

Safety Data Sheet

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 Document group:
 11-3432-9
 Version number:
 11.00

 Revision date:
 15/04/2020
 Supersedes date:
 15/03/2019

Transportation version number: 1.00 (17/06/2011)

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™ Hot Melt Adhesive 3792LM AE, 3792LM B, 3792LM PG, 3792LM Q, 3792LM TC

Product Identification Numbers

62-3760-9132-8 62-3760-9330-8 62-3760-9335-7

7000000880 7100020424 7000000881

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:

This material is not classified as hazardous according to Regulation (EC) No. 1272/2008, as amended, on classification, labelling, and packaging of substances and mixtures.

2.2. Label elements

CLP REGULATION (EC) No 1272/2008

Not applicable

SUPPLEMENTAL INFORMATION:

Supplemental Hazard Statements:

EUH210 Safety data sheet available on request.

2.3. Other hazards

May cause thermal burns.

SECTION 3: Composition/information on ingredients

Ingredient	CAS Nbr	EC No.	REACH Registration No.	% by W	't	Classification
Ethylene-Vinyl Acetate Polymer	Mixture			20 -	70	Substance not classified as hazardous
Hydrocarbons, C6-20, polymers, hydrogenated	69430-35-9			10 -	20	Substance not classified as hazardous
Hydrocarbon resin	Mixture			10 -	20	Substance not classified as hazardous
vinyl acetate	108-05-4	203-545-4		< 1		Flam. Liq. 2, H225; Acute Tox. 4, H332; Carc. 2, H351; STOT SE 3, H335 - Nota D Aquatic Chronic 3, H412

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

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 flush skin with large amounts of cold water for at least 15 minutes. DO NOT ATTEMPT TO REMOVE MOLTEN MATERIAL. Cover affected area with a clean dressing. Get immediate medical attention.

Eye contact

Immediately flush eyes with large amounts of water for at least 15 minutes. DO NOT ATTEMPT TO REMOVE MOLTEN MATERIAL. Get immediate medical attention.

If swallowed

Rinse mouth. If you are concerned, get medical advice.

4.2. Most important symptoms and effects, both acute and delayed

See Section 11.1 Information on toxicological effects

4.3. Indication of any immediate medical attention and special treatment required

Not applicable

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

Hazardous Decomposition or By-Products

Substance

Carbon monoxide Carbon dioxide.

Condition

During combustion.

During combustion.

5.3. Advice for fire-fighters

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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. 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.

6.3. Methods and material for containment and cleaning up

Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. 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 skin contact with hot material. 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. 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 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

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

vinyl acetate 108-05-4 UK HSC TWA:17.6 mg/m3(5

ppm);STEL:35.2 mg/m3(10

ppm)

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.

Recommended monitoring procedures:Information on recommended monitoring procedures can be obtained from UK HSC

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:

Full face shield.

Indirect vented goggles.

Applicable Norms/Standards

Use eye/face protection conforming to EN 166

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
Polymer laminate	>.3	> 8 hours
Butyl rubber	>.3	1-4 hours

The glove data presented are based on the substance driving dermal toxicity and the conditions present at the time of testing. Breakthrough time may be altered when the glove is subjected to use conditions that place additional stress on the glove.

Applicable Norms/Standards Use gloves tested to EN 374

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 – Butyl rubber Apron – polymer laminate

Respiratory protection

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

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

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

Applicable Norms/Standards

Use a respirator conforming to EN 140 or EN 136: filter types A & P

Thermal hazards

Wear heat insulating gloves when handling hot material to prevent thermal burns.

Applicable Norms/Standards Use gloves tested to EN 407

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical stateSolid.ColourColourless

Specific Physical Form: Waxy Solid **Odor** Odourless

Odour thresholdNo data available.pHNot applicable.Boiling point/boiling rangeNot applicable.Melting pointNo data available.Flammability (solid gas)Not alossified.

