



Safety Data Sheet

30022080
PRIMER MSP

Revision Date 10-Aug-2017
Supersedes Date: 10-Aug-2017
Version 1

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product Identifier

Product Name PRIMER MSP
Product Code 30022080
Product(s) Covered See section 16 for more information
Gen Code / Barcode 8713572601101

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

Recommended use Primers, Professional use.
Uses Advised Against No information available

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

E-mail msds@bostik-us.com

Manufacturer

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

1.4. Emergency telephone number

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

Section 2: HAZARD 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

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May cause an allergic skin reaction
Suspected of damaging fertility or the unborn child
May cause drowsiness or dizziness
May cause damage to organs through prolonged or repeated exposure
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/sparks/open flames/hot surfaces. — 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
Specific treatment (see first aid measures on this label)
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.
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

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May be harmful if swallowed.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Mixture

3.2 Mixtures

Chemical Name	CAS No.	Weight-%
Toluene	108-88-3	60 - 100
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	In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. 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	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, call a physician.
Ingestion	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. If swallowed, rinse mouth with water (only if the person is conscious).
Self-protection of the First Aider	Use personal protective equipment as required.

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

Symptoms None known.

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

Note to physicians Treat symptomatically. May cause sensitization by skin contact.

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

Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

Carbon dioxide (CO₂). Extinguishing powder. Alcohol resistant foam. Water spray (fog).

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Unsuitable Extinguishing Media

Full water jet.

5.2. Special hazards arising from the substance or mixture

Specific Hazards Arising from the Chemical

Vapors or dust may form explosive mixtures with air. Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). May cause sensitization by skin contact.

Hazardous Combustion Products Carbon oxides. Silicon oxides.

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

Protective Equipment and Precautions for Firefighters

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 Evacuate personnel to safe areas. Use personal protective equipment as required. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid breathing vapors or mists. Ventilate affected area. Avoid contact with skin, eyes or clothing.

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.

6.2. Environmental precautions

Environmental Precautions Prevent product from entering drains. Do not allow to enter into soil/subsoil. See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for Containment 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 (e.g. sand, silica gel, acid binder, universal binder, sawdust). Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. Take precautionary measures against static discharges.

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/sparks/open flames/hot surfaces. — No smoking. Take precautionary measures against static charges. Provide adequate ventilation as well as local exhaustion at critical locations. Avoid breathing vapors or mists. 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).

Incompatible Materials

Water. Bases. Acids.

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: 50 ppm TWA: 188 mg/m ³
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	Ceiling: 50 ppm Ceiling: 150 mg/m ³
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: 100 ppm TWA: 410 mg/m ³ STEL: 125 ppm STEL: 510 mg/m ³

Chemical Name	Argentina	Brazil	Chile	Venezuela
Toluene 108-88-3	TWA: 50 ppm Skin	TWA: 78 ppm TWA: 290 mg/m ³ Skin	TWA: 80 ppm TWA: 300 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: 40 ppm	Ceiling: 50 ppm Ceiling: 152 mg/m ³ Skin	Skin TWA: 20 ppm

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		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: 80 ppm	STEL: 100 ppm TWA: 50 ppm

8.2. Exposure controls

Engineering Controls Ensure adequate ventilation, especially in confined areas.

Personal protective equipment [PPE]

Eye/Face Protection Tight sealing safety 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. Keep away from food, drink and animal feeding stuffs. Avoid contact with eyes, skin and clothing. Wash hands thoroughly after handling. Take off 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 pale yellow
Odor Solvent
Odor Threshold No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No information available	Not applicable
Melting Point/Freezing Point	No information available	
Boiling Point	approx 110 °C / 230 °F	
Flash Point	approx 8 °C / 46.4 °F	DIN 51755 Part 1
Evaporation Rate	No information available	
Flammability (solid, gas)	No information available	Not applicable for liquids
Flammability Limit in Air		
Upper Flammability Limit	No information available	
Lower Flammability Limit	No information available	
Vapor Pressure	< 1100	hPa @ 50 °C
Vapor Density	No information available	
Relative Density	0.95 °C @ 25 °C	
		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 mm²/s @ 40°C

Dynamic Viscosity approx 100 - 300 mPa s

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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 (%) No information available
Density
VOC No information available

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

Heat, flames and sparks. Protect from moisture.

10.5. Incompatible Materials

Water. Bases. Acids.

10.6. Hazardous Decomposition Products

Carbon oxides. Carbon monoxide. Carbon dioxide (CO₂). Hydrocarbons.

