

Revision Date 16-Jul-2024

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: US OSHA Hazard Communication Standard (29 CFR 1910.1200)

Version 11

1. IDENTIFICATION

Product identifier Product Name

84115 5 MINUTE PLASTIC WELD (ADHESIVE)

Other means of identificationProduct CodeR478ADH2

Recommended use of the chemical and restrictions on useRecommended UseAdhesiveUses advised againstNo information available

Details of the supplier of the safety data sheet

Manufacturer Address ITW Permatex, Inc. 6875 Parkland Blvd. Solon, Ohio 44139 USA Telephone: 1-87-Permatex (866) 732-9502 May Also Be Distributed by: **ITW Permatex Canada** 101-2360 Bristol Circle Oakville, ON Canada L6H 6M5 Telephone: (800) 924-6994 **Company Phone Number** 866-732-9502 24-hour emergency phone number Chem-Tel: 800-255-3924 International Emergency: 00+1+ 813-248-0585 Contract Number: MIS0003453

E-mail address: mail@permatex.com

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Dermal	Category 4	
Acute toxicity - Inhalation (Vapors)	Category 4	
Skin corrosion/irritation	Category 1 Sub-category A	
Serious eye damage/eye irritation	Category 1	
Skin sensitization	Category 1	
Carcinogenicity	Category 1B	
Specific target organ toxicity (single exposure)	Category 3	
Specific target organ toxicity (repeated exposure)	Category 2	
Flammable liquids	Category 2	

Label elements



Precautionary Statements - Storage

Store locked up Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Other Information

May be harmful if swallowed. May be harmful in contact with skin. Harmful to aquatic life with long lasting effects. Harmful to aquatic life.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Weight-%
METHYL METHACRYLATE	80-62-6	50 - <100%
CHLOROSULFONATED POLYETHYLENE	68037-39-8	25 - <50%
METHACRYLIC ACID	79-41-4	5 - <10%
DIMETHYLBENZYL HYDROPEROXIDE	80-15-9	1 - 5%
TALC	14807-96-6	0.1 - <0.5%
CUMENE	98-82-8	0.1 - <0.5%
HYDROQUINONE	123-31-9	0.1 - <0.5%

4. FIRST AID MEASURES

Description of first aid measures	
General advice	Call 911 or emergency medical service. Remove and isolate contaminated clothing and shoes.
Eye contact	In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
Skin contact	Wash skin with soap and water.
Inhalation	Move victim to fresh air. If breathing is irregular or stopped, administer artificial respiration. Administer oxygen if breathing is difficult.
Ingestion	IF SWALLOWED:. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician.
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Most important symptoms and effe	ects, both acute and delayed
Symptoms	May cause allergic skin reaction.
Indication of any immediate medic	al attention and special treatment needed
Note to physicians	Keep victim warm and quiet.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Dry chemical, CO2, water spray or regular foam, Water spray, fog or regular foam, Use water spray or fog; do not use straight streams

Unsuitable extinguishing media

CAUTION: All these products have a very low flash point. Use of water spray when fighting fire may be inefficient

Specific hazards arising from the chemical

Vapors may travel to source of ignition and flash back. Vapors may form explosive mixtures with air. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors or in sewers. Those substances designated with a "P" may polymerize explosively when heated or involved in a fire. Runoff to sewer may create fire or explosion hazard. Substance may be transported hot.

Explosion data

Sensitivity to Mechanical Impact	None.
Sensitivity to Static Discharge	None.

Protective equipment and precautions for firefighters

Move containers from fire area if you can do it without risk.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Stop leak if you can do it without risk.
Other Information	Water spray may reduce vapor; but may not prevent ignition in closed spaces.
Environmental precautions	
Environmental precautions	Prevent entry into waterways, sewers, basements or confined areas. See section 12 for additional ecological information.
Methods and material for containme	ent and cleaning up
Methods for containment	A vapor suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
Methods for cleaning up	Use clean non-sparking tools to collect absorbed material. Dike far ahead of liquid spill for later disposal.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.
	7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid breathing vapors or mists. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse. Use personal protective equipment as required. Take precautionary measures against static discharges. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity).

Conditions for safe storage, including any incompatibilities

Storage ConditionsKeep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric
motors and static electricity). Store locked up.

