



SAFETY DATA SHEET

PAR1 Primer

According to EC Regulation No 1272/2008 (CLP)

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

1.1. Product identifier

Product name PAR1 Primer

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

Identified uses Construction Chemicals

1.3. Details of the supplier of the safety data sheet

Supplier GCP Applied Technologies (UK) Ltd
(formerly Stirling Lloyd Polychem Ltd)
Gateway
Gate Street
Dukinfield
SK16 4RU
UNITED KINGDOM
T : +44(0)1565 633111
(Technical/Commercial enquiries)
F : +44(0)1565 633555
sdsadministrator@gcp.com

1.4. Emergency telephone number

Emergency telephone For Chemical Emergency (Spill, Leak, Fire, Exposure or Accident) - Call CHEMTREC (Day/Night) on:- Within USA & Canada : 1-800-424-9300 Outside USA & Canada : +1 703-527-3887

National emergency telephone number CHEMTREC UK +(44)-870-8200418

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Flam. Liq. 2 - H225
Health hazards Skin Irrit. 2 - H315 Skin Sens. 1 - H317 STOT SE 3 - H335
Environmental hazards Not Classified

Classification (67/548/EEC or 1999/45/EC) Xi;R37/38. R43. F;R11.

2.2. Label elements

Pictogram



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Signal word	Danger
Hazard statements	H225 Highly flammable liquid and vapour. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H335 May cause respiratory irritation.
Precautionary statements	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P333+P313 If skin irritation or rash occurs: Get medical advice/ attention. P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P501 Dispose of contents/ container in accordance with national regulations.
Contains	METHYL METHACRYLATE, BUTYL METHACRYLATE -norm

2.3. Other hazards

Flammable liquid and vapor. Closed containers can burst violently when heated, due to excess pressure build-up. Causes skin irritation Vapors irritating to eyes and respiratory tract. May cause allergic skin reaction

SECTION 3: Composition/information on ingredients

3.2. Mixtures

METHYL METHACRYLATE 40-60%		
CAS number: 80-62-6	EC number: 201-297-1	REACH registration number: 01-2119452498-28-XXXX
Classification	Classification (67/548/EEC or 1999/45/EC)	
Flam. Liq. 2 - H225	F;R11 R43 Xi;R37/38	
Skin Irrit. 2 - H315		
Skin Sens. 1 - H317		
STOT SE 3 - H335		
BUTYL METHACRYLATE -norm 5-10%		
CAS number: 97-88-1	EC number: 202-615-1	REACH registration number: 01-2119486394-28-XXXX
Classification	Classification (67/548/EEC or 1999/45/EC)	
Flam. Liq. 3 - H226	R10 R43 Xi;R36/37/38	
Skin Irrit. 2 - H315		
Eye Irrit. 2 - H319		
Skin Sens. 1 - H317		
STOT SE 3 - H335		

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Remove affected person from source of contamination. Keep the affected person warm and at rest. Get prompt medical attention.
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Ingestion	Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Never give anything by mouth to an unconscious person. Get medical attention immediately.
Skin contact	Remove affected person from source of contamination. Remove contaminated clothing. Rinse immediately with plenty of water. Get medical attention promptly if symptoms occur after washing.
Eye contact	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.

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

General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Headache. Fatigue. Nausea, vomiting.
Ingestion	May cause nausea, headache, dizziness and intoxication. Burning sensation in mouth.
Skin contact	Prolonged or repeated contact with skin may cause irritation, redness and dermatitis. The product contains a sensitising substance. May cause sensitisation or allergic reactions in sensitive individuals.
Eye contact	Irritation, burning, lachrymation, blurred vision after liquid splash.

