

# **Safety Data Sheet**

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This Safety Data Sheet has been prepared in accordance with the New Zealand, Hazardous Substances (Safety Data Sheets) Notice 2017.

# **SECTION 1: Identification**

### 1.1. Product identifier

3M<sup>™</sup> Plastic and Emblem Adhesive - Clear, PN 08061

#### **Product Identification Numbers**

60-4550-5499-3

#### 1.2. Recommended use and restrictions on use

#### Recommended use

Adhesive, Clear Adhesive for Plastic Repair and Emblem Application

For Industrial or Professional use only

# 1.3. Supplier's details

Address: 3M New Zealand Ltd, 94 Apollo Drive, Rosedale 0632, Auckland

**Telephone:** (09) 477 4040

**E Mail:** innovation@nz.mmm.com

Website: 3m.co.nz

# 1.4. Emergency telephone number

24 hr Medical Emergency, National Poisons Centre, 0800 764 766 (0800 POISON)

# **SECTION 2: Hazard identification**

Classified as hazardous in accordance with the relevant criteria of the HSNO Act 1996, the Hazardous Substances (Classification) Notice 2017 and Hazardous Substances (Minimum Degrees of Hazard) Notice 2017. Refer to Section 14 of this Safety Data Sheet for product Dangerous Goods Classification.

### 2.1. Classification of the substance or mixture

GHS	HSNO			
Flammable Liquid: Category 2	3.1B Flammable Liquid			
Acute Toxicity (oral): Category 5	6.1E Acute toxicity (oral)			
Acute Toxicity (inhalation): Category 5	6.1E Acute toxicity (inhalation)			
Serious Eye Damage/Irritation: Category 2	6.4A Irritating to the eye			

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Skin Sensitiser: Category 1	6.5B Skin sensitiser
Specific Target Organ Toxicity (single exposure):	6.9B Narcotic effects
Category 3	

# 2.2. Label elements SIGNAL WORD

DANGER!

**Symbols:** 

Flame | Exclamation mark |







# **HAZARD STATEMENTS:**

H225 Highly flammable liquid and vapour.

H303
H333
H319
H317
H317
H316
May be harmful if inhaled.
Causes serious eye irritation.
H317
May cause an allergic skin reaction.
H336
May cause drowsiness or dizziness.

### PRECAUTIONARY STATEMENTS

**Prevention:** 

P210A Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P240B Ground and bond container and receiving equipment.

P242A Use non-sparking tools.
P233 Keep container tightly closed.

P243A Take action to prevent static discharges.

P241 Use explosion-proof electrical/ventilating/lighting equipment.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P271 Use only outdoors or in a well-ventilated area.

P280A Wear eye/face protection.

P280B Wear protective gloves and eye/face protection.

P280E Wear protective gloves.

P264B Wash exposed skin thoroughly after handling.

P272A Contaminated work clothing must not be allowed out of the workplace.

**Response:** 

P304 + P312 IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention. P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P321 Specific treatment (see Notes to Physician on this label).

P312 Call a POISON CENTRE or doctor/physician if you feel unwell.

P370 + P378G In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry

chemical or carbon dioxide to extinguish.

P303 + P361 + P353A IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin

with water or shower.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Disposal:

P501 Dispose of contents/container in accordance with applicable

local/regional/national/international regulations.

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

Ingredient	CAS Nbr	% by Weight
Butanone	78-93-3	30 - 60
Vinyl Chloride, Vinyl Acetate, Maleic Acid Polymer	32650-26-3	15 - 40

# **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.

A product risk assessment is recommended to determine if eye wash facilities may be required when using this product in the workplace.

### 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. Suitable extinguishing media

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

# 5.2. Special hazards arising from the substance or mixture

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

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

Substance

Carbon monoxide. Carbon dioxide.

### Condition

During combustion.

During combustion.

### 5.3. Special protective actions 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. Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

**5.4. Hazchem code:** -3YE

# **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors 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. 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 physical, health, or environmental hazard. Collect as much of the spilled material as possible using non-sparking tools. Place in a metal 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 in accordance with applicable local/regional/national/international regulations.

# **SECTION 7: Handling and storage**

Refer to Section 15 - Controls for more information

# 7.1. Precautions for safe handling

Do not use in a confined area with minimal air exchange. Keep out of reach of children. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. 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.) Wear low static or properly grounded shoes. To minimize the risk of ignition, determine applicable electrical classifications for the process using this product and select specific local exhaust ventilation equipment to avoid flammable vapor accumulation. Ground/bond container and receiving equipment if there is potential for static electricity accumulation during transfer.

# 7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store away from heat. Store away from acids. Store away from oxidising agents.

