



SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision Date 03-Feb-2023

Version 14

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Code 47809

Product Name VERSACHEM PLASTIC WELDER (ADHESIVE)

Unique Formula Identifier (UFI) Code 6DYH-Y0KD-D00V-DRT7

Contains METHYL METHACRYLATE, METHACRYLIC ACID, DIMETHYLBENZYL HYDROPEROXIDE

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

Recommended Use Adhesive

Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Manufacturer	Only Representative (OR)
ITW Permatex, Inc. 6875 Parkland Blvd. Solon, Ohio 44139 USA Telephone: 1-87-Permatex (866) 732-9502	ITW Permatex Bay 150 Shannon Industrial Estate Co. Clare Ireland V14 DF82 353(61)771500 353(61)471285 customerservice.shannon@itwpp.com

For further information, please contact

Contact Point ITW Permatex
6875 Parkland Blvd.
Solon, Ohio 44139 USA
Telephone: 1-87-Permatex
(866) 732-9502

E-mail address: mail@permatex.com

1.4. Emergency telephone number

24-hour emergency phone number - §45 - (EC)1272/2008	
Europe	112
Austria	01 406 43 43
Belgium	070 245 245
Denmark	+ 45 8212 1212
Finland	0800 147 111/ 09 471 977
France	+33 (0)1 45 42 59 59
Germany	112 / 16117
Ireland	01 809 2166

Italy	0382-24444
Netherlands	+31 (0)88 755 8000
Norway	22 59 13 00
Poland	112
Portugal	+351 800 250 250
Slovenia	112
Spain	+34 91 562 04 20
Sweden	112
Switzerland	145
United Kingdom	111
Bulgaria	+359 2 9154 233
Croatia	+3851 2348 342
Cyprus	1401
Czech Republic	+420 224 919 293/ +420 224 915 402
Estonia	16662/ (+372) 7943 794
Greece	(003) 2107793777
Hungary	+36 80 201 199
Iceland	543 2222
Latvia	+371 67042473
Liechtenstein	01 406 43 43
Lithuania	+370 (85) 2362052
Luxembourg	(+352) 8002 5500
Romania	+40213183606
Slovakia	+421 2 5477 4166
Malta	112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Skin corrosion/irritation	Category 1 Sub-category A - (H314)
Serious eye damage/eye irritation	Category 1 - (H318)
Skin sensitization	Category 1 - (H317)
Specific target organ toxicity (single exposure)	Category 3 - (H335,H336)
Category 3 Respiratory irritation	
Chronic aquatic toxicity	Category 3 - (H412)
Flammable liquids	Category 2 - (H225)

2.2. Label elements

Contains METHYL METHACRYLATE, METHACRYLIC ACID, DIMETHYLBENZYL HYDROPEROXIDE



Signal word
Danger

Hazard statements

Hazard statements

H314 - Causes severe skin burns and eye damage
H317 - May cause an allergic skin reaction
H335 - May cause respiratory irritation
H336 - May cause drowsiness or dizziness
H412 - Harmful to aquatic life with long lasting effects
H225 - Highly flammable liquid and vapor

Precautionary Statements - EU (§28, 1272/2008) P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking

P260 - Do not breathe dust/fume/gas/mist/vapors/spray
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a POISON CENTER or doctor
P321 - Specific treatment (see .? on this label)
P370 + P378 - In case of fire: Use dry chemical, CO2, water spray or alcohol-resistant foam to extinguish

2.3. Other hazards

Harmful to aquatic life.

SECTION 3: Composition/information on ingredients

3.1 Substances

Chemical name	Weight-%	REACH registration No.	EC No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
METHYL METHACRYLATE 80-62-6	30 - 60	Registration no. 01-211945249 8-28-XXXX	201-297-1	Skin Irrit. 2 (H315) Skin Sens. 1 (H317) STOT SE 3 (H335) Flam. Liq. 2 (H225)	STOT SE 3 :: C>=10%	-	-
METHACRYLIC ACID 79-41-4	5 - 10	Registration no. 01-211946388 4-26-XXXX	201-204-4	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Skin Corr. 1A (H314)	STOT SE 3 :: C>=1%	-	-
DIMETHYLBENZYL HYDROPEROXIDE 80-15-9	1 - 5		201-254-7	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 3 (H331) Skin Corr. 1B (H314) STOT RE 2 (H373) Aquatic Chronic 2 (H411) Org. Perox. E (H242)	Eye Dam. 1 :: 3%<=C<10% Eye Irrit. 2 :: 1%<=C<3% Skin Corr. 1B :: C>=10% Skin Irrit. 2 :: 3%<=C<10% STOT SE 3 :: C<10%	-	-

Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate
No information available

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapor - mg/L	Inhalation LC50 - 4 hour - gas - ppm
METHYL METHACRYLATE 80-62-6	8420	5000	29.8	No data available	No data available
METHACRYLIC ACID 79-41-4	1060	500	No data available	No data available	No data available
DIMETHYLBENZYL HYDROPEROXIDE 80-15-9	382	133.56	No data available	No data available	No data available

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Remove to fresh air.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.
Ingestion	Rinse mouth.

