



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 15-May-2024

Version 13

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

1.1. Product identifier

Product Code PTX203012B
Product Name 84115 5 MINUTE PLASTIC WELD (ACTIVATOR)
Unique Formula Identifier (UFI) Code YGYH-G08S-Q00D-23D9
Other means of identification

Contains METHYL METHACRYLATE, Butyl acrylate, ACRYLONITRILE, ETHYL ACRYLATE

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

Recommended Use Activator
Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

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

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

E-mail address: mail@permatex.com

Non-Emergency Telephone Number 866-732-9502

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	+49 228 192 40
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

Flammable liquids	Category 2 - (H225)
Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
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)

2.2. Label elements

Contains METHYL METHACRYLATE, Butyl acrylate, ACRYLONITRILE, ETHYL ACRYLATE



Signal word

Danger

Hazard statements

H225 - Highly flammable liquid and vapor
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation

H335 - May cause respiratory irritation
H336 - May cause drowsiness or dizziness
H412 - Harmful to aquatic life with long lasting effects

Precautionary Statements - EU (§28, 1272/2008)

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P264 - Wash face, hands and any exposed skin thoroughly after handling
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
P501 - Dispose of contents/ container to an approved waste disposal plant

2.3. Other hazards

Harmful to aquatic life.

Endocrine Disruptor Information

SECTION 3: Composition/information on ingredients

3.1 Substances

Chemical name	Weight-%	REACH registration No.	EC No (EU Index 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	50 - <100%	Registration no. 01-211945249 8-28-XXXX	(607-035-00-6) (607-134-00-4) 201-297-1	Skin Irrit. 2 (H315) Skin Sens. 1 (H317) STOT SE 3 (H335) Flam. Liq. 2 (H225)	STOT SE 3 :: C>=10%	-	-
Butyl acrylate 141-32-2	0.001 - <0.025%	See CAS 27401-61-2	(607-062-00-3) (607-133-00-9) 205-480-7	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) STOT SE 3 (H335) Flam. Liq. 3 (H226)	STOT SE 3 :: C>=10%	-	-
ETHYL ACRYLATE 140-88-5	0.001 - <0.025%		(607-032-00-X) (607-133-00-9) 205-438-8	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317)	Eye Irrit. 2 :: C>=5% Skin Irrit. 2 :: C>=5% STOT SE 3 :: C>=5% STOT SE 3 :: C>=10%	-	-

				STOT SE 3 (H335) Flam. Liq. 2 (H225)			
1,3-BUTADIENE 106-99-0	0.001 - <0.025%	Registration no: 01-211947198 8-16-XXXX	(601-013-00-X) 203-450-8	Muta. 1B (H340) Carc. 1A (H350) Flam. Gas 1 (H220) Press. Gas	-	-	-

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

Acute Toxicity Estimate
No information available

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	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
Butyl acrylate 141-32-2	9050	3024	10.3	No data available	No data available
ETHYL ACRYLATE 140-88-5	550	1790	No data available	5.7732	No data available
1,3-BUTADIENE 106-99-0	5480	No data available	No data available	No data available	128826.9551

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

Effects of Exposure	No information available.
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Note to physicians

Treat symptomatically.

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.

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.

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.

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.

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.

