (CLP)
Acrylic resin	None		5 - 20	
Propane	74-98-6	EINECS 200-827-9	10 - 20	F+:R12 (EU) Flam. Gas 1, H220; Liquified gas, H280 - Nota U (CLP)
n-butyl acetate	123-86-4	EINECS 204-658-1	5 - 15	R10; R66; R67 (EU) Flam. Liq. 3, H226; STOT SE 3, H336 (CLP)
Xylene	1330-20-7	EINECS 215-	5 - 12	Xn:R20-21; Xi:R38; R10 - Nota

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		535-7		C (EU) Flam. Liq. 3, H226; Acute Tox. 4, H332; Acute Tox. 4, H312; Skin Irrit. 2, H315 - Nota C (CLP)
Solvent naphtha (petroleum), light aromatic	64742-95-6	EINECS 265-199-0	5 - 10	Xn:R65 - Nota 4,P (EU) R10 (Vendor) R66; R67 (Self Classified) Asp. Tox. 1, H304 - Nota P (CLP) Flam. Liq. 3, H226 (Vendor) STOT SE 3, H336 (Self Classified)
Ethyl acetate	141-78-6	EINECS 205-500-4	1 - 5	F:R11; Xi:R36; R66; R67 (EU) Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336 (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****Eye contact**

Immediately flush with large amounts of water for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately get medical attention.

Skin contact

Wash with soap and water. If signs/symptoms develop, get medical attention.

Inhalation

Remove person to fresh air. 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

Exposure may increase myocardial irritability. Do not administer sympathomimetic drugs unless absolutely necessary.

SECTION 5: Fire-fighting measures**5.1. Extinguishing media**

In case of fire: Use a fire fighting agent suitable for flammable liquids or gases such as dry chemical or carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Closed containers exposed to heat from fire may build pressure and explode.

5.3. Advice for fire-fighters

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. 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. Cover spill area with a fire-extinguishing foam. An appropriate aqueous film forming foam (AFFF) is recommended. 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. Collect as much of the spilled material as possible using non-sparking tools. 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. Place in a metal container approved for transportation by appropriate authorities. 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 use in a confined area or areas with little or no air movement. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) Vapours may travel long distances along the ground or floor to an ignition source and flash back.

7.2. Conditions for safe storage including any incompatibilities

Store away from acids. Store away from oxidising agents. Store in a well-ventilated place. Keep container tightly closed. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

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
Butane	106-97-8	Health and Safety Comm.	TWA:1450 mg/m ³ (600 ppm);STEL:1810 mg/m ³ (750	

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n-butyl acetate	123-86-4	(UK) Health and Safety Comm.	ppm) TWA:724 mg/m ³ (150 ppm);STEL:966 mg/m ³ (200 ppm)	
Xylene	1330-20-7	(UK) Health and Safety Comm.	ppm) TWA:220 mg/m ³ (50 ppm);STEL:441 mg/m ³ (100 ppm)	Skin Notation
Ethyl acetate	141-78-6	(UK) Health and Safety Comm.	ppm) TWA:200 ppm;STEL:400 ppm	
Acetone	67-64-1	(UK) Health and Safety Comm.	TWA:1210 mg/m ³ (500 ppm);STEL:3620 mg/m ³ (1500 ppm)	
Propane	74-98-6	(UK) Health and Safety Comm.	Limit value not established:	asphyxiant

Health and Safety Comm. (UK) : UK Health and Safety Commission

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

ppm: parts per million

mg/m³: milligrams per cubic metre

CEL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/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.

The following eye protection(s) are recommended: Indirect vented goggles.

Skin/hand protection

Wear protective gloves.

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

Polyvinyl alcohol (PVA).

Polymer laminate

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Select one of the following approved respirators based on airborne concentration of contaminants and in accordance with regulations:

Half face piece or full face air-purifying respirator with organic vapour cartridges.

Half facepiece or fullface supplied-air respirator.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Liquid.

Appearance/Odour

Clear; Solvent odour.

