



Safety Data Sheet

USAD
Ultra Set Advanced Series

Revision Date 24-May-2016
Supersedes Date: No information available
Version 1

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

1.1. Product Identifier

Product Name Ultra Set Advanced Series
Product Code USAD
Product(s) Covered See section 16 for more information

1.2. Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Recommended use Adhesives.
Uses Advised Against No information available

1.3. Details of the Supplier of the Safety Data Sheet

Company Name

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
Email: msds@bostik-us.com

1.4. Emergency Telephone Number

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

Section 2: HAZARD IDENTIFICATION

2.1. Classification of the Substance or Mixture

Respiratory sensitization	Category 1
Skin sensitization	Category 1
Reproductive Toxicity	Category 1B
Flammable Liquids	Category 4

2.2. Label Elements

EMERGENCY OVERVIEW

DANGER

Hazard statements

May cause allergy or asthma symptoms or breathing difficulties if inhaled
May cause an allergic skin reaction
May damage fertility or the unborn child
Combustible liquid

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Appearance Paste

Physical State Liquid

Odor Odorless

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
Avoid breathing dust/fume/gas/mist/vapors/spray
In case of inadequate ventilation wear respiratory protection
Contaminated work clothing should not be allowed out of the workplace
Wear protective gloves
Keep away from heat/sparks/open flames/hot surfaces. — No smoking

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention
Specific treatment (see first aid measures on this label)
IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
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 cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards Not Otherwise Classified (HNOC)

Not applicable

Unknown Toxicity

17% of the mixture consists of ingredient(s) of unknown toxicity

2.3. Other Information

Causes mild skin irritation.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

This product is a mixture. Health hazard information is based on its components.

3.2 Mixtures

Chemical Name	CAS No	Weight-%
Limestone	1317-65-3	30 - 60
Calcium carbonate	471-34-1	7 - 13
Naphtha, petroleum, heavy alkylate	64741-65-7	5 - 10

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Isophorone diisocyanate	4098-71-9	0.1 - 1
Quartz	14808-60-7	0.1 - 1
Benzenesulfonyl isocyanate, 4-methyl-	4083-64-1	0.1 - 1
Dibutyltin dilaurate	77-58-7	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	Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. If symptoms persist, call a physician.
Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.
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. If skin irritation persists, call a physician.
Inhalation	Move to fresh air in case of accidental inhalation of vapors or decomposition products. If breathing is difficult, give oxygen. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If symptoms persist, call a physician.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. If symptoms persist, call a physician.
Self-protection of the First Aider	Use personal protective equipment as required.

4.2. Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms No information available.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

Note to physicians May cause sensitization of susceptible persons. Treat symptomatically.

4.4. Reference to Other Sections

Reference to Other Sections Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION
Section 11: TOXICOLOGY INFORMATION

Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media

Use. Dry chemical. Carbon dioxide (CO₂). Water spray (fog). Alcohol resistant foam.

Unsuitable Extinguishing Media

CAUTION: Use of water spray when fighting fire may be inefficient.

5.2. Special Hazards Arising from the Substance or Mixture

Specific Hazards Arising from the Chemical

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In the event of fire and/or explosion do not breathe fumes. May cause sensitization by inhalation and skin contact. Thermal decomposition can lead to release of irritating and toxic gases and vapors. Keep product and empty container away from heat and sources of ignition. Risk of ignition.

Explosion Data

Sensitivity to Mechanical Impact	None.
Sensitivity to Static Discharge	None.

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

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Pay attention to flashback. Take precautionary measures against static discharges.

6.2. Environmental Precautions

Environmental Precautions

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. 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

Use personal protective equipment as required. Dam up. Cover liquid spill with sand, earth or other non-combustible absorbent material. Pick up and transfer to properly labeled containers. Take precautionary measures against static discharges. Clean contaminated surface thoroughly.

6.4. Reference to other sections

Reference to Other Sections

Section 7: HANDLING AND STORAGE
Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION
Section 13: DISPOSAL CONSIDERATIONS

Section 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Advice on Safe Handling

Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Use with local exhaust ventilation. All equipment used when handling the product must be grounded. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).