7.3. Specific end use(s)

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 Sh+	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 * Skin Sensitisation
Butyl acrylate 141-32-2	TWA: 2 ppm TWA: 11 mg/m ³ STEL: 10 ppm STEL: 53 mg/m ³	TWA: 2 ppm TWA: 11 mg/m ³ STEL 10 ppm STEL 53 mg/m ³ S+	TWA: 2 ppm TWA: 11 mg/m ³ STEL: 10 ppm STEL: 53 mg/m ³	STEL: 10 ppm STEL: 53 mg/m ³ TWA: 2 ppm TWA: 11 mg/m ³	TWA: 2 ppm TWA: 11 mg/m ³ STEL: 10 ppm STEL: 53 mg/m ³ * Skin Sensitisation
ETHYL ACRYLATE 140-88-5	TWA: 5 ppm TWA: 21 mg/m ³ STEL: 10 ppm STEL: 42 mg/m ³	TWA: 5 ppm TWA: 20 mg/m ³ STEL 10 ppm STEL 40 mg/m ³ H* Sh+	TWA: 5 ppm TWA: 21 mg/m ³ STEL: 10 ppm STEL: 42 mg/m ³	STEL: 10 ppm STEL: 42 mg/m ³ TWA: 5 ppm TWA: 21 mg/m ³	TWA: 5 ppm TWA: 21 mg/m ³ STEL: 10 ppm STEL: 42 mg/m ³ * Skin Sensitisation
1,3-BUTADIENE 106-99-0	TWA: 2.2 mg/m ³ TWA: 1 ppm	-	TWA: 1 ppm TWA: 2.2 mg/m ³	TWA: 2.2 mg/m ³ TWA: 1 ppm	TWA: 1 ppm TWA: 2.2 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 D* S+	TWA: 25 ppm TWA: 102 mg/m ³ H* STEL: 100 ppm	S+ TWA: 50 ppm STEL: 100 ppm	TWA: 10 ppm TWA: 42 mg/m ³ STEL: 50 ppm STEL: 210 mg/m ³
Butyl acrylate 141-32-2	STEL: 10 ppm STEL: 53 mg/m ³ TWA: 2 ppm TWA: 11 mg/m ³	TWA: 10 mg/m ³ Ceiling: 20 mg/m ³ D* S+	TWA: 2 ppm TWA: 11 mg/m ³ STEL: 53 mg/m ³ STEL: 10 ppm	TWA: 2 ppm TWA: 11 mg/m ³ STEL: 10 ppm STEL: 53 mg/m ³	TWA: 2 ppm TWA: 11 mg/m ³ STEL: 10 ppm STEL: 53 mg/m ³
ETHYL ACRYLATE 140-88-5	STEL: 42 mg/m ³ STEL: 10 ppm TWA: 21 mg/m ³ TWA: 5 ppm	TWA: 20 mg/m ³ Ceiling: 40 mg/m ³ D* S+	TWA: 5 ppm TWA: 21 mg/m ³ H* STEL: 42 mg/m ³ STEL: 10 ppm	S+ TWA: 5 ppm TWA: 21 mg/m ³ STEL: 10 ppm STEL: 42 mg/m ³	TWA: 5 ppm TWA: 21 mg/m ³ STEL: 10 ppm STEL: 42 mg/m ³ iho*
1,3-BUTADIENE 106-99-0	TWA: 2.2 mg/m ³ TWA: 1 ppm	TWA: 10 mg/m ³ Ceiling: 2.2 mg/m ³ D*	TWA: 1 ppm TWA: 2.2 mg/m ³ STEL: 2 ppm STEL: 4.4 mg/m ³	TWA: 0.5 ppm TWA: 1 mg/m ³ STEL: 5 ppm STEL: 10 mg/m ³	TWA: 1 ppm TWA: 2.2 mg/m ³
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
METHYL METHACRYLATE 80-62-6	TWA: 50 ppm TWA: 205 mg/m ³ STEL: 100 ppm	TWA: 50 ppm TWA: 210 mg/m ³	TWA: 50 ppm TWA: 210 mg/m ³ Peak: 100 ppm	TWA: 50 ppm STEL: 100 ppm	TWA: 208 mg/m ³ TWA: 50 ppm sz+

