



SAFETY DATA SHEET

PRIMER MSP
Revision Number 1

Revision date 22-Apr-2020
Supersedes Date: 22-Apr-2020

1. Identification

1.1. Product Identifier

Product Name PRIMER MSP

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

Recommended use Primers.
Uses advised against Consumer use

1.3. Details of the supplier of the safety data sheet

Responsible Party

Bostik Inc.
11320 W. Watertown Plank Road
Wauwatosa, Wisconsin 53226 USA
Phone: +1 (800) 843-0844 (Domestic Toll Free)
Phone: +1 (414) 774-2250 (International)
Fax: +1 (414) 774-8075

Manufacturer

Bostik GmbH
An der Bundesstrasse 16
33829 Borgholzhausen, Germany
Tel: +49 (0) 5425 / 801 0
Fax: +49 (0) 5425 / 801 140

E-mail msds@bostik.com

1.4. Emergency telephone number

Telephone: 1-800-227-0332
(Outside U.S.) 1-703-527-3887

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Skin sensitization	Category 1
Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2
Flammable liquids	Category 2

2.2. Label Elements

EMERGENCY OVERVIEW

Danger

Hazard statements

Causes skin irritation
Causes serious eye irritation
May cause an allergic skin reaction
Suspected of damaging fertility or the unborn child
May cause respiratory irritation
May cause drowsiness or dizziness
May cause damage to organs through prolonged or repeated exposure

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Highly flammable liquid and vapor



Appearance No information available **Physical State** Liquid

Odor Solvent

Precautionary Statements - Prevention

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Wash face, hands and any exposed skin thoroughly after handling
Contaminated work clothing should not be allowed out of the workplace
Do not breathe dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use explosion-proof electrical/ ventilating/ lighting/ equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Keep cool
Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
If skin irritation or rash occurs: Get medical advice/attention. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
In case of fire: Use CO₂, dry chemical, or foam to extinguish.

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

Unknown acute toxicity

3 % of the mixture consists of ingredient(s) of unknown toxicity

2.3. Other Information

No information available.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

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3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	CAS No	Weight-%
Toluene	108-88-3	40 - 70
1-Butanol	71-36-3	1 - 5
Methyl methacrylate	80-62-6	0.1 - 1
Butyl methacrylate	97-88-1	0.1 - 1

**The exact percentage (concentration) of composition has been withheld as a trade secret.*

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

General advice	If medical advice is needed, have product container or label at hand.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. May cause sensitization by skin contact. In the case of skin irritation or allergic reactions see a physician.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, call a physician. Administer oxygen if breathing is difficult. If breathing has stopped, give artificial respiration. Get medical attention immediately.
Ingestion	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
Self-protection of the first aider	Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Avoid contact with skin, eyes or clothing.

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

Symptoms	May cause redness, itching, and pain. Irritating to eyes. Irritating to skin. May cause respiratory tract irritation. Drowsiness. Dizziness. Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization in susceptible persons.
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4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians	May cause sensitization by skin contact. Treat symptomatically.
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4.4. Reference to Other Sections

Reference to other sections	See Section 12: ECOLOGICAL INFORMATION Section 7: HANDLING AND STORAGE Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION
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Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

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Suitable extinguishing media

Move containers from fire area if you can do it without risk. Use CO2, dry chemical, or foam.

Unsuitable extinguishing media

Use water spray or fog; do not use straight streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical

Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). Keep product and empty container away from heat and sources of ignition. Product is or contains a sensitizer. May cause sensitization by skin contact.

Hazardous combustion products Carbon monoxide. Carbon dioxide (CO2).

Explosion Data

Sensitivity to mechanical impact

None.

Sensitivity to static discharge

May be ignited by friction, heat, sparks or flames.

5.3. Advice for firefighters

Special protective actions for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

Remove all sources of ignition. Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid breathing vapors or mists. Ensure adequate ventilation, especially in confined areas. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling.

Other information

Water spray may reduce vapor; but may not prevent ignition in closed spaces.