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

Symptoms	No information available.
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4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	No information available.
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5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation.
For emergency responders	Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions	See Section 12 for additional Ecological Information.
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6.3. Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Take up mechanically, placing in appropriate containers for disposal.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections	See section 8 for more information. See section 13 for more information.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling	Ensure adequate ventilation.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep container tightly closed in a dry and well-ventilated place.
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7.3. Specific end use(s)

Specific use(s)
Adhesive.

Identified uses

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
METHYL METHACRYLATE 80-62-6	TWA: 50 ppm STEL: 100 ppm	TWA: 50 ppm TWA: 210 mg/m ³ STEL 100 ppm STEL 420 mg/m ³	TWA: 50 ppm TWA: 208 mg/m ³ STEL: 100 ppm STEL: 416 mg/m ³	STEL: 100 ppm TWA: 50 ppm	TWA: 50 ppm STEL: 100 ppm K*
METHACRYLIC ACID	-	TWA: 20 ppm	TWA: 20 ppm	TWA: 70.0 mg/m ³	TWA: 20 ppm

79-41-4		TWA: 70 mg/m ³	TWA: 71 mg/m ³		TWA: 72 mg/m ³ STEL: 40 ppm STEL: 143 mg/m ³
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
METHYL METHACRYLATE 80-62-6	STEL: 100 ppm TWA: 50 ppm	TWA: 50 mg/m ³ Ceiling: 150 mg/m ³ * Sensitizer	TWA: 25 ppm TWA: 102 mg/m ³ H*	TWA: 50 ppm STEL: 100 ppm	TWA: 10 ppm TWA: 42 mg/m ³ STEL: 50 ppm STEL: 210 mg/m ³
METHACRYLIC ACID 79-41-4	-	-	TWA: 20 ppm TWA: 70 mg/m ³	TWA: 20 ppm TWA: 70 mg/m ³ STEL: 30 ppm STEL: 100 mg/m ³	TWA: 20 ppm TWA: 71 mg/m ³
Chemical name	France	Germany	Germany MAK	Greece	Hungary
METHYL METHACRYLATE 80-62-6	TWA: 50 ppm TWA: 205 mg/m ³ STEL: 100 ppm STEL: 410 mg/m ³	TWA: 50 ppm TWA: 210 mg/m ³	TWA: 50 ppm TWA: 210 mg/m ³ Ceiling / Peak: 100 ppm Ceiling / Peak: 420 mg/m ³	TWA: 50 ppm STEL: 100 ppm	TWA: 208 mg/m ³ STEL: 415 mg/m ³ b*
METHACRYLIC ACID 79-41-4	TWA: 20 ppm TWA: 70 mg/m ³	TWA: 50 ppm TWA: 180 mg/m ³	TWA: 50 ppm TWA: 180 mg/m ³ Ceiling / Peak: 100 ppm Ceiling / Peak: 360 mg/m ³	TWA: 20 ppm TWA: 70 mg/m ³ STEL: 40 ppm STEL: 140 mg/m ³	-
Chemical name	Ireland	Italy	Italy REL	Latvia	Lithuania
METHYL METHACRYLATE 80-62-6	TWA: 50 ppm STEL: 100 ppm	TWA: 50 ppm STEL: 100 ppm	TWA: 50 ppm TWA: 205 mg/m ³ STEL: 100 ppm STEL: 410 mg/m ³	TWA: 10 mg/m ³	Sensitizer TWA: 208 mg/m ³ TWA: 50 ppm STEL: 416 mg/m ³ STEL: 100 ppm
METHACRYLIC ACID 79-41-4	TWA: 20 ppm TWA: 70 mg/m ³ STEL: 40 ppm STEL: 140 mg/m ³	-	TWA: 20 ppm TWA: 70 mg/m ³	TWA: 10 mg/m ³	TWA: 20 ppm TWA: 70 mg/m ³ STEL: 30 ppm STEL: 100 mg/m ³
DIMETHYLBENZYL HYDROPEROXIDE 80-15-9	-	-	-	TWA: 1 mg/m ³	* TWA: 1 mg/m ³
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
METHYL METHACRYLATE 80-62-6	STEL: 100 ppm TWA: 50 ppm	STEL: 100 ppm TWA: 50 ppm	TWA: 205 mg/m ³ STEL: 410 mg/m ³	TWA: 25 ppm TWA: 100 mg/m ³ STEL: 100 ppm STEL: 400 mg/m ³	STEL: 300 mg/m ³ TWA: 100 mg/m ³
METHACRYLIC ACID 79-41-4	-	-	-	TWA: 20 ppm TWA: 70 mg/m ³ STEL: 30 ppm STEL: 105 mg/m ³	-
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
METHYL METHACRYLATE 80-62-6	TWA: 50 ppm STEL: 100 ppm	TWA: 50 ppm TWA: 205 mg/m ³ STEL: 100 ppm STEL: 410 mg/m ³	TWA: 50 ppm	TWA: 50 ppm TWA: 210 mg/m ³ 100: STEL ppm 420: STEL mg/m ³	TWA: 50 ppm STEL: 100 ppm
METHACRYLIC ACID 79-41-4	TWA: 20 ppm	TWA: 8.5 ppm TWA: 30 mg/m ³ STEL: 13 ppm STEL: 45 mg/m ³	-	TWA: 180 mg/m ³ TWA: 50 ppm 100: STEL ppm 360: STEL mg/m ³ K*	TWA: 20 ppm TWA: 72 mg/m ³
Chemical name	Sweden		Switzerland		United Kingdom
METHYL METHACRYLATE 80-62-6	NGV: 50 ppm NGV: 200 mg/m ³ Bindande KGV: 100 ppm Bindande KGV: 400 mg/m ³ Sensitizer		TWA: 50 ppm TWA: 210 mg/m ³ STEL: 100 ppm STEL: 420 mg/m ³		TWA: 50 ppm TWA: 208 mg/m ³ STEL: 100 ppm STEL: 416 mg/m ³