7.2. Conditions for Safe Storage, including any Incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach

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of children. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Protect from direct contact with water or excessive moisture. Reacts with water.

Incompatible Materials Water.

7.3. Specific End Use(s)

Other Information No information available.

7.4. References to Other Sections

Reference to Other Sections Section 13: DISPOSAL CONSIDERATIONS
Section 10: STABILITY AND REACTIVITY

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

Exposure Guidelines

As Quartz (14808-60-7) is inextricably bound in the polymer matrix, it is not expected to be available as an airborne hazard (dust, mist, or spray) under normal condition of uses. As Limestone CAS 1317-65-3 and Calcium carbonates (CAS 471-34-1) is inextricably bound in the polymer matrix, it is not expected to be available as an airborne hazard (dust, mist, or spray) under normal condition of uses.

Chemical Name	ACGIH TLV	NIOSH IDLH	OSHA PEL	Mexico
Limestone 1317-65-3	-	TWA: 10 mg/m ³ total dust TWA: 5 mg/m ³ respirable dust	TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction	TWA: 10 mg/m ³ STEL: 20 mg/m ³
Calcium carbonate 471-34-1	-	TWA: 10 mg/m ³ total dust TWA: 5 mg/m ³ respirable dust	-	-
Isophorone diisocyanate 4098-71-9	TWA: 0.005 ppm	TWA: 0.005 ppm TWA: 0.045 mg/m ³ STEL: 0.02 ppm STEL: 0.180 mg/m ³	-	TWA: 0.01 ppm TWA: 0.09 mg/m ³
Quartz 14808-60-7	TWA: 0.025 mg/m ³ respirable fraction	IDLH: 50 mg/m ³ respirable dust TWA: 0.05 mg/m ³ respirable dust	: (30)/(%SiO ₂ + 2) mg/m ³ TWA total dust : (250)/(%SiO ₂ + 5) mppcf TWA respirable fraction : (10)/(%SiO ₂ + 2) mg/m ³ TWA respirable fraction	TWA: 0.1 mg/m ³
Dibutyltin dilaurate 77-58-7	STEL: 0.2 mg/m ³ Sn TWA: 0.1 mg/m ³ Sn S*	IDLH: 25 mg/m ³ Sn TWA: 0.1 mg/m ³ except Cyhexatin Sn	TWA: 0.1 mg/m ³ Sn	TWA: 0.1 mg/m ³ STEL: 0.2 mg/m ³

Chemical Name	Argentina	Brazil	Chile	Venezuela
Limestone 1317-65-3	TWA: 10 mg/m ³	-	TWA: 8 mg/m ³	-
Calcium carbonate 471-34-1	-	-	-	TWA: 10 mg/m ³
Isophorone diisocyanate 4098-71-9	TWA: 0.005 ppm	-	-	TWA: 0.005 ppm
Quartz 14808-60-7	TWA: 0.05 mg/m ³	-	TWA: 0.08 mg/m ³	TWA: 0.025 mg/m ³
Dibutyltin dilaurate 77-58-7	TWA: 0.1 mg/m ³ Skin STEL: 0.2 mg/m ³	-	TWA: 0.08 mg/m ³ Skin	Skin STEL: 0.2 mg/m ³ TWA: 0.1 mg/m ³

Chemical Name	ACGIH TLV	NIOSH IDLH	OSHA PEL	Mexico
Methanol	STEL: 250 ppm	IDLH: 6000 ppm	TWA: 200 ppm	TWA: 200 ppm

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67-56-1	TWA: 200 ppm S*	TWA: 200 ppm TWA: 260 mg/m ³ STEL: 250 ppm STEL: 325 mg/m ³	TWA: 260 mg/m ³	TWA: 260 mg/m ³ STEL: 250 ppm STEL: 310 mg/m ³
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Chemical Name	Argentina	Brazil	Chile	Venezuela
Methanol 67-56-1	TWA: 200 ppm Skin STEL: 250 ppm	TWA: 156 ppm TWA: 200 mg/m ³ Skin	TWA: 175 ppm TWA: 229 mg/m ³ Skin	Skin STEL: 250 ppm TWA: 200 ppm

8.2. Exposure Controls

Engineering Controls Showers
 Eyewash stations
 Ventilation systems.