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pH	<i>Not applicable.</i>
Boiling point/boiling range	<i>No data available.</i>
Melting point	<i>No data available.</i>
Flammability (solid, gas)	Flammable Aerosol: Category 1.
Explosive properties	Not classified
Oxidising properties	Not classified
Flash point	± -30 °C
Autoignition temperature	300 °C
Flammable Limits(LEL)	0.8 %
Flammable Limits(UEL)	<i>No data available.</i>
Vapour pressure	320,000 Pa
Relative density	<i>No data available.</i>
Water solubility	Nil
Partition coefficient: n-octanol/water	<i>No data available.</i>
Evaporation rate	<i>No data available.</i>
Vapour density	0.788 g/ml
Viscosity	<i>Not applicable.</i>

9.2. Other information

Volatile organic compounds (VOC)	<i>No data available.</i>
Percent volatile	60 - 95 %
VOC less H₂O & exempt solvents	<i>No data available.</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

None known.

10.5 Incompatible materials

Strong oxidising agents.

10.6 Hazardous decomposition products

<u>Substance</u>	<u>Condition</u>
Carbon dioxide.	Not specified.
Carbon monoxide.	Not specified.
Hydrocarbons.	Not specified.

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:

Eye contact

Moderate eye irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Skin contact

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness.

Inhalation

Intentional concentration and inhalation may be harmful or fatal. Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. May cause target organ effects after inhalation.

Ingestion

Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea. May cause target organ effects after ingestion.

Target Organ Effects:

Auditory effects: Signs/symptoms may include hearing impairment, balance dysfunction and ringing in the ears. Central nervous system (CNS) depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness. Cardiac sensitisation: Signs/symptoms may include irregular heartbeat (arrhythmia), faintness, chest pain, and may be fatal. Respiratory effects: Signs/symptoms may include cough, shortness of breath, chest tightness, wheezing, increased heart rate, bluish coloured skin (cyanosis), sputum production, changes in lung function tests, and respiratory failure.

Prolonged or repeated exposure may cause:

Neurological effects: Signs/symptoms may include personality changes, lack of coordination, sensory loss, tingling or numbness of the extremities, weakness, tremors, and changes in blood pressure and heart rate.

Toxicological Data

Acute Toxicity

Name	Route	Species	Value	UN GHS Classification
Overall product	Ingestion		No test data available; calculated ATE >5,000 mg/kg	Not classified (13.51% unknown)
Acetone	Dermal	Rabbit	LD50 > 15,688 mg/kg	Not classified
Acetone	Inhalation-Vapor (4 hours)	Rat	LC50 76 mg/l	Not classified
Acetone	Ingestion	Rat	LD50 5,800 mg/kg	Not classified
Butane	Inhalation-Gas (4 hours)	Rat	LC50 277,000 ppm	Not classified
Propane	Inhalation-Gas (4 hours)	Rat	LC50 > 200,000 ppm	Not classified
n-butyl acetate	Dermal	Rabbit	LD50 > 5,000 mg/kg	Not classified
n-butyl acetate	Inhalation-Vapor (4 hours)	Rat	LC50 1 mg/l	Category4
n-butyl acetate	Ingestion	Rat	LD50 > 8,800 mg/kg	Not classified
Solvent naphtha (petroleum), light	Dermal	Rabbit	LD50 > 2,000 mg/kg	Not classified

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aromatic				
Solvent naphtha (petroleum), light aromatic	Inhalation-Vapor (4 hours)	Rat	LC50 > 5.2 mg/l	Category5
Solvent naphtha (petroleum), light aromatic	Ingestion	Rat	LD50 > 5,000 mg/kg	Not classified
Xylene	Dermal	Rabbit	LD50 > 4,300 mg/kg	Category5
Xylene	Inhalation-Vapor (4 hours)	Rat	LC50 28 mg/l	Category5
Xylene	Ingestion	Rat	LD50 3,523 mg/kg	Category5
Ethyl acetate	Dermal	Rabbit	LD50 > 18,000 mg/kg	Not classified
Ethyl acetate	Inhalation-Vapor (4 hours)	Rat	LC50 71 mg/l	Not classified
Ethyl acetate	Ingestion	Rat	LD50 5,620 mg/kg	Not classified

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value	UN GHS Classification
Overall product		No test data available; calculated to be mild irritant	Category 3
Acetone		Minimal irritation	Not classified
Butane		No significant irritation	Not classified
Propane		Minimal irritation	Not classified
n-butyl acetate		Minimal irritation	Not classified
Solvent naphtha (petroleum), light aromatic		Minimal irritation	Not classified
Xylene		Mild irritant	Category 3
Ethyl acetate		Minimal irritation	Not classified