Flammability (solid, gas)Not classifiedExplosive propertiesNot classifiedOxidising propertiesNot classified

Flash point >=232.2 °C [Test Method:Cleveland Open Cup]

[Details: Conditions: ASTM D-92-72]

Autoignition temperature

Flammable Limits(LEL)

Flammable Limits(UEL)

Not applicable.

Not applicable.

Relative density 1.01 [*Ref Std*:WATER=1]

Water solubility Nil

Solubility- non-waterNo data available.Partition coefficient: n-octanol/waterNo data available.Evaporation rateNot applicable.

Vapour density Nil

Decomposition temperatureNo data available.ViscosityNot applicable.Density1.01 g/cm3

9.2. Other information

EU Volatile Organic CompoundsNo data available.Molecular weightNo data available.Percent volatile0 % weightSolids content100 %

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

Substance

Condition

None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

The information below may not agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 11 are based on UN GHS calculation rules and classifications derived from 3M assessments.

11.1 Information on Toxicological effects

Signs and Symptoms of Exposure

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

Inhalation

May cause additional health effects (see below).

Skin contact

During heating:

Thermal burns: Signs/symptoms may include intense pain, redness and swelling, and tissue destruction.

Eve contact

During heating:

Thermal burns: Signs/symptoms may include severe pain, redness and swelling, and tissue destruction.

Ingestion

May cause additional health effects (see below).

Additional Health Effects:

Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

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
Ethylene-Vinyl Acetate Polymer	Dermal		LD50 estimated to be > 5,000 mg/kg
Ethylene-Vinyl Acetate Polymer	Ingestion	Rat	LD50 > 1,000 mg/kg
Hydrocarbon resin	Dermal		LD50 estimated to be > 5,000 mg/kg
Hydrocarbon resin	Ingestion		LD50 estimated to be > 5,000 mg/kg
Hydrocarbons, C6-20, polymers, hydrogenated	Dermal	Rat	LD50 > 2,000 mg/kg
Hydrocarbons, C6-20, polymers, hydrogenated	Ingestion	Rat	LD50 > 5,000 mg/kg
vinyl acetate	Dermal	Rabbit	LD50 2,320 mg/kg
vinyl acetate	Inhalation-	Rat	LC50 11.3 mg/l
	Vapour (4		
	hours)		
vinyl acetate	Ingestion	Rat	LD50 2,920 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Ethylene-Vinyl Acetate Polymer	Professio nal judgemen t	No significant irritation
Hydrocarbon resin	Professio nal judgemen t	No significant irritation
vinyl acetate	Rabbit	Minimal irritation

Serious Eye Damage/Irritation

Name	Species	Value
Ethylene-Vinyl Acetate Polymer	Professio nal judgemen t	No significant irritation
Hydrocarbon resin	Professio nal judgemen t	No significant irritation
vinyl acetate	Rabbit	Mild irritant

Skin Sensitisation

Name	Species	Value
vinyl acetate	Guinea pig	Not classified

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
vinyl acetate	In Vitro	Some positive data exist, but the data are not

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		sufficient for classification
vinyl acetate	In vivo	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
vinyl acetate	Ingestion	Multiple animal	Carcinogenic.
		species	
vinyl acetate	Inhalation	Rat	Carcinogenic.

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
vinyl acetate	Ingestion	Not classified for female reproduction	Rat	NOAEL 140 mg/kg/day	2 generation
vinyl acetate	Ingestion	Not classified for male reproduction	Rat	NOAEL 140 mg/kg/day	2 generation
vinyl acetate	Ingestion	Not classified for development	Rat	NOAEL 700 mg/kg/day	2 generation
vinyl acetate	Inhalation	Not classified for development	Rat	NOAEL 0.7 mg/l	during organogenesis