#### 7.3. Certified handler

Not required

# **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 Butanone 78-93-3 **ACGIH** TWA:200 ppm;STEL:300 ppm Butanone 78-93-3 TWA(8 hours): 445 mg/m3 New Zealand WES (150 ppm); STEL(15 minutes): 890 mg/m3 (300 ppm)

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CMRG: Chemical Manufacturer's Recommended Guidelines New Zealand WES: New Zealand Workplace Exposure Standards.

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

ppm: parts per million

mg/m3: milligrams per cubic metre

CEIL: Ceiling

### 8.2. Exposure controls

### 8.2.1. Engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapours/spray. If ventilation is not adequate, use respiratory protection equipment. Use explosion-proof ventilation 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.

Refer AS/NZS 1336 - Recommended practices for occupational eye protection and for performance specifications AS/NZS 1337, Parts 1 - 6 - Personal eye-protection.

### 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: Butyl rubber.

Polymer laminate

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

### Respiratory protection

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

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

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

Refer AS/NZS 1715 - Selection, use and maintenance of respiratory protective equipment and AS/NZS 1716 - Respiratory protective devices.

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

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

Physical stateLiquid.ColourColourlessOdourKetones.

Odour thresholdNo data available.pHNo data available.Melting point/Freezing pointNo data available.

**Boiling point/Initial boiling point/Boiling range** 80 °C [Details: CONDITIONS: (MEK)]

Flash point -6.7 °C [Test Method: Tagliabue closed cup]

[Details: CONDITIONS: (methyl ethyl ketone)]

**Evaporation rate** 2.7 [Ref Std:WATER=1]

Flammability (solid, gas)

Flammable Limits(LEL)

Flammable Limits(UEL)

Not applicable.

1.8 % volume

10 % volume

Vapour pressure 12,132.3 Pa [Details: CONDITIONS: @ 68F]

Vapour density 2.41 [Ref Std: AIR=1]

**Density** 0.95 g/ml

**Relative density** 0.95 [Ref Std: WATER=1]

Water solubility Slight (less than 10%) [Details: Very slight]

Solubility- non-waterNo data available.Partition coefficient: n-octanol/waterNo data available.Autoignition temperature404 °C [Details: MEK]Decomposition temperatureNo data available.Viscosity± 8,500 mPa-s

**Volatile organic compounds (VOC)**552 g/l [Test Method:calculated SCAQMD rule 443.1] **Volatile organic compounds (VOC)**558.1 % weight [Test Method:calculated per CARB title 2]

Percent volatile 58.1 % weight

VOC less H2O & exempt solvents 552 g/l [Test Method:calculated SCAQMD rule 443.1]

# **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

Sparks and/or flames.

Heat.

# 10.5 Incompatible materials

Not determined

# 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

May be harmful if inhaled. Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. May cause additional health effects (see below).

#### Skin contact

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

### Eve 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. May cause additional health effects (see below).

# **Additional Health Effects:**

# Single exposure may cause target organ effects:

Central nervous system (CNS) depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

### **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	Inhalation-		No data available; calculated ATE20 - 50 mg/l
	Vapor(4 hr)		
Overall product	Ingestion		No data available; calculated ATE2,000 - 5,000 mg/kg
Butanone	Dermal	Rabbit	LD50 > 8,050 mg/kg
Butanone	Inhalation-	Rat	LC50 34.5 mg/l
	Vapor (4		
	hours)		
Butanone	Ingestion	Rat	LD50 2,737 mg/kg

ATE = acute toxicity estimate

### Skin Corrosion/Irritation

Name	Species	Value
Butanone	Rabbit	Minimal irritation

**Serious Eye Damage/Irritation** 

Na	ime	Species	Value
Bu	tanone	Rabbit	Severe irritant

### **Skin Sensitisation**

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

# **Respiratory Sensitisation**

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

**Germ Cell Mutagenicity** 

Name	Route	Value
Butanone	In Vitro	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
Butanone	Inhalation	Human	Not carcinogenic

# **Reproductive Toxicity**

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
Butanone	Inhalation	Not classified for development	Rat	LOAEL 8.8 mg/l	during gestation

# Target Organ(s)

Specific Target Organ Toxicity - single exposure

Specific Target Organ	TOXICITY - S					
Name	Route	Target Organ(s)	Value	Species	Test result	Exposure
				_		Duration
Butanone	Inhalation	central nervous	May cause drowsiness or	official	NOAEL Not	
		system depression	dizziness	classifica	available	
				tion		
Butanone	Inhalation	respiratory irritation	Some positive data exist, but the	Human	NOAEL Not	
			data are not sufficient for		available	
			classification			
Butanone	Ingestion	central nervous	May cause drowsiness or	Professio	NOAEL Not	
		system depression	dizziness	nal	available	