Serious Eye Damage/Irritation

Name	Species	Value	UN GHS Classification
Overall product		No test data available; calculated to be moderate irritant	Category 2B
Acetone		Severe irritant	Category 2A
Butane		No significant irritation	Not classified
Propane		Mild irritant	Not classified
n-butyl acetate		Moderate irritant	Category 2B
Solvent naphtha (petroleum), light aromatic		Mild irritant	Not classified
Xylene		Mild irritant	Not classified
Ethyl acetate		Moderate irritant	Category 2B

Skin Sensitisation

Name	Species	Value	UN GHS Classification
Overall product		No test data available.	Not classified based on component data
Acetone		No data available	
Butane		No data available	
Propane		No data available	
n-butyl acetate		Not sensitizing	Not classified
Solvent naphtha (petroleum), light aromatic		Not sensitizing	Not classified
Xylene		No data available	
Ethyl acetate		Not sensitizing	Not classified

Respiratory Sensitisation

Name	Species	Value	UN GHS Classification
Overall product		No test data available.	Not classified based on component data
Acetone		No data available	
Butane		No data available	
Propane		No data available	

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n-butyl acetate		No data available	
Solvent naphtha (petroleum), light aromatic		No data available	
Xylene		No data available	
Ethyl acetate		No data available	

Germ Cell Mutagenicity

Name	Route	Value	UN GHS Classification
Overall product		No data available	Overall Germ Cell Mutagenicity classification Not classified
Overall product		No test data available.	
Acetone	In vivo	Some positive data exist, but the data are not sufficient for classification	Not classified
Butane	In Vitro	Not mutagenic	Not classified
Propane	In Vitro	Not mutagenic	Not classified
n-butyl acetate	In Vitro	Not mutagenic	Not classified
Solvent naphtha (petroleum), light aromatic	In Vitro	Some positive data exist, but the data are not sufficient for classification	Not classified
Xylene	In Vitro	Not mutagenic	Not classified
Xylene	In vivo	Not mutagenic	Not classified
Ethyl acetate	In Vitro	Some positive data exist, but the data are not sufficient for classification	Not classified

Carcinogenicity

Name	Route	Species	Value	UN GHS Classification
Overall product			No test data available.	Not classified based on component data
Acetone	Not specified.		Not carcinogenic	Not classified
Butane			No data available	
Propane			No data available	
n-butyl acetate			No data available	
Solvent naphtha (petroleum), light aromatic	Dermal		Not carcinogenic	Not classified
Solvent naphtha (petroleum), light aromatic	Inhalation		Some positive data exist, but the data are not sufficient for classification	Not classified
Xylene	Dermal		Not carcinogenic	Not classified
Xylene	Ingestion		Not carcinogenic	Not classified
Xylene	Inhalation		Some positive data exist, but the data are not sufficient for classification	Not classified
Ethyl acetate			No data available	

Reproductive Toxicity**Reproductive and/or Developmental Effects**

Name	Route	Value	Species	Test result	Exposure Duration	UN GHS Classification
Overall product		No test data available.				Not classified based on component data
Acetone	Ingestion	Some positive reproductive/developmental data exist, but the data are not sufficient for		NOEL 1,700 mg/kg/day		

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		classification				
Acetone	Inhalation	Some positive reproductive/developmental data exist, but the data are not sufficient for classification		NOEL 5.2 mg/l		
Butane		No data available				
Propane		No data available				
n-butyl acetate	Inhalation	Some positive reproductive/developmental data exist, but the data are not sufficient for classification		NOAEL 1,500 ppm		
Solvent naphtha (petroleum), light aromatic	Inhalation	Some positive reproductive/developmental data exist, but the data are not sufficient for classification		NOEL 500 ppm		
Xylene	Ingestion	Some positive reproductive/developmental data exist, but the data are not sufficient for classification		LOAEL 2,060 mg/kg/day		
Xylene	Inhalation	Some positive reproductive/developmental data exist, but the data are not sufficient for classification		NOAEL N/A		
Ethyl acetate		No data available				

Lactation

Name	Route	Species	Value	UN GHS Classification
Overall product			No test data available.	Not classified based on component data
Xylene	Ingestion		Does not cause effects on or via lactation	Not classified