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
vinyl acetate	Inhalation	respiratory irritation	May cause respiratory irritation	Human and animal	NOAEL Not available	
vinyl acetate	Inhalation	central nervous system depression	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
Ethylene-Vinyl Acetate Polymer	Ingestion	liver	Not classified	Rat	NOAEL 4,000 mg/kg/day	90 days
vinyl acetate	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL 0.2 mg/l	104 weeks
vinyl acetate	Inhalation	heart hematopoietic system liver kidney and/or bladder	Not classified	Rat	NOAEL 2.1 mg/l	104 weeks
vinyl acetate	Inhalation	endocrine system	Not classified	Rat	NOAEL 0.07 mg/l	120 days
vinyl acetate	Inhalation	immune system	Not classified	Multiple animal species	NOAEL 3.5 mg/l	3 months
vinyl acetate	Inhalation	nervous system	Not classified	Multiple animal species	NOAEL 2.1 mg/l	104 weeks
vinyl acetate	Inhalation	gastrointestinal tract	Not classified	Mouse	NOAEL 3.5 mg/l	3 months
vinyl acetate	Ingestion	liver	Not classified	Rat	LOAEL 684 mg/kg/day	3 months
vinyl acetate	Ingestion	hematopoietic system nervous	Not classified	Rat	NOAEL 235 mg/kg/day	104 weeks

		system kidney and/or bladder				
vinyl acetate	Ingestion	immune system	Not classified	Mouse	NOAEL 950	3 months
		respiratory system			mg/kg/day	
vinyl acetate	Ingestion	heart	Not classified	Rat	NOAEL 235	104 weeks
					mg/kg/day	

Aspiration Hazard

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

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

SECTION 12: Ecological information

The information below may not agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 12 are based on UN GHS calculation rules and classifications derived from 3M assessments.

12.1. Toxicity

No product test data available.

Material	CAS#	Organism	Type	Exposure	Test endpoint	Test result
Ethylene-Vinyl Acetate Polymer	Mixture		Data not available or insufficient for classification			
Hydrocarbons, C6-20, polymers, hydrogenated	69430-35-9		Data not available or insufficient for classification			
Hydrocarbon resin	Mixture		Data not available or insufficient for classification			
vinyl acetate	108-05-4	Green Algae	Experimental	72 hours	EC50	8.9 mg/l
vinyl acetate	108-05-4	Ricefish	Experimental	96 hours	LC50	2.4 mg/l
vinyl acetate	108-05-4	Water flea	Experimental	48 hours	EC50	9.2 mg/l
vinyl acetate	108-05-4	Fathead minnow	Experimental	34 days	NOEC	0.551 mg/l
vinyl acetate	108-05-4	Green Algae	Experimental	72 hours	NOEC	0.2 mg/l
vinyl acetate	108-05-4	Water flea	Experimental	21 days	NOEC	0.32 mg/l

12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Ethylene-Vinyl Acetate Polymer	Mixture	Data not availbl- insufficient			N/A	
Hydrocarbons, C6-20, polymers, hydrogenated	69430-35-9	Data not availbl- insufficient			N/A	
Hydrocarbon resin	Mixture	Estimated Biodegradation	28 days	BOD	0 % BOD/ThBOD	Other methods
vinyl acetate	108-05-4	Experimental Biodegradation	14 days	BOD	90 % BOD/ThBOD	OECD 301C - MITI test (I)

12.3: Bioaccumulative potential

Material	Cas No.	Test type	Duration	Study Type	Test result	Protocol
Ethylene-Vinyl Acetate Polymer	Mixture	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Hydrocarbons, C6-20, polymers, hydrogenated	69430-35-9	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Hydrocarbon resin	Mixture	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
vinyl acetate	108-05-4	Experimental Bioconcentration		Log Kow	0.73	Other methods

12.4. Mobility in soil

Please contact manufacturer for more details

12.5. Results of the PBT and vPvB assessment

This material does not contain any substances that are assessed to be a PBT or vPvB

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.