Section 11: TOXICOLOGY INFORMATION

11.1. Information on Toxicological Effects

Product Information No Data Available
Inhalation May cause drowsiness or dizziness.
Eye contact Severely irritating to eyes.
Skin Contact Irritating to skin. May cause sensitization by skin contact.
Ingestion No known effect based on information supplied.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Toluene 108-88-3	= 5580 mg/kg (Rat)	= 12000 mg/kg (Rabbit)	> 20 mg/L (Rat) 4 h
1-Butanol 71-36-3	= 700 mg/kg (Rat) = 790 mg/kg (Rat)	= 3402 mg/kg (Rabbit) = 3400 mg/kg (Rabbit)	> 8000 ppm (Rat) 4 h
Methyl methacrylate	= 7872 mg/kg (Rat)	5000 - 7500 mg/kg (Rabbit) > 5	= 7093 ppm (Rat) 4 h

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80-62-6		g/kg (Rabbit)	
Butyl methacrylate 97-88-1	= 16 g/kg (Rat)	= 10181 mg/kg (Rabbit)	= 4910 ppm (Rat) 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	Severe eye irritation.
Irritation	No information available.
Corrosivity	No information available.
Sensitization	May cause sensitization of susceptible persons. May cause sensitization by skin contact.
Germ Cell Mutagenicity	No information available.
Reproductive Toxicity	Possible risk of impaired fertility. 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	May cause drowsiness or dizziness.
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	Central nervous system, Eyes, Kidney, Liver, Respiratory system, Skin.
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 48 h 5.46 - 9.83 mg/L (Daphnia magna Static) EC50 48 h = 11.5 mg/L (Daphnia magna)
1-Butanol 71-36-3	EC50 96 h > 500 mg/L (Desmodesmus subspicatus) EC50 72 h > 500 mg/L (Desmodesmus subspicatus)	LC50 96 h 100000 - 500000 µg/L (Lepomis macrochirus static) LC50 96 h 1730 - 1910 mg/L (Pimephales promelas static) LC50 96 h = 1740 mg/L (Pimephales promelas flow-through) LC50 96 h = 1910000 µg/L (Pimephales promelas static)	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	EC50 48 h = 1983 mg/L (Daphnia magna) EC50 48 h 1897 - 2072 mg/L (Daphnia magna Static)
Methyl methacrylate 80-62-6	EC50 96 h = 170 mg/L (Pseudokirchneriella	LC50 96 h > 79 mg/L (Oncorhynchus mykiss		EC50 48 h = 69 mg/L (Daphnia magna)

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	subcapitata)	static) Lepomis macrochirus 96h =191-283 mg/l		
Butyl methacrylate 97-88-1	EC50 96 h = 57 mg/L (Pseudokirchneriella subcapitata)	LC50 96 h = 11 mg/L (Pimephales promelas flow-through)	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 48 h = 32 mg/L (Daphnia magna)

12.2. Persistence and Degradability

No information available.

12.3. Bioaccumulative Potential

No information available.

12.4. Mobility in Soil

No information available.

12.5 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: TRANSPORTATION INFORMATION

DOT

UN/ID No UN1993
 Proper Shipping Name Flammable liquids, n.o.s. (Toluene, 1-Butanol)
 Hazard Class 3
 Packing Group II
 Reportable Quantity (RQ) (Toluene: RQ (kg)= 0.454)
 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/ID No UN1993
 Proper Shipping Name Flammable liquid, n.o.s. (Toluene, 1-Butanol)
 Hazard Class 3
 Packing Group II
 ERG Code 3H
 Special Provisions A3
 Description UN1993, Flammable liquid, n.o.s. (Toluene, 1-Butanol), 3, II

IMDG

UN/ID No UN1993

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Proper Shipping Name	Flammable liquid, n.o.s. (Toluene, 1-Butanol)
Hazard Class	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.

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class

B2 - Flammable liquid

D2A - Very toxic materials



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

Acute Health Hazard	yes
Chronic Health Hazard	yes
Fire Hazard	yes
Sudden release of pressure hazard	No
Reactive Hazard	No

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.

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EU-REACH (1907/2006) - Candidate List of Substances of Very High Concern (SVHC) for Authorization in accordance with Article 59

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

Product(s) Covered

30022080
30604724
30821217
30826364

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
Revision Date	10-Aug-2017
Revision Note	Not applicable.
Training Advice	Provide adequate information, instruction, and training for operator
Additional information	No information available

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.

End of Safety Data Sheet