Target Organ(s)
Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration	UN GHS Classification
Overall product			No test data available.				Category 1 based on component data
Acetone	Inhalation	central nervous system depression	May cause drowsiness or dizziness		LOAEL 0.6 mg/l		Category 3
Acetone	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for		Irritation Positive		Not classified

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			classification				
Acetone	Inhalation	hematopoietic system	Some positive data exist, but the data are not sufficient for classification		NOEL 0.6 mg/l		Not classified
Acetone	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification		LOEL 24 mg/l		Not classified
Acetone	Inhalation	immune system	Some positive data exist, but the data are not sufficient for classification		NOEL 0.6 mg/l		Not classified
Acetone	Ingestion	central nervous system depression	May cause drowsiness or dizziness		NOAEL N/A		Category 3
Butane	Inhalation	cardiac sensitization	Causes damage to organs		NOAEL N/A		Category 1
Butane	Inhalation	central nervous system depression	May cause drowsiness or dizziness		LOAEL 10,000 ppm		Category 3
Butane	Inhalation	heart	Some positive data exist, but the data are not sufficient for classification		LOEL 5,000 ppm		Not classified
Butane	Inhalation	respiratory irritation	All data are negative		Irritation Negative		Not classified
Propane	Inhalation	cardiac sensitization	Causes damage to organs		LOAEL 100,000 ppm		Category 1
Propane	Inhalation	central nervous system depression	May cause drowsiness or dizziness		NOAEL N/A		Category 3
Propane	Inhalation	respiratory irritation	All data are negative		Irritation Negative		Not classified
n-butyl acetate	Inhalation	respiratory system	May cause damage to organs		LOAEL 2,565 mg/m ³		Category 2
n-butyl acetate	Inhalation	central nervous system depression	May cause drowsiness or dizziness		NOAEL N/A		Category 3
n-butyl acetate	Inhalation	respiratory irritation	May cause respiratory irritation		Irritation Positive		Category 3
Solvent naphtha (petroleum), light aromatic	Inhalation	central nervous system depression	May cause drowsiness or dizziness		NOAEL N/A		Category 3
Solvent naphtha (petroleum), light aromatic	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for		Irritation Positive		Not classified

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			classification				
Solvent naphtha (petroleum), light aromatic	Ingestion	central nervous system depression	May cause drowsiness or dizziness		NOAEL N/A		Category 3
Xylene	Inhalation	auditory system	Causes damage to organs		LOAEL 6.3 mg/l		Category 1
Xylene	Inhalation	central nervous system depression	May cause drowsiness or dizziness		LOAEL 0.43 mg/l		Category 3
Xylene	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		Irritation Positive		Not classified
Xylene	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification		NOEL N/A		Not classified
Xylene	Inhalation	eyes	Some positive data exist, but the data are not sufficient for classification		NOEL 3.5 mg/l		Not classified
Xylene	Inhalation	nervous system	All data are negative		NOAEL 0.65 mg/l		Not classified
Xylene	Ingestion	central nervous system depression	May cause drowsiness or dizziness		NOAEL N/A		Category 3
Xylene	Ingestion	eyes	Some positive data exist, but the data are not sufficient for classification		NOEL 125 mg/kg		Not classified
Ethyl acetate	Inhalation	central nervous system depression	May cause drowsiness or dizziness		NOAEL N/A		Category 3
Ethyl acetate	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		Irritation Positive		Not classified
Ethyl acetate	Ingestion	central nervous system depression	May cause drowsiness or dizziness		NOAEL N/A		Category 3

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration	UN GHS Classification
Overall product			No test data available.				Category 1 based on component data
Acetone	Dermal	eyes	Some positive data exist, but the data are not sufficient for classification		NOEL N/A		Not classified