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate 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 10 Waste adhesives and sealants other than those mentioned in 08 04 09 20 01 28 Paint, inks, adhesives and resins other than those mentioned in 20 01 27

SECTION 14: Transportation information

62-3760-9132-8, 62-3760-9330-8, 62-3760-9335-7

Not hazardous for transportation

SECTION 15: Regulatory information

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

Carcinogenicity

<u>Ingredient</u> <u>CAS Nbr</u> <u>Classification</u> <u>Regulation</u>

vi	nyl acetate	108-05-4	Carc. 2	Regulation (EC) No.
				1272/2008, Table 3.1
vi	nyl acetate	108-05-4	Grp. 2B: Possible human	International Agency
			carc.	for Research on Cancer

15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out for this mixture. Chemical safety assessments for the contained substances may have been carried out by the registrants of the substances in accordance with Regulation (EC) No 1907/2006, as amended.

SECTION 16: Other information

List of relevant H statements

11223	riigiliy namnaole nquid and vapour.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H412	Harmful to aquatic life with long lasting effects.

Highly flammable liquid and vanour

Revision information:

11225

Section 1: Product identification numbers information was modified.

Section 1: Product use information information was modified.

Section 01: SAP Material Numbers information was modified.

Label: CLP Supplemental Hazard Statements information was added.

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

Section 4: First aid for ingestion (swallowing) information information was modified.

Section 5: Fire - Advice for fire fighters information information was modified.

Section 5: Hazardous combustion products table information was modified. Section 6: Accidental release personal information information was modified.

Section 6. Accidental release personal information information was mounted

Section 7: Precautions safe handling information information was modified.

Section 8: Appropriate Engineering controls information information was modified.

Section 8: glove data value information was added.

Section 8: Occupational exposure limit table information was added.

Section 8: Occupational exposure limit table information was modified.

OEL Reg Agency Desc information was added.

Section 8: Personal Protection - Respiratory Information information was added.

Section 8: Personal Protection - Skin/body information information was added.

Section 8: Personal Protection - Skin/hand information information was modified.

Section 8: Respiratory protection - recommended respirators guide information was added.

Section 8: Respiratory protection - recommended respirators information information was added.

Section 8: Respiratory protection information information was deleted.

Section 8: Skin protection - protective clothing information information was added.

Section 8: Skin protection - recommended gloves text information was added.

Section 8: STEL key information was added.

Section 8: TWA key information was added.

Section 09: Color information was added.

Section 09: Odor information was added.

Sections 3 and 9: Odour, colour, grade information information was deleted.

Section 9: Vapour pressure value information was deleted.

Section 11: Acute Toxicity table information was modified.

Section 11: Cancer Hazards information information was added.

Section 11: Carcinogenicity Table information was added.

Section 11: Carcinogenicity text information was deleted.

Section 11: Germ Cell Mutagenicity Table information was added.

Section 11: Germ Cell Mutagenicity text information was deleted.

Section 11: Health Effects - Ingestion information information was modified.

Section 11: Health Effects - Inhalation information information was modified.

Section 11: Reproductive Toxicity Table information was added.

Section 11: Serious Eye Damage/Irritation Table information was modified.

Section 11: Skin Corrosion/Irritation Table information was modified.

Section 11: Skin Sensitization Table information was added.

Section 11: Skin Sensitization text information was deleted.

Section 11: Specific Target Organ Toxicity - single exposure text information was deleted.

Section 11: Target Organs - Repeated Table information was modified.

Section 11: Target Organs - Single Table information was added.

Section 12: Component ecotoxicity information information was modified.

Section 12: Persistence and Degradability information information was modified.

Section 12:Bioccumulative potential information information was modified.

Section 13: Standard Phrase Category Waste GHS information was modified.

Section 15: Carcinogenicity information information was added.

Section 15: Regulations - Inventories information was deleted.

Two-column table displaying the unique list of H Codes and statements (std phrases) for all components of the given material. information was added.

Sectio 16: UK disclaimer 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. In addition, this SDS is being provided to convey health and safety information. If you are the importer of record of this product into the European Union, you are responsible for all regulatory requirements, including, but not limited to, product registrations/notifications, substance volume tracking, and potential substance registration.

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