	STEL: 410 mg/m ³		Peak: 420 mg/m ³ skin sensitizer		STEL: 415 mg/m ³ STEL: 100 ppm b*
Butyl acrylate 141-32-2	TWA: 2 ppm TWA: 11 mg/m ³ STEL: 10 ppm STEL: 53 mg/m ³	TWA: 2 ppm TWA: 11 mg/m ³ Sh+ H*	TWA: 2 ppm TWA: 11 mg/m ³ Peak: 4 ppm Peak: 22 mg/m ³ * skin sensitizer	TWA: 10 ppm TWA: 55 mg/m ³	TWA: 2 ppm TWA: 11 mg/m ³ STEL: 10 ppm STEL: 53 mg/m ³
ETHYL ACRYLATE 140-88-5	TWA: 5 ppm TWA: 21 mg/m ³ STEL: 42 mg/m ³ STEL: 10 ppm	TWA: 2 ppm TWA: 8.3 mg/m ³ Sh+ H*	TWA: 2 ppm TWA: 8.3 mg/m ³ Peak: 4 ppm Peak: 16.6 mg/m ³ * skin sensitizer	TWA: 5 ppm TWA: 21 mg/m ³ STEL: 10 ppm STEL: 42 mg/m ³	TWA: 5 ppm TWA: 21 mg/m ³ sz+ STEL: 10 ppm STEL: 42 mg/m ³ b*
1,3-BUTADIENE 106-99-0	TWA: 1 ppm TWA: 2.2 mg/m ³	-	-	TWA: 1 ppm TWA: 2.2 mg/m ³	TWA: 1 ppm TWA: 2.2 mg/m ³
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
METHYL METHACRYLATE 80-62-6	TWA: 50 ppm STEL: 100 ppm Sens+	TWA: 50 ppm STEL: 100 ppm	TWA: 50 ppm TWA: 205 mg/m ³ senD+ STEL: 100 ppm STEL: 410 mg/m ³	TWA: 10 mg/m ³	J+ TWA: 208 mg/m ³ TWA: 50 ppm STEL: 416 mg/m ³ STEL: 100 ppm
Butyl acrylate 141-32-2	TWA: 2 ppm TWA: 11 mg/m ³ STEL: 10 ppm STEL: 53 mg/m ³ Sens+	TWA: 2 ppm TWA: 11 mg/m ³ STEL: 10 ppm STEL: 53 mg/m ³	TWA: 2 ppm TWA: 10 mg/m ³ senD+	TWA: 2 ppm TWA: 11 mg/m ³ STEL: 10 ppm STEL: 53 mg/m ³	J+ TWA: 2 ppm TWA: 11 mg/m ³ STEL: 10 ppm STEL: 53 mg/m ³
ETHYL ACRYLATE 140-88-5	TWA: 5 ppm TWA: 20 mg/m ³ STEL: 10 ppm STEL: 41 mg/m ³ Sk* Sens+	TWA: 5 ppm TWA: 21 mg/m ³ STEL: 10 ppm STEL: 42 mg/m ³	TWA: 5 ppm TWA: 20 mg/m ³ STEL: 15 ppm STEL: 61 mg/m ³	TWA: 10 mg/m ³	J+ TWA: 5 ppm TWA: 21 mg/m ³ STEL: 10 ppm STEL: 42 mg/m ³
1,3-BUTADIENE 106-99-0	TWA: 1 ppm TWA: 2.2 mg/m ³ STEL: 3 ppm STEL: 6.6 mg/m ³	TWA: 2.2 mg/m ³ TWA: 1 ppm	TWA: 2 ppm TWA: 4.4 mg/m ³	TWA: 2.2 mg/m ³ TWA: 1 ppm	TWA: 0.5 ppm TWA: 1 mg/m ³ STEL: 5 ppm STEL: 10 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: 50 ppm TWA: 205 mg/m ³ STEL: 100 ppm STEL: 410 mg/m ³	TWA: 25 ppm TWA: 100 mg/m ³ A+ STEL: 100 ppm STEL: 400 mg/m ³	STEL: 300 mg/m ³ TWA: 100 mg/m ³
Butyl acrylate 141-32-2	STEL: 10 ppm STEL: 53 mg/m ³ TWA: 2 ppm TWA: 11 mg/m ³	STEL: 10 ppm STEL: 53 mg/m ³ TWA: 2 ppm TWA: 11 mg/m ³	TWA: 2 ppm TWA: 11 mg/m ³ STEL: 10 ppm STEL: 53 mg/m ³	TWA: 2 ppm TWA: 11 mg/m ³ A+ STEL: 4 ppm STEL: 16.5 mg/m ³	STEL: 30 mg/m ³ TWA: 11 mg/m ³
ETHYL ACRYLATE 140-88-5	STEL: 42 mg/m ³ STEL: 10 ppm TWA: 21 mg/m ³ TWA: 5 ppm	STEL: 42 mg/m ³ STEL: 10 ppm TWA: 21 mg/m ³ TWA: 5 ppm	TWA: 5 ppm TWA: 21 mg/m ³ STEL: 10 ppm STEL: 42 mg/m ³	TWA: 5 ppm TWA: 21 mg/m ³ A+ STEL: 10 ppm STEL: 42 mg/m ³ H*	STEL: 40 mg/m ³ TWA: 20 mg/m ³ skóra*
1,3-BUTADIENE 106-99-0	-	-	TWA: 0.89 ppm TWA: 2 mg/m ³	TWA: 1 ppm TWA: 2.2 mg/m ³ TWA: 40 ppm TWA: 275 mg/m ³ STEL: 3 ppm	TWA: 2.2 mg/m ³