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Acetone	Inhalation	hematopoietic system immune system	Some positive data exist, but the data are not sufficient for classification		NOEL 0.6 mg/l		Not classified
Acetone	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification		LOAEL 119 mg/l		Not classified
Acetone	Inhalation	heart	All data are negative		NOAEL 19,000 ppm		Not classified
Acetone	Inhalation	liver	All data are negative		NOAEL 45 mg/l		Not classified
Acetone	Ingestion	heart	Some positive data exist, but the data are not sufficient for classification		LOEL 2,500 mg/kg/day		Not classified
Acetone	Ingestion	hematopoietic system	Some positive data exist, but the data are not sufficient for classification		NOEL 200 mg/kg/day		Not classified
Acetone	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification		NOEL 1,579 mg/kg/day		Not classified
Acetone	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification		NOEL 900 mg/kg/day		Not classified
Acetone	Ingestion	respiratory system	Some positive data exist, but the data are not sufficient for classification		NOEL N/A		Not classified
Acetone	Ingestion	skin	All data are negative		NOAEL 11,298 mg/kg/day		Not classified
Acetone	Ingestion	bone, teeth, nails, and/or hair	All data are negative		NOAEL 11,298 mg/kg		Not classified
Acetone	Ingestion	muscles	All data are negative		NOAEL 2,500 mg/kg		Not classified
Acetone	Ingestion	eyes	All data are negative		NOAEL 11,298 mg/kg/day		Not classified
Butane	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification		LOEL 1,017 ppm		Not classified
Butane	Inhalation	blood	All data are negative		NOAEL 4,489 ppm		Not classified
Propane			No data available				
n-butyl acetate	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification		LOEL 7,260 mg/m3		Not classified
n-butyl acetate	Inhalation	olfactory system	Some positive data exist, but the data are not sufficient for classification		NOAEL 2,400 mg/m3		Not classified
n-butyl acetate	Inhalation	kidney and/or	Some positive data exist, but the data		LOEL 7,260		Not classified

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		bladder	are not sufficient for classification		mg/m3		
Solvent naphtha (petroleum), light aromatic	Inhalation	hematopoietic system liver	Some positive data exist, but the data are not sufficient for classification		NOEL 0.9 mg/l		Not classified
Solvent naphtha (petroleum), light aromatic	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification		NOEL 12.6 mg/l		Not classified
Xylene	Inhalation	nervous system	Causes damage to organs through prolonged or repeated exposure		LOAEL 0.4 mg/l		Category 1
Xylene	Inhalation	auditory system	May cause damage to organs through prolonged or repeated exposure		LOAEL 7.8 mg/l		Category 2
Xylene	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification		NOEL N/A		Not classified
Xylene	Inhalation	heart endocrine system hematopoietic system muscles kidney and/or bladder respiratory system	All data are negative		NOAEL 3.5 mg/l		Not classified
Xylene	Ingestion	auditory system	Some positive data exist, but the data are not sufficient for classification		LOEL 900 mg/kg/day		Not classified
Xylene	Ingestion	liver kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification		NOEL N/A		Not classified
Xylene	Ingestion	heart skin endocrine system bone, teeth, nails, and/or hair hematopoietic system immune system nervous system respiratory system	All data are negative		NOAEL 1,000 mg/kg/day		Not classified
Ethyl acetate	Inhalation	endocrine system	Some positive data exist, but the data are not sufficient for classification		NOEL 0.002 mg/l		Not classified
Ethyl acetate	Inhalation	hematopoietic system	Some positive data exist, but the data		NOEL 16 mg/l		Not classified

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			are not sufficient for classification				
Ethyl acetate	Inhalation	liver nervous system	Some positive data exist, but the data are not sufficient for classification		NOEL 0.002 mg/l		Not classified
Ethyl acetate	Ingestion	hematopoietic system liver kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification		NOEL 900 mg/kg/day		Not classified

Aspiration Hazard

Name	Value	UN GHS Classification
Overall product	No test data available.	Not classified based on component and/or viscosity data
Acetone	Not an aspiration hazard	Not classified
Butane	Not an aspiration hazard	Not classified
Propane	Not an aspiration hazard	Not classified
n-butyl acetate	Not an aspiration hazard	Not classified
Solvent naphtha (petroleum), light aromatic	Aspiration hazard	Category 1
Xylene	Aspiration hazard	Category 1
Ethyl acetate	Not an aspiration hazard	Not classified

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**Acute aquatic hazard:**

Not acutely toxic to aquatic life by GHS criteria.

Chronic aquatic hazard:

Not chronically toxic to aquatic life by GHS criteria.

No product test data available.

No component test data available.

12.2. Persistence and degradability

No test data available.