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Incompatible materials
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Strong oxidizing agents, Reducing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
METHYL METHACRYLATE	TWA: 50 ppm	TWA: 100 ppm	IDLH: 1000 ppm
80-62-6	STEL: 100 ppm	TWA: 410 mg/m ³	TWA: 100 ppm
	dermal sensitizer	(vacated) TWA: 100 ppm	TWA: 410 mg/m ³
		(vacated) TWA: 410 mg/m ³	_
METHACRYLIC ACID	TWA: 20 ppm	(vacated) TWA: 20 ppm	TWA: 20 ppm
79-41-4		(vacated) TWA: 70 mg/m ³	TWA: 70 mg/m ³
		(vacated) Sk*	-
TALC	TWA: 2 mg/m ³ particulate matter	TWA: 20 mppcf if 1% Quartz or	IDLH: 1000 mg/m ³
14807-96-6	containing no asbestos and <1%	more, use Quartz limit	TWA: 2 mg/m ³ containing no
	crystalline silica, respirable	(vacated) TWA: 2 mg/m ³ respirable	Asbestos and <1% Quartz
	particulate matter	dust <1% Crystalline silica,	respirable dust
		containing no Asbestos	
		TWA: 20 mppcf if 1% Quartz or	
		more, use Quartz limit	
CUMENE	TWA: 5 ppm	TWA: 50 ppm	IDLH: 900 ppm
98-82-8		TWA: 245 mg/m ³	TWA: 50 ppm
		(vacated) TWA: 50 ppm	TWA: 245 mg/m ³
		(vacated) TWA: 245 mg/m ³	-
		(vacated) Sk*	
		Sk*	
HYDROQUINONE	TWA: 1 mg/m ³	TWA: 2 mg/m ³	IDLH: 50 mg/m ³
123-31-9	dermal sensitizer	(vacated) TWA: 2 mg/m ³	Ceiling: 2 mg/m ³ 15 min

NIOSH IDLH Immediately Dangerous to Life or Health

Appropriate engineering controls

Engineering Controls Showers Eyewash stations Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin and body protection	Wear protective natural rubber, nitrile rubber, Neoprene™ or PVC gloves.
Respiratory protection	Use NIOSH-approved air-purifying respirator with organic vapor cartridge or canister, as appropriate.
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice. Regular cleaning of equipment, work area and clothing is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties		
Physical state	No information available	
Appearance	Off-white	
Odor	Methyl methacrylate	

Odor threshold	0.75 ppm	
Property pH Melting point / freezing point Boiling point / boiling range Flash point Evaporation rate Flammability (solid, gas) Flammability Limit in Air	<u>Values</u> No information available No information available $101 \ ^{\circ}C / 213.8 \ ^{\circ}F$ $12 \ ^{\circ}C / 53.6 \ ^{\circ}F$ > 1 No information available	Remarks • Method
Upper flammability limit: Lower flammability limit: Lower flammability limit: Vapor pressure Vapor density Relative density Water solubility Solubility(ies) Partition coefficient Autoignition temperature Hyphen Kinematic viscosity Dynamic viscosity Explosive properties Oxidizing properties	12.5% 1.6% 28 mmHg @ 68°F >3 0.95 Slightly soluble No information available A21°C (789.8°F) °C / °F No information available No information available No information available No information available No information available No information available No information available	Air = 1
Other information Softening point Molecular weight Density Bulk density SADT (self-accelerating decomposition temperature)	No information available No information available No information available No information available No information available	

10. STABILITY AND REACTIVITY

Reactivity

No information available

Chemical stability Stable under normal conditions

Possibility of hazardous reactions None under normal processing.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials Strong oxidizing agents, Reducing agents

Hazardous decomposition products Carbon oxides Nitrogen oxides (NOx)

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation	May cause irritation of respiratory tract.
Eye contact	Contact with eyes may cause irritation. May cause redness and tearing of the eyes.
Skin contact	May cause skin irritation and/or dermatitis. May cause sensitization by skin contact.
Ingestion	Ingestion may cause irritation to mucous membranes.

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
METHYL METHACRYLATE 80-62-6	8420 - 10000 mg/kg (Rat)	5000 - 7500 mg/kg (Rabbit)	= 29.8 mg/L (Rat)4 h
METHACRYLIC ACID 79-41-4	= 1060 mg/kg (Rat)	500 - 1000 mg/kg (Rabbit)	= 7.1 mg/L (Rat)4 h
DIMETHYLBENZYL HYDROPEROXIDE 80-15-9	= 382 mg/kg (Rat)	= 0.126 mL/kg (Rabbit)	= 220 ppm (Rat)4 h
CUMENE 98-82-8	= 1400 mg/kg (Rat)	= 12300 µL/kg (Rabbit)	> 3577 ppm (Rat)6 h
HYDROQUINONE 123-31-9	= 298 mg/kg (Rat)	= 74800 mg/kg (Rabbit)	-