For emergency responders

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

6.2. Environmental precautions

Environmental precautions

Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment

Dike far ahead of spill; use dry sand to contain the flow of material. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

Methods for cleaning up

Use personal protective equipment as required. Dam up. Soak up with inert absorbent material. Use clean non-sparking tools to collect absorbed material. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly.

6.4. Reference to other sections

Reference to other sections

See Section 12: ECOLOGICAL INFORMATION
Section 7: HANDLING AND STORAGE
Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling

Use personal protective equipment as required. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static charges. Use explosion-proof electrical/ventilating/ lighting/ equipment. Ensure adequate ventilation, especially in confined areas. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin, eyes or clothing. After contact with skin, wash immediately with plenty of water and soap. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep only in the original container/package in a cool well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Do not store near combustible materials.

Incompatible materials

Strong acids and bases.

7.3. Specific end use(s)

Specific Use(s)

Primers.

Other information

No information available.

7.4. References to Other Sections

Reference to other sections

See Section 12: ECOLOGICAL INFORMATION
Section 7: HANDLING AND STORAGE
Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure Guidelines

Chemical name	ACGIH TLV	NIOSH IDLH	OSHA PEL	Mexico
Toluene 108-88-3	TWA: 20 ppm	IDLH: 500 ppm TWA: 100 ppm TWA: 375 mg/m ³ STEL: 150 ppm STEL: 560 mg/m ³	TWA: 200 ppm Ceiling: 300 ppm	TWA: 20 ppm
1-Butanol 71-36-3	TWA: 20 ppm	IDLH: 1400 ppm Ceiling: 50 ppm Ceiling: 150 mg/m ³	TWA: 100 ppm TWA: 300 mg/m ³	TWA: 20 ppm
Methyl methacrylate 80-62-6	STEL: 100 ppm TWA: 50 ppm	IDLH: 1000 ppm TWA: 100 ppm TWA: 410 mg/m ³	TWA: 100 ppm TWA: 410 mg/m ³	TWA: 50 ppm STEL: 100 ppm

Chemical name	Argentina	Brazil	Chile	Venezuela
Toluene 108-88-3	TWA: 50 ppm Skin	TWA: 78 ppm TWA: 290 mg/m ³ Skin	TWA: 87 ppm TWA: 328 mg/m ³ Skin	Skin TWA: 20 ppm
1-Butanol 71-36-3	Ceiling: 50 ppm Skin	TWA: 40 ppm TWA: 115 mg/m ³	Ceiling: 50 ppm Ceiling: 152 mg/m ³	Skin TWA: 20 ppm

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		Ceiling: 40 ppm Ceiling: 115 mg/m ³ Skin		
Methyl methacrylate 80-62-6	TWA: 50 ppm STEL: 100 ppm	TWA: 78 ppm TWA: 320 mg/m ³	TWA: 87 ppm TWA: 359 mg/m ³	STEL: 100 ppm TWA: 50 ppm

8.2. Exposure controls

Engineering controls Showers
Eyewash stations
Ventilation systems. Ensure adequate ventilation, especially in confined areas.
Vapors/aerosols must be exhausted directly at the point of origin.

Personal protective equipment [PPE]

Eye/face protection Wear safety glasses with side shields (or goggles).
Skin and body protection Wear suitable chemical resistant gloves. The selection of suitable gloves does not only depend on the material, but also on further marks of quality and various manufacturers.
Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
General hygiene considerations Use personal protective equipment as required. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Avoid breathing (dust, vapor, mist, gas). Avoid contact with eyes, skin and clothing. Wash hands thoroughly after handling. Take off immediately all contaminated clothing and wash it before reuse. Regular cleaning of equipment, work area and clothing is recommended.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state Liquid
Color Colorless to yellow
Odor Solvent
Odor threshold No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	Not applicable .	
Melting point / freezing point	No data available	
Boiling point / boiling range	111 °C / 232 °F	
Flash point	8 °C / 46 °F	DIN 51755 Part 1
Evaporation rate	No information available	
Flammability (solid, gas)	Not applicable for liquids .	
Flammability Limit in Air		
Upper flammability or explosive limits	ca. 7 Vol.%	
Lower flammability or explosive limits	ca. 1.2 Vol.%	
Vapor pressure	< < 1100	hPa @ 50 °C
Vapor density	No information available	
Relative density	0.95	
Water solubility	Insoluble	
Solubility in Other Solvents		
Partition coefficient	No information available	
Autoignition temperature	420 °C / 788 °F	
Decomposition temperature	No information available	
Kinematic viscosity	> 21 mm ² /s	@ 40°C