12.3 : Bioaccumulative potential

No test data available.

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

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

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. Incinerate in a permitted waste incineration facility. As a disposal alternative, utilize an acceptable permitted waste disposal facility.

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)

16 05 04* Gases in pressure containers (including halons) containing dangerous substances

EU waste code (product container after use)

15 01 04 Metallic packaging

SECTION 14: Transportation information

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ADR/RID: UN1950, AEROSOLS, LIMITED QUANTITY, 2.1, (D), ADR Classification Code: 5F.

IMDG-CODE: UN1950, AEROSOLS, 2.1, LIMITED QUANTITY, EMS: FD,SU.

ICAO/IATA: UN1950, AEROSOLS, FLAMMABLE, 2.1.

SECTION 15: Regulatory information

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

Carcinogenicity

Ingredient

Xylene

CAS Nbr

1330-20-7

Classification

Gr. 3: Not classifiable

Regulation

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

H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.

List of relevant R-phrases

R10	Flammable.
R11	Highly flammable.
R12	Extremely flammable.
R20	Harmful by inhalation.
R21	Harmful in contact with skin.
R36	Irritating to eyes.
R38	Irritating to skin.
R65	Harmful: May cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

Revision information:

Revision Changes:

- Section 8: Eye/face protection information was added.
- Section 8: Respiratory protection - recommended respirators information was added.
- Risk phrase was modified.
- Safety phrase was modified.
- Section 8: Eye/face protection text was added.
- Section 8: Respiratory protection - recommended respirators was added.
- Section 9: pH information was modified.
- Section 2: Symbol was modified.
- Section 16: UK disclaimer was modified.
- Section 1: Product identification numbers was modified.
- Section 9: Evaporation Rate information was modified.
- Section 9: Viscosity information was modified.
- Section 15: Carcinogenicity information was modified.
- Section 16: List of relevant R phrase information was modified.
- Section 3: Composition/ Information of ingredients table was modified.
- Section 9: n-octanol/water coefficient information was modified.
- Section 9: Boiling point information was modified.
- Section 9: Relative density information was modified.
- Section 9: Solubility in water text was modified.
- Section 8: Respiratory protection information was deleted.
- Section 13: EU waste code (product as sold) information was modified.
- Section 12: Acute aquatic hazard information was added.
- Section 12: Chronic aquatic hazard heading was added.
- Section 12: Acute aquatic hazard heading was added.
- Section 12: Chronic aquatic hazard information was added.
- Section 13: EU waste code (product container after use) information was modified.
- Copyright was modified.
- Section 9: Flash point information was modified.

Section 9: Melting point information was modified.
Section 9: Flammable limits (LEL) information was modified.
Section 9: Flammable limits (UEL) information was modified.
Section 9: Vapour density value was modified.
Section 9: Vapour pressure value was modified.
Section 9: Property description for optional properties was modified.
Section 2: Additional label requirements phrase was modified.
Section 8: Occupational exposure limit table was modified.
Section 8: mg/m³ key was modified.
Aspiration Hazard Table was modified.
Section 11: Acute Toxicity table was modified.
Carcinogenicity Table was modified.
Serious Eye Damage/Irritation Table was modified.
Germ Cell Mutagenicity Table was modified.
Skin Sensitisation Table was modified.
Respiratory Sensitisation Table was modified.
Lactation Table was modified.
Reproductive Toxicity Table was modified.
Skin Corrosion/Irritation Table was modified.
Target Organs - Repeated Table was modified.
Target Organs - Single Table was modified.
Section 11: Health Effects - Skin information was modified.
Section 11: Health Effects - Inhalation information was modified.
Section 11: Health Effects - Ingestion information was modified.
Section 11: Health Effects - Other information was modified.
Section 6: Accidental release personal information was modified.
Section 6: Accidental release environmental information was modified.
Section 6: Accidental release clean-up information was modified.
Section 7: Precautions safe handling information was modified.
Section 7: Conditions safe storage was modified.
Section 8: Personal Protection - Respiratory Information was added.
Section 10: Hazardous decomposition or by-products table was modified.
Section 13: Standard Phrase Category Waste GHS was modified.
Two-column table displaying the unique list of H Codes and statements (std phrases) for all components of the given material. was modified.
Section 9: Autoignition temperature information was added.

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.

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