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization	No information available.				
Germ cell mutagenicity	No information available.				
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.				
Chemical name	ACGIH	IARC	NTP	OSHA	
METHYL METHACRYLATE 80-62-6	-	Group 3	-	-	
TALC 14807-96-6	-	Group 3	-	Х	
CUMENE 98-82-8	A3	Group 2B	Reasonably Anticipated	Х	
HYDROQUINONE 123-31-9	A3	Group 3	-	-	
IARC (International Agency Group 3 - Not classifiable as a Group 2B - Possibly Carcinog NTP (National Toxicology P Reasonably Anticipated - Rea Occupational Safety and He X - Present	a human carcinogen enic to Humans rogram) isonably Anticipated to I alth Administration of	be a Human Carcinogen the US Department of Lal	bor		
Target organ effects	Eves Resni	iratory system, Skin.			

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	3611 mg/kg
ATEmix (dermal)	3450 mg/kg
ATEmix (inhalation-dust/mist)	9.7 mg/l
ATEmix (inhalation-vapor)	10272.6 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Persistence and degradability

No information available.

Bioaccumulation

No information available.

<u>Mobility</u>

No information available.

Chemical name	Partition coefficient
METHYL METHACRYLATE	1.38
80-62-6	
METHACRYLIC ACID	0.93
79-41-4	
DIMETHYLBENZYL HYDROPEROXIDE	1.6
80-15-9	
CUMENE	3.55
98-82-8	
HYDROQUINONE	0.59
123-31-9	

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging	Do not reuse container.
US EPA Waste Number	D001

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical name	California Hazardous Waste Status
METHYL METHACRYLATE	Toxic
80-62-6	Ignitable
DIMETHYLBENZYL HYDROPEROXIDE	Toxic
80-15-9	Ignitable
CUMENE	Toxic
98-82-8	Ignitable

14. TRANSPORT INFORMATION

DOT

UN/ID No	1133
Proper shipping name	Adhesives, Limited Quantity (LQ)
Transport hazard class(es)	3
Packing Group	II
Emergency Response Guide Number	128
IATA UN number or ID number	ID 8000

UN number or ID number	ID 8000
Proper shipping name	Consumer commodity

9 9L
1133 Adhesives, Limited Quantity (LQ) 3 II F-E, S-D

15. REGULATORY INFORMATION

International Inventories	
TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Not determined
IECSC	Complies
KECI	Complies
PICCS	Complies
AICS	Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	SARA 313 - Threshold Values %
METHYL METHACRYLATE - 80-62-6	1.0
DIMETHYLBENZYL HYDROPEROXIDE - 80-15-9	1.0
CUMENE - 98-82-8	0.1
HYDROQUINONE - 123-31-9	1.0
SARA 311/312 Hazard Categories	
Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
METHYL METHACRYLATE 80-62-6	1000 lb	-	-	Х
CERCLA				

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	Reportable Quantity (RQ)
METHYL METHACRYLATE 80-62-6	1000 lb	-	RQ 1000 lb final RQ RQ 454 kg final RQ
DIMETHYLBENZYL HYDROPEROXIDE 80-15-9	10 lb	-	RQ 10 lb final RQ RQ 4.54 kg final RQ
CUMENE 98-82-8	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ
HYDROQUINONE 123-31-9	100 lb	100 lb	RQ 100 lb final RQ RQ 45.4 kg final RQ

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical name	California Proposition 65
CUMENE	Carcinogen
98-82-8	
U.C. State Dight to Know Degulations	

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
METHYL METHACRYLATE	Х	X	Х
80-62-6			
METHACRYLIC ACID	Х	X	Х
79-41-4			
DIMETHYLBENZYL	Х	X	Х
HYDROPEROXIDE			
80-15-9			
BUTYLATED HYDROXY TOLUENE	Х	X	Х
128-37-0			
CUMENE HYDROPEROXIDE	Х	X	Х
80-15-9			
PETROLEUM WAX, UNFINISHED	Х	X	Х
8002-74-2			
TALC	Х	X	Х
14807-96-6			
CUMENE	Х	X	Х
98-82-8			
HYDROQUINONE	Х	X	Х
123-31-9			
Cumene	Х	X	Х
98-82-8			
ACETOPHENONE	Х	X	Х
98-86-2			
Butadiene	Х	X	Х
106-99-0			
ETHYL ACRYLATE	Х	X	Х
140-88-5			

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

WHMIS Hazard Class

B2 - Flammable liquid, D2B - Toxic materials

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION	ON

NFPAHealth hazards2Flammability3HMISHealth hazards2Flammability3	Instability 0 - Physical hazards 0 Personal protection B
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Revision Date

16-Jul-2024

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End of Safety Data Sheet