METHACRYLIC ACID 79-41-4	NGV: 20 ppm NGV: 70 mg/m ³ Vägledande KGV: 30 ppm Vägledande KGV: 100 mg/m ³	TWA: 50 ppm TWA: 180 mg/m ³ STEL: 100 ppm STEL: 360 mg/m ³	TWA: 20 ppm TWA: 72 mg/m ³ STEL: 40 ppm STEL: 143 mg/m ³
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Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls**Personal protective equipment**

Eye/face protection No special protective equipment required.

Skin and body protection No special protective equipment required.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state No information available
Appearance Off-white
Color No information available
Odor Methyl methacrylate
Odor threshold 0.75 ppm

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Melting point / freezing point	No data available	None known
Boiling point / boiling range	101 °C	
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability limit:	12.5%	
Lower flammability limit:	1.6%	
Flash point	12 °C	
Autoignition temperature	421 °C (789.8 °F) °C	
Decomposition temperature		None known
pH	No data available	None known
pH (as aqueous solution)	No data available	No information available
Kinematic viscosity	No Data Available	None known
Dynamic viscosity	No data available	None known
Water solubility	No data available	Slightly soluble
Solubility(ies)	No Data Available	None known
Partition coefficient	No Data Available	None known
Vapor pressure	28 mmHg @ 68°F	
Relative density	0.95	
Bulk density	No data available	
Density	No data available	

Vapor density	>3	Air = 1
Particle characteristics		
Particle Size	No information available	
Particle Size Distribution	No information available	

9.2. Other information

VOC Content (%) 76

9.2.1. Information with regard to physical hazard classes

Not applicable

9.2.2. Other safety characteristics

No information available > 1 Butyl acetate = 1

SECTION 10: Stability and reactivity**10.1. Reactivity**

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

10.5. Incompatible materials

Incompatible materials None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous Decomposition Products Carbon oxides. Nitrogen oxides (NOx).

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Information on likely routes of exposure****Product Information**

Inhalation Specific test data for the substance or mixture is not available.

Eye contact Specific test data for the substance or mixture is not available.

Skin contact Specific test data for the substance or mixture is not available.

Ingestion Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Numerical measures of toxicity**Acute toxicity**

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

ATEmix (oral)	3,365.60 mg/kg
ATEmix (dermal)	3,351.30 mg/kg
ATEmix (inhalation-dust/mist)	9.398 mg/l

24 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.
 16 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.
 97.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).
 97.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).
 39.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
METHYL METHACRYLATE	8420 - 10000 mg/kg (Rat)	5000 - 7500 mg/kg (Rabbit)	= 29.8 mg/L (Rat) 4 h
METHACRYLIC ACID	= 1060 mg/kg (Rat)	500 - 1000 mg/kg (Rabbit)	= 7.1 mg/L (Rat) 4 h
DIMETHYLBENZYL HYDROPEROXIDE	= 382 mg/kg (Rat)	= 0.126 mL/kg (Rabbit)	= 220 ppm (Rat) 4 h

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

Skin corrosion/irritation No information available.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Aspiration hazard No information available.

11.2. Information on other hazards**11.2.1. Endocrine disrupting properties**

Endocrine disrupting properties No information available.

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity The environmental impact of this product has not been fully investigated.