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

Notes for the doctor	No specific recommendations. It is important to remove the substance from the skin immediately.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Extinguish with the following media: Foam. Dry chemicals, sand, dolomite etc. Water spray, fog or mist.
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5.2. Special hazards arising from the substance or mixture

Specific hazards	Fire creates: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO ₂). Nitrous gases (NO _x). Closed containers can burst violently when heated, due to excess pressure build-up.
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5.3. Advice for firefighters

Protective actions during firefighting	Cool containers exposed to flames with water until well after the fire is out.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Do not touch or walk into spilled material. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate.
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6.2. Environmental precautions

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Environmental precautions Avoid discharge to the aquatic environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Stop leak if possible without risk. Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. If involved in a fire, shut off flow if it can be done without risk.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. See Section 11 for additional information on health hazards. For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Keep away from heat, sparks and open flame. Avoid inhalation of vapours/spray and contact with skin and eyes. Provide adequate ventilation. Do not use in confined spaces without adequate ventilation and/or respirator. Vapours may accumulate on the floor and in low-lying areas. Static electricity and formation of sparks must be prevented. Persons susceptible to allergic reactions should not handle this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame. Protect from light. Take precautionary measures against static discharges.

Storage class Flammable liquid storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

METHYL METHACRYLATE

Long-term exposure limit (8-hour TWA): WEL 50 ppm 208 mg/m³

Short-term exposure limit (15-minute): WEL 100 ppm 416 mg/m³

WEL = Workplace Exposure Limit

METHYL METHACRYLATE (CAS: 80-62-6)

DNEL	Professional - Inhalation; Long term : 210 mg/m ³ Professional - Dermal; Long term : 13.7 mg/kg/day Consumer - Inhalation; Long term : 74.3 mg/m ³ Consumer - Dermal; Long term : 8.2 mg/kg/day
PNEC	- Fresh water; Long term 0.94 mg/l - Marine water; 0.094 mg/l - Sediment; 5.74 mg/kg - Soil; 1.47 mg/kg

BUTYL METHACRYLATE -norm (CAS: 97-88-1)

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DNEL	Industry - Inhalation; Long term : 209.4 Industry - Dermal; Long term : 5 mg/kg/day
PNEC	Industry - Fresh water; Long term 0.17 mg/l

8.2. Exposure controls

Protective equipment



Eye/face protection

The following protection should be worn: Chemical splash goggles.

Hand protection

Wear protective gloves made of the following material: Rubber (natural, latex). Neoprene. Polyvinyl chloride (PVC). The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material.

Hygiene measures

Do not smoke in work area. Promptly remove any clothing that becomes contaminated. Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke.

Respiratory protection

No specific recommendations. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit. Wear a respirator fitted with the following cartridge: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. Organic vapour filter.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Viscous liquid. Liquid.
Colour	Straw.
Odour	Characteristic.
Initial boiling point and range	~ 100°C @°C @ 760 mm Hg
Flash point	~ 12°C CC (Closed cup).
Upper/lower flammability or explosive limits	Lower flammable/explosive limit: 2.0% Upper flammable/explosive limit: 13.0%
Relative density	~ 1.0 - 1.3 @ @ 20°C
Solubility(ies)	Slightly soluble in water. Miscible with the following materials: Organic solvents.
Auto-ignition temperature	~ 430°C

9.2. Other information

Other information	Not determined.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity

Polymerisable material. Reactions with the following materials may generate heat: Acids. Alkalis. Amines. Organic peroxides/hydroperoxides. Strong oxidising agents. Strong reducing agents.

10.2. Chemical stability

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Stability Stable at normal ambient temperatures and when used as recommended. Avoid the following conditions: Heat, sparks, flames. Light.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Polymerises easily with evolution of heat.

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition. Protect from light.

10.5. Incompatible materials

Materials to avoid Avoid contact with oxidizers, acids, aluminium, zinc, amines, peroxides, aluminium- and iron-chlorides.

10.6. Hazardous decomposition products

Hazardous decomposition products Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects No data recorded.

Acute toxicity - oral

ATE oral (mg/kg) 10,526.32

Acute toxicity - dermal

ATE dermal (mg/kg) 31,578.95

Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 147.37

Inhalation Irritating to respiratory system.

Ingestion May cause stomach pain or vomiting. May cause nausea, headache, dizziness and intoxication.

Skin contact Irritating to skin. May cause sensitisation by skin contact.

Eye contact Irritating to eyes. Vapour or spray in the eyes may cause irritation and smarting.

Toxicological information on ingredients.

METHYL METHACRYLATE

Toxicological effects No data recorded.