				STEL: 4.4 mg/m³ STEL: 60 ppm STEL: 343.75 mg/m³	
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
METHYL METHACRYLATE 80-62-6	TWA: 50 ppm STEL: 100 ppm Sensitizer	TWA: 50 ppm TWA: 205 mg/m³ STEL: 100 ppm STEL: 410 mg/m³	TWA: 50 ppm S+ Ceiling: 420 mg/m³	TWA: 50 ppm TWA: 210 mg/m³ STEL: 100 ppm STEL: 420 mg/m³	TWA: 50 ppm STEL: 100 ppm Sen+
Butyl acrylate 141-32-2	TWA: 2 ppm TWA: 11 mg/m³ STEL: 10 ppm STEL: 53 mg/m³ Sensitizer dermal	TWA: 2 ppm TWA: 11 mg/m³ STEL: 10 ppm STEL: 53 mg/m³	TWA: 2 ppm TWA: 11 mg/m³ S+ Ceiling: 53 mg/m³	TWA: 2 ppm TWA: 11 mg/m³ STEL: 10 ppm STEL: 53 mg/m³ K*	TWA: 2 ppm TWA: 11 mg/m³ STEL: 10 ppm STEL: 53 mg/m³ Sen+
ETHYL ACRYLATE 140-88-5	TWA: 5 ppm TWA: 21 mg/m³ STEL: 10 ppm STEL: 42 mg/m³	TWA: 5 ppm TWA: 21 mg/m³ STEL: 10 ppm STEL: 42 mg/m³	TWA: 5 ppm TWA: 21 mg/m³ S+ Ceiling: 42 mg/m³	TWA: 5 ppm TWA: 21 mg/m³ STEL: 10 ppm STEL: 42 mg/m³ K*	TWA: 5 ppm TWA: 21 mg/m³ STEL: 10 ppm STEL: 42 mg/m³ Sen+
1,3-BUTADIENE 106-99-0	TWA: 1 ppm TWA: 2.2 mg/m³	TWA: 1 ppm TWA: 2.2 mg/m³ TWA: 700 mg/m³ STEL: 1000 mg/m³	TWA: 5 ppm TWA: 11 mg/m³ STEL: 25 ppm STEL: 55 mg/m³	TWA: 1 ppm TWA: 2.2 mg/m³	TWA: 1 ppm TWA: 2.2 mg/m³
Chemical name	Sweden		Switzerland		United Kingdom
METHYL METHACRYLATE 80-62-6	NGV: 50 ppm NGV: 200 mg/m³ Bindande KGV: 100 ppm Bindande KGV: 400 mg/m³ S+		S+ TWA: 50 ppm TWA: 210 mg/m³ STEL: 100 ppm STEL: 420 mg/m³		TWA: 50 ppm TWA: 208 mg/m³ STEL: 100 ppm STEL: 416 mg/m³
Butyl acrylate 141-32-2	NGV: 2 ppm NGV: 11 mg/m³ Bindande KGV: 10 ppm Bindande KGV: 53 mg/m³ S+		S+ TWA: 2 ppm TWA: 11 mg/m³ STEL: 4 ppm STEL: 22 mg/m³ H*		TWA: 1 ppm TWA: 5 mg/m³ STEL: 5 ppm STEL: 26 mg/m³
ETHYL ACRYLATE 140-88-5	NGV: 5 ppm NGV: 20 mg/m³ Bindande KGV: 10 ppm Bindande KGV: 40 mg/m³ S+		S+ TWA: 2.5 ppm TWA: 10 mg/m³ STEL: 10 ppm STEL: 42 mg/m³		TWA: 5 ppm TWA: 21 mg/m³ STEL: 10 ppm STEL: 42 mg/m³
1,3-BUTADIENE 106-99-0	NGV: 0.5 ppm NGV: 1 mg/m³ Bindande KGV: 5 ppm Bindande KGV: 10 mg/m³		TWA: 2 ppm TWA: 4.4 mg/m³		TWA: 1 ppm TWA: 2.2 mg/m³ STEL: 3 ppm STEL: 6.6 mg/m³

Biological occupational exposure limits

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

Chemical name	Denmark	Finland	France	Germany DFG	Germany TRGS
1,3-BUTADIENE 106-99-0	-	-	-	400 µg/g Creatinine - BAR (for long-term exposures: at the end of the shift after several shifts) urine <2 µg/g Creatinine - BAR (for long-term exposures: at the end of the shift after several shifts) urine 600 µg/g Creatinine -	-