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Dynamic viscosity	approx. 100 - 300 mPa s
Explosive properties	May form explosive mixtures with air
Explosive Limits	
Upper	7.0 Vol %
Lower	1.2 Vol %
Oxidizing properties	No information available
9.2. Other information	
Softening Point	No information available
Molecular weight	No information available
Solvent content (%)	No information available
Solid content (%)	approx. 37
Density	0.95 g/cm ³
VOC Content (%)	approx. 600 g/L / 63 %

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

Stable under recommended storage conditions.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Vapors or dust may form explosive mixtures with air.

10.4. Conditions to avoid

Keep away from heat, sparks and flames.

10.5. Incompatible materials

Strong acids and bases.

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide (CO₂).

Section 11: TOXICOLOGY INFORMATION

11.1. Information on toxicological effects

Product Information

Inhalation	May cause drowsiness or dizziness. May cause irritation of respiratory tract.
Eye contact	Irritating to eyes.
Skin contact	Irritating to skin. May cause sensitization by skin contact.
Ingestion	Based on available data, the classification criteria are not met.

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Toluene 108-88-3	=5580 mg/kg (Rattus)	= 12000 mg/kg (Oryctolagus cuniculus)	>20 mg/L (Rattus) 4 h
1-Butanol	=700 mg/kg (Rattus)	= 3400 mg/kg (Oryctolagus)	>8000 ppm (Rattus) 4 h

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71-36-3	= 790 mg/kg (Rattus)	cuniculus) = 3402 mg/kg (Oryctolagus cuniculus)	
Methyl methacrylate 80-62-6	=7872 mg/kg (Rattus)	5000 - 7500 mg/kg (Oryctolagus cuniculus) > 5 g/kg (Oryctolagus cuniculus)	=7093 ppm (Rattus) 4 h
Butyl methacrylate 97-88-1	=16 g/kg (Rattus)	= 11300 mg/kg (Oryctolagus cuniculus)	=4910 ppm (Rattus) 4 h

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

Symptoms	No information available.
Skin corrosion/irritation	Irritating to skin.
Serious eye damage/eye irritation	Irritating to eyes.
Irritation	No information available.
Corrosivity	No information available.
Sensitization	May cause sensitization of susceptible persons. May cause sensitization by skin contact.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Possible risk of harm to the unborn child. Product is or contains a chemical which is a known or suspected reproductive hazard.
Developmental toxicity	No information available.
Teratogenicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Chronic Toxicity	Contains a known or suspected reproductive toxin. Avoid repeated exposure. May cause adverse liver effects.
Target organ effects	liver, Eyes, Skin, kidney, blood, Central nervous system, Respiratory system.
Aspiration hazard	Not applicable.
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Toluene 108-88-3	-	Group 3	-	-
Methyl methacrylate 80-62-6	-	Group 3	-	-

IARC (International Agency for Research on Cancer)
Group 3 - *Not Classifiable as to Carcinogenicity in Humans*