Unknown aquatic toxicity Contains 0 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
METHYL METHACRYLATE	170: 96 h Pseudokirchneriella subcapitata mg/L EC50	125.5 - 190.7: 96 h Pimephales promelas mg/L LC50 static 153.9 - 341.8: 96 h Lepomis macrochirus mg/L LC50 static 170 - 206: 96 h Lepomis macrochirus mg/L LC50 flow-through 243 - 275: 96 h Pimephales promelas mg/L LC50 flow-through 326.4 - 426.9: 96 h Poecilia reticulata mg/L LC50 static 79: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 79: 96 h Oncorhynchus mykiss mg/L LC50 static	-	69: 48 h Daphnia magna mg/L EC50
METHACRYLIC ACID	-	85: 96 h Oncorhynchus mykiss mg/L LC50 flow-through	-	-
DIMETHYLBENZYL HYDROPEROXIDE	-	3.9: 96 h Oncorhynchus mykiss mg/L LC50 static	-	-

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation No information available.

Chemical name	Partition coefficient
METHYL METHACRYLATE	0.7
METHACRYLIC ACID	0.93

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available.

Chemical name	PBT and vPvB assessment
METHYL METHACRYLATE	The substance is not PBT / vPvB PBT assessment does not apply
METHACRYLIC ACID	The substance is not PBT / vPvB PBT assessment does not apply
DIMETHYLBENZYL HYDROPEROXIDE	The substance is not PBT / vPvB

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

SECTION 14: Transport information**IATA**

14.1 UN number or ID number ID 8000
 14.2 Proper shipping name Consumer commodity
 14.3 Transport hazard class(es) 9
 14.4 Packing group Not regulated
 14.5 Environmental hazard Not applicable
 14.6 Special precautions for user

IMDG

14.1 UN number or ID number 1133
 14.2 Proper shipping name Adhesives Limited Quantity (LQ)
 14.3 Transport hazard class(es) 3
 14.4 Packing Group II
 14.5 Environmental hazard Not applicable
 14.6 Special precautions for user
 14.7 Maritime transport in bulk according to IMO instruments

RID

14.1 UN/ID No 1133
 14.2 Proper shipping name Adhesives Limited Quantity (LQ)
 14.3 Transport hazard class(es) 3
 14.4 Packing Group II
 14.5 Environmental hazard Not applicable
 14.6 Special precautions for user

ADR

14.1 UN number or ID number 1133
 14.2 Proper shipping name Adhesives Limited Quantity (LQ)
 14.3 Transport hazard class(es) 3
 14.4 Packing Group II
 14.5 Environmental hazard Not applicable
 14.6 Special precautions for user
 Classification code F1

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Chemical name

French RG number

METHYL METHACRYLATE 80-62-6	RG 65, RG 82
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European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorization per REACH Annex XIV
METHYL METHACRYLATE - 80-62-6	75.	-
METHACRYLIC ACID - 79-41-4	75.	-
DIMETHYLBENZYL HYDROPEROXIDE - 80-15-9	75.	-

Persistent Organic Pollutants

Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

International Inventories

TSCA	Complies
DSL/NDL	Complies
EINECS/ELINCS	Complies
ENCS	Not determined
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Legend:

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

15.2. Chemical safety assessment

Chemical Safety Report No information available

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet**Full text of H-Statements referred to under section 3**

H225 - Highly flammable liquid and vapor

H242 - Heating may cause a fire
 H302 - Harmful if swallowed
 H312 - Harmful in contact with skin
 H314 - Causes severe skin burns and eye damage
 H315 - Causes skin irritation
 H317 - May cause an allergic skin reaction
 H331 - Toxic if inhaled
 H335 - May cause respiratory irritation
 H373 - May cause damage to organs through prolonged or repeated exposure
 H411 - Toxic to aquatic life with long lasting effects

Legend

SVHC: Substances of Very High Concern for Authorization:

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapor	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitization	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
 U.S. Environmental Protection Agency ChemView Database
 European Food Safety Authority (EFSA)
 EPA (Environmental Protection Agency)
 Acute Exposure Guideline Level(s) (AELG(s))
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
 U.S. Environmental Protection Agency High Production Volume Chemicals
 Food Research Journal
 Hazardous Substance Database
 International Uniform Chemical Information Database (IUCLID)
 Japan GHS Classification
 Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
 NIOSH (National Institute for Occupational Safety and Health)
 National Library of Medicine's ChemID Plus (NLM CIP)
 National Library of Medicine's PubMed database (NLM PUBMED)
 National Toxicology Program (NTP)
 New Zealand's Chemical Classification and Information Database (CCID)
 Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
 Organization for Economic Co-operation and Development High Production Volume Chemicals Program
 Organization for Economic Co-operation and Development Screening Information Data Set
 World Health Organization

Revision Date 03-Feb-2023

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006
 Disclaimer

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End of Safety Data Sheet