				(end of exposure or end of shift) - urine 1000 µg/g Creatinine - (end of exposure or end of shift) - urine 1600 µg/g Creatinine - (end of exposure or end of shift) - urine 2900 µg/g Creatinine - (end of exposure or end of shift) - urine 4200 µg/g Creatinine - (end of exposure or end of shift) - urine 600 µg/g Creatinine - (long-term exposure: at the end of the shift after several shifts) - urine 1000 µg/g Creatinine - (long-term exposure: at the end of the shift after several shifts) - urine 1600 µg/g Creatinine - (long-term exposure: at the end of the shift after several shifts) - urine 2900 µg/g Creatinine - (long-term exposure: at the end of the shift after several shifts) - urine 4200 µg/g Creatinine - (long-term exposure: at the end of the shift after several shifts) - urine 10 µg/g Creatinine - (end of exposure or end of shift) - urine 20 µg/g Creatinine - (end of exposure or end of shift) - urine 40 µg/g Creatinine - (end of exposure or end of shift) - urine 80 µg/g Creatinine - (end of exposure or end of shift) - urine 120 µg/g Creatinine - (end of exposure or end of shift) - urine 10 µg/g Creatinine - (long-term exposure: at the end of the shift	
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				after several shifts) - urine 20 µg/g Creatinine - (long-term exposure: at the end of the shift after several shifts) - urine 40 µg/g Creatinine - (long-term exposure: at the end of the shift after several shifts) - urine 80 µg/g Creatinine - (long-term exposure: at the end of the shift after several shifts) - urine 120 µg/g Creatinine - (long-term exposure: at the end of the shift after several shifts) - urine	
Chemical name	Hungary	Ireland	Italy MDLPS	Italy AIDII	
1,3-BUTADIENE 106-99-0	-	2.5 mg/L (urine - 1,2-Dihydroxy-4-(N-acetyl cysteinyl)-butane end of shift) 2.5 pmol/g hemoglobin (blood - Mixture of N-1 and N-2-(hydroxybutenyl)valin e hemoglobin adducts not critical)	-	2.5 mg/L - urine (1,2-Dihydroxy-4-(N-acet ylcysteinyl)-butane) - end of shift 2.5 pmol/g hemoglobin - blood (Mixture of N-1 and N-2-(hydroxybutenyl)valin e hemoglobin adducts) - not critical	
Chemical name	Slovenia	Spain	Switzerland	United Kingdom	
1,3-BUTADIENE 106-99-0	2900 µg/g Creatinine - urine (3,4-Dihydroxybutyl mercapturic acid) - at the end of the work shift; in case of prolonged exposure, at the end of the work shift after several consecutive working hours 80 µg/g Creatinine - urine (2-Hydroxy-3-butenylmer capturic acid) - at the end of the work shift; in case of prolonged exposure, at the end of the work shift after several consecutive working hours	2.5 mg/L (urine - 1,2-Dihydroxy-4-(N-acetyl cysteinyl)-butane end of shift) 2.5 pmol/g hemoglobin (blood - Mixture of N-1 and N-2-(hydroxybutenyl)valin e not critical)	-	-	

8.2. Exposure controls**Derived No Effect Level (DNEL) - Workers** No information available**Derived No Effect Level (DNEL) - General Public** No information available.

Predicted No Effect Concentration (PNEC) No information available.

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	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	Tag Closed Cup
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	
None known		

9.2. Other information

VOC content	89
Formula	No information available

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)	8,507.10 mg/kg
ATEmix (dermal)	4,378.90 mg/kg
ATEmix (inhalation-gas)	99,999.00 ppm
ATEmix (inhalation-dust/mist)	30.10 mg/l
ATEmix (inhalation-vapor)	99,999.00 mg/l

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
Butyl acrylate	= 9050 mg/kg (Rat)	= 3024 mg/kg (Rabbit)	= 10.3 mg/L (Rat) 4 h
ETHYL ACRYLATE	= 550 mg/kg (Rat)	= 1790 mg/kg (Rabbit)	= 1410 ppm (Rat) 4 h
1,3-BUTADIENE	= 5480 mg/kg (Rat)	-	= 285 g/m ³ (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.

Chemical name	European Union
1,3-BUTADIENE	Muta. 1B

Carcinogenicity No information available.