Other health effects IARC Class 3. NTP Not Listed.

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 8,400.0

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 5,000.0

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Species	Rabbit
<u>Acute toxicity - inhalation</u>	
Acute toxicity inhalation (LC₅₀ vapours mg/l)	7,093.0
Species	Rat
<u>Skin corrosion/irritation</u>	
Animal data	Dose: 0.5 ml, 4 hr, Rabbit Irritating to skin.
Extreme pH	Not applicable. Moderate pH (> 2 and < 11.5).
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	Slightly irritating.
<u>Skin sensitisation</u>	
Skin sensitisation	- Mouse: Sensitising.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Chromosome aberration: Inconclusive.
Genotoxicity - in vivo	Chromosome aberration: Inconclusive.
<u>Carcinogenicity</u>	
Carcinogenicity	NOAEL 4.1 mg/L , Inhalation, Rat NOAEL 90.3 mg/kg/day , Oral, Rat There is no evidence that the product can cause cancer.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Two-generation study - NOAEL 400 mg/kg, Oral, Rat
Reproductive toxicity - development	Developmental toxicity: - NOAEL: 450 mg/kg, Oral, Rabbit
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	NOAEC 124.1 mg/kg, Oral, Rat None known.
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Inhalation	Vapours have a narcotic effect. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting. Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Coughing.
Ingestion	Irritating. Symptoms following overexposure may include the following: Dizziness. Nausea, vomiting.
Skin contact	May be absorbed through the skin. Prolonged contact may cause redness, irritation and dry skin. May cause sensitisation by skin contact.
Eye contact	Vapour or spray in the eyes may cause irritation and smarting.
Route of entry	Skin absorption Inhalation

SECTION 12: Ecological Information

12.1. Toxicity

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Toxicity The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

12.2. Persistence and degradability

Persistence and degradability The product is not readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential The product does not contain any substances expected to be bioaccumulating.

12.4. Mobility in soil

Mobility The product has poor water-solubility.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Other adverse effects Not determined.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Dispose of waste via a licensed waste disposal contractor.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID)	1866
UN No. (IMDG)	1866
UN No. (ICAO)	1866

14.2. UN proper shipping name

Proper shipping name (ADR/RID)	RESIN SOLUTION
Proper shipping name (IMDG)	RESIN SOLUTION
Proper shipping name (ICAO)	RESIN SOLUTION
Proper shipping name (ADN)	RESIN SOLUTION

14.3. Transport hazard class(es)

ADR/RID class	3
ADR/RID label	3
IMDG class	3
ICAO class/division	3

Transport labels



14.4. Packing group

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ADR/RID packing group II

IMDG packing group II

ICAO packing group II

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

EmS F-E, S-E

Emergency Action Code 3YE

Hazard Identification Number 33
(ADR/RID)

Tunnel restriction code (D/E)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

SECTION 15: Regulatory information

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

National regulations The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).

The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].

EU legislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Major Accident Hazard Legislation

Health and environmental listings Regulation (EC) No 2037/2000 of the European Parliament and of the Council of 29 June 2000 on substances that deplete the ozone layer (as amended). Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants (as amended). Regulation (EC) 689/2008 of the European Parliament and of the Council of 17 June 2008 concerning the export and import of dangerous chemicals (as amended). None of the ingredients are listed.

Authorisations (Title VII Regulation 1907/2006) No specific authorisations are known for this product.

Restrictions (Title VIII Regulation 1907/2006) No specific restrictions on use are known for this product.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

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SECTION 16: Other information

General information	<p>This product is intended for use for the application set out in the technical data sheet only. The Risk Phrases shown below relate to the individual components in Section 3 and NOT to the Product.</p> <p>The Risk Phrases for the Product are shown in Section 2.</p> <p>.</p>
Revision comments	<p>Change from previous version concerns: Revised to Comply with Regulation (EC) No.1907/2006 Annex II</p>
Revision date	16/02/2018
Revision	1
Supersedes date	23/06/2016
Risk phrases in full	<p>R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</p>
Hazard statements in full	<p>H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H335 May cause respiratory irritation.</p>

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.