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				judgeme		
				nt		
Butanone	Ingestion	liver	Not classified	Rat	NOAEL Not	not applicable
					available	
Butanone	Ingestion	kidney and/or	Not classified	Rat	LOAEL	not applicable
		bladder			1,080 mg/kg	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Butanone	Dermal	nervous system	Not classified	Guinea pig	NOAEL Not available	31 weeks
Butanone	Inhalation	liver   kidney and/or bladder   heart   endocrine system   gastrointestinal tract   bone, teeth, nails, and/or hair   hematopoietic system   immune system   muscles	Not classified	Rat	NOAEL 14.7 mg/l	90 days
Butanone	Ingestion	liver	Not classified	Rat	NOAEL Not available	7 days
Butanone	Ingestion	nervous system	Not classified	Rat	NOAEL 173 mg/kg/day	90 days

### **Aspiration Hazard**

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

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

# **SECTION 12: Ecological information**

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for 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 Number	Organism	Type	Exposure	Test endpoint	Test result
Butanone	78-93-3	Water flea	Experimental	48 hours	EC50	308 mg/l
Butanone	78-93-3	Fathead minnow	Experimental	96 hours	LC50	2,993 mg/l
Butanone	78-93-3	Green algae	Experimental	96 hours	EC50	2,029 mg/l
Butanone	78-93-3	Water flea	Experimental	21 days	NOEC	100 mg/l
Butanone	78-93-3	Green Algae	Experimental	96 hours	Effect Concentration 10%	1,289 mg/l
Vinyl Chloride, Vinyl Acetate, Maleic Acid Polymer	32650-26-3		Data not available or insufficient for classification			

# 12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Butanone	78-93-3	Experimental	28 days	BOD	98 %	OECD 301D - Closed
		Biodegradation	-		BOD/ThBOD	bottle test
Vinyl Chloride,	32650-26-3	Data not			N/A	
Vinyl Acetate,		availbl-				
Maleic Acid		insufficient				
Polymer						

### 12.3: Bioaccumulative potential

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Butanone	78-93-3	Experimental		Log Kow	0.29	Other methods
		Bioconcentrati				
		on				
Vinyl Chloride,	32650-26-3	Data not	N/A	N/A	N/A	N/A
Vinyl Acetate,		available or				
Maleic Acid		insufficient for				
Polymer		classification				

### 12.4. Mobility in soil

Please contact manufacturer for more details

### 12.5 Other adverse effects

No information available.

# **SECTION 13: Disposal considerations**

### 13.1. Disposal methods

In accordance with the Hazardous Substances (Disposal) Notice 2017 and the relevant criteria of the HSNO Act 1996.

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

Packaging (that may or may not contain any residual substance) may be lawfully disposed of by householders or other consumers through public or commercial waste collection services.

# **SECTION 14: Transport Information**

New Zealand Land Transport Rule: Dangerous Goods - Road/Rail Transport

**UN No.:** UN1133

Proper Shipping Name: Adhesives

Class/Division: 3

**Sub Risk:** Not applicable. **Packing Group:** II

Special Instructions: Limited quantity may apply

**Hazchem Code: -3YE** 

**IERG:** 14

International Air Transport Association (IATA) - Air Transport

**UN No.:** UN1133

Proper Shipping Name: Adhesives

Class/Division: 3

**Sub Risk:** Not applicable. **Packing Group:** II

International Maritime Dangerous Goods Code (IMDG) - Marine Transport

UN No.: UN1133

Proper Shipping Name: Adhesives

Class/Division: 3
Sub Risk: Not appl

**Sub Risk:** Not applicable. **Packing Group:** II

**Marine Pollutant:** Not applicable. Limited quantity may apply

# **SECTION 15: Regulatory information**

HSNO Approval number HSR002662

Group standard name Surface Coatings and Colourants (Flammable) Group Standard 2017

HSNO Hazard classification Refer to Section 2: Hazard identification

### NZ Inventory of Chemicals (NZIoC) Status

All applicable chemical ingredients in this material are in compliance with NZIoC listing requirements.

### Controls in accordance with the Health and Safety at Work (Hazardous Substances) Regulations 2017

Certified handler Not required

Location Compliance Certificate 100 L (closed containers greater than 5 L) 250 L (closed containers up to and

including 5 L) 50 L (open containers)

Hazardous atmosphere zone 100 L (closed containers) 25 L (decanting) 5 L (open occasionally) 1 L

(open containers in continuous use)

Fire extinguishers

Two required for 250 L

Emergency response plan 100 L (for a HSNO 9.1A substance) or 1,000 L (for all other substances) Secondary containment 100 L (for a HSNO 9.1A substance) or 1,000 L (for all other substances)

Tracking Not required

Warning signage 100 L (for a HSNO 9.1A substance), or 250 L (for all other substances)

# **SECTION 16: Other information**

### **Revision information:**

Complete document review.

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# Key to abbreviations and acronyms

GHS means the Globally Harmonised System of Classification and Labelling of Chemicals, 5th revised edition 2013 HSNO means Hazardous Substances and New Organisms Act 1996

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