Chemical name	European Union
1,3-BUTADIENE	Carc. 1A

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.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
METHYL METHACRYLATE	EC50: =170mg/L (96h, Pseudokirchneriella subcapitata)	LC50: 243 - 275mg/L (96h, Pimephales promelas) LC50: 125.5 - 190.7mg/L (96h, Pimephales promelas) LC50: 170 - 206mg/L (96h, Lepomis macrochirus) LC50: 153.9 - 341.8mg/L (96h, Lepomis macrochirus) LC50: >79mg/L (96h, Oncorhynchus mykiss) LC50: 326.4 - 426.9mg/L (96h, Poecilia reticulata)	-	EC50: =69mg/L (48h, Daphnia magna)
Butyl acrylate	EC50: =5.5mg/L (96h, Pseudokirchneriella subcapitata)	LC50: =5.2mg/L (96h, Oncorhynchus mykiss)	EC50 = 31.0 mg/L 30 min EC50 = 35.0 mg/L 15 min EC50 = 37.0 mg/L 5 min	EC50: =8.2mg/L (48h, Daphnia magna)
ETHYL ACRYLATE	EC50: =48mg/L (72h, Desmodesmus subspicatus)	LC50: =4.6mg/L (96h, Oncorhynchus mykiss) LC50: 2.31 - 2.7mg/L (96h, Pimephales promelas)	-	EC50: =7.9mg/L (48h, Daphnia magna)

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	1.38
Butyl acrylate	2.38
ETHYL ACRYLATE	1.18
1,3-BUTADIENE	1.99

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

Butyl acrylate	The substance is not PBT / vPvB
ETHYL ACRYLATE	The substance is not PBT / vPvB
1,3-BUTADIENE	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
Butyl acrylate - 141-32-2	RG 65
ETHYL ACRYLATE - 140-88-5	RG 65
1,3-BUTADIENE - 106-99-0	RG 99

Chemical name	Netherlands - List of Carcinogens	Netherlands - List of Mutagens	Netherlands - List of Reproductive Toxins
1,3-BUTADIENE	Present	Present	-

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.	-
Butyl acrylate - 141-32-2	75.	-
ETHYL ACRYLATE - 140-88-5	75.	-
1,3-BUTADIENE - 106-99-0	28. 29. 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	Complies
IECSC	Complies
KECI	Complies
PICCS	Complies
AICS	Complies

Legend:

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

H220 - Extremely flammable gas
H225 - Highly flammable liquid and vapor
H226 - Flammable liquid and vapor
H302 - Harmful if swallowed
H312 - Harmful in contact with skin
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H332 - Harmful if inhaled
H335 - May cause respiratory irritation
H340 - May cause genetic defects
H350 - May cause cancer

Legend

SVHC: Substances of Very High Concern for Authorization:
vPvB: Very Persistent and very Bioaccumulative (vPvB) Chemicals

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
Skin sensitization	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	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)

Environmental Protection Agency
Acute Exposure Guideline Level(s) (AEGL(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)
U.S. 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 15-May-2024

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

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End of Safety Data Sheet

EU SDS version information - EGHS

UL release:
GHS Revision 7
2023 Q1

Specific target organ toxicity (single exposure)	Category 3
Category 3 Target organ effects: Respiratory irritation.	

Full text of H-Statements referred to under section 3

H220 - Extremely flammable gas H225 - Highly flammable liquid and vapor H226 - Flammable liquid and vapor H302 - Harmful if swallowed H312 - Harmful in contact with skin H315 - Causes skin irritation H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation H332 - Harmful if inhaled H335 - May cause respiratory irritation H340 - May cause genetic defects H350 - May cause cancer

Chemical name	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)
METHYL METHACRYLATE	Skin Irrit. 2 (H315) Skin Sens. 1 (H317) STOT SE 3 (H335) Flam. Liq. 2 (H225)	STOT SE 3 :: C>=10%
Butyl acrylate	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) STOT SE 3 (H335) Flam. Liq. 3 (H226)	STOT SE 3 :: C>=10%
ETHYL ACRYLATE	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 4 (H332)	Eye Irrit. 2 :: C>=5% Skin Irrit. 2 :: C>=5% STOT SE 3 :: C>=5%

	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) STOT SE 3 (H335) Flam. Liq. 2 (H225)	STOT SE 3 :: C>=10%
1,3-BUTADIENE	Muta. 1B (H340) Carc. 1A (H350) Flam. Gas 1 (H220) Press. Gas	

Chemical name	CAS No.	French RG number
METHYL METHACRYLATE	80-62-6	RG 65, RG 82
Butyl acrylate	141-32-2	RG 65
ETHYL ACRYLATE	140-88-5	RG 65
1,3-BUTADIENE	106-99-0	RG 99

VOC content