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
Toluene 108-88-3	EC50 72 h = 12.5 mg/L (Pseudokirchneriella subcapitata)	LC50 96 h 5.89 - 7.81 mg/L (Oncorhynchus mykiss flow-through) LC50 96 h = 5.8 mg/L (Oncorhynchus mykiss semi-static)	EC50 = 19.7 mg/L 30 min	EC50: =11.5mg/L (48h, Daphnia magna) EC50: 5.46 - 9.83mg/L (48h, Daphnia magna)
1-Butanol 71-36-3	EC50 (72h) = 225 mg/L (Pseudokirchneriella subcapitata)	LC50 (96h) = 1376 mg/l (Pimephales promelas) OECD 203	EC50 = 2041.4 mg/L 5 min EC50 = 2186 mg/L 30 min EC50 = 3980 mg/L 24 h EC50 = 4400 mg/L 17 h	EC 50 (48h) = 1328 mg/l (Daphnia magna) OECD 202
Methyl methacrylate 80-62-6	EC50: =170mg/L (96h, Pseudokirchneriella subcapitata)	LC50 96 h > 79 mg/L (Oncorhynchus mykiss static) Lepomis macrochirus 96h		EC50: =69mg/L (48h, Daphnia magna)

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		=191-283 mg/l		
Butyl methacrylate 97-88-1	EC50: =57mg/L (96h, Pseudokirchneriella subcapitata)	LC50: =11mg/L (96h, Pimephales promelas)	EC50 = 37 mg/L 5 min EC50 = 49 mg/L 15 min EC50 = 55 mg/L 30 min EC50 > 253.6 mg/L 18 h	EC50: =32mg/L (48h, Daphnia magna)

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

There is no data for this product.

12.4. Mobility in soil

No information available.

Other adverse effects

No information available

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Disposal of Wastes

It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Contaminated packaging

Dispose of in accordance with federal, state and local regulations

Section 14: TRANSPORT INFORMATION

Note:

The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments made in non-bulk packages (see regulatory definition)
The information shown here, may not always agree with the bill of lading shipping description for the material

DOT

UN/ID No	UN1993
Proper Shipping Name	Flammable liquids, n.o.s.
Hazard class	3
Packing Group	II
Reportable Quantity (RQ)	(Toluene: RQ (kg)= 454.00)
Special Provisions	IB2, T7, TP1, TP8, TP28
Description	UN1993, Flammable liquids, n.o.s. (Toluene, 1-Butanol), 3, II
Emergency Response Guide Number	128

IATA

UN number	UN1993
Proper Shipping Name	Flammable liquid, n.o.s. (Toluene, 1-Butanol)
Transport hazard class(es)	3
Packing group	II
ERG Code	3H
Special Provisions	A3
Description	UN1993, Flammable liquid, n.o.s. (Toluene, 1-Butanol), 3, II

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IMDG

UN number UN1993
UN proper shipping name Flammable liquid, n.o.s.
Transport hazard class(es) 3
Packing group II
EmS-No. F-E, S-E
Special Provisions 274
Description UN1993, Flammable liquid, n.o.s. (Toluene, 1-Butanol), 3, II, (8°C c.c.)

Section 15: REGULATORY INFORMATION

Global Inventories

TSCA	Listed
DSL	Listed

Legend:

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

DSL - Canadian Domestic Substances List

Listed - The components of this product are either listed or exempt from listing on inventory.

Not Listed - One or more components of this product are not listed on inventory.

United States of America

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	CAS No
Toluene	108-88-3
1-Butanol	71-36-3

SARA 311/312 Hazard Categories

Classification is shown in section 2 of this SDS

Europe

Restrictions of Use of Hazardous Substances (RoHS) Directive 2011/65/EU

This product does not contain Lead (7439-92-1), Cadmium (7440-43-9), Mercury (7439-97-6), Hexavalent chromium (7440-47-3), Polybrominated biphenyls (PBB), and Polybrominated diphenyl ethers (PBDE) above the regulated limit mentioned in this regulation

SVHC: Substances of Very High Concern for Authorization:

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 16: OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet

No information available

Key Literature References and Sources for Data

No information available

Prepared By Product Safety & Regulatory Affairs

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Revision note Not applicable.

Training Advice No information available

Further information No information available

Disclaimer

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End of Safety Data Sheet