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 When using do not eat, drink or smoke. 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
Appearance Paste
Color Cream
Odor Odorless
Odor Threshold Not applicable

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No information available	
Melting Point/Freezing Point	No information available	
Boiling Point	172 °C / 341.6 °F	
Flash Point	71.1 °C / 160 °F	
Evaporation Rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper Flammability Limit	No information available	
Lower Flammability Limit	No information available	
Vapor Pressure	No information available	
Vapor Density	No information available	
Specific Gravity	No information available	
Water Solubility	No information available	
Solubility in Other Solvents		
Partition Coefficient	No information available	
Autoignition Temperature	No information available	
Decomposition Temperature	No information available	
Kinematic Viscosity	No information available	
Dynamic Viscosity	No information available	
Explosive Properties	No information available	
Oxidizing Properties	No information available	

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9.2. Other Information

Softening Point No information available
Molecular Weight No information available
Solvent Content (%) No information available
Solid Content (%) 92.5
Density 1.69 g/cm³
VOC < 40 g/L

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

None under normal use conditions.

10.2. Chemical Stability

Stable under recommended storage conditions.

10.3. Possibility of Hazardous Reactions

None under normal processing.

10.4. Conditions to Avoid

Heat, flames and sparks. Reacts with water.

10.5. Incompatible Materials

Water.

10.6. Hazardous Decomposition Products

None known based on information supplied.

Section 11: TOXICOLOGY INFORMATION

11.1. Information on Toxicological Effects

Product Information No Data Available
Inhalation No Data Available.
Eye contact No Data Available.
Skin Contact No Data Available.
Ingestion No Data Available.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Limestone 1317-65-3	>5000 mg/kg (rat)	-	-
Calcium carbonate 471-34-1	= 6450 mg/kg (Rat)	>2000 mg/kg	LC50 (4h) >3mg/ml (Rat)
Naphtha, petroleum, heavy alkylate 64741-65-7	> 7000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.04 mg/L (Rat) 4 h
Isophorone diisocyanate 4098-71-9	= 4814 mg/kg (Rat)	1060 - 4780 mg/kg (Rabbit)	= 0.135 mg/L (Rat) 4 h
Quartz 14808-60-7	>2000 mg/kg (Rat)	-	-

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Benzenesulfonyl isocyanate, 4-methyl- 4083-64-1	= 2234 mg/kg (Rat)	-	> 640 ppm (Rat) 1 h
Dibutyltin dilaurate 77-58-7	= 2071 mg/kg (Rat)	> 2000 mg/kg (Rat)	-

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

Symptoms	No information available.
Skin Corrosion/Irritation	No information available.
Serious Eye Damage/Eye Irritation	No information available.
Irritation	No information available.
Corrosivity	No information available.
Sensitization	No information available.
Germ Cell Mutagenicity	No information available.
Reproductive Toxicity	No information available.
Developmental Toxicity	No information available.
Teratogenicity	No information available.
STOT - Single Exposure	No information available.
STOT - Repeated Exposure	No information available.
Chronic Toxicity	Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure.
Target Organ Effects	Eyes, Respiratory system, Skin.
Aspiration Hazard	No information available.
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen. As Quartz (14808-60-7) is inextricably bound in the polymer matrix, it is not expected to be available as an airborne hazard (dust, mist, or spray) under normal condition of uses.

Chemical Name	ACGIH	IARC	NTP	OSHA
Quartz 14808-60-7	A2	Group 1	Known	X

ACGIH (American Conference of Governmental Industrial Hygienists)
A2 - Suspected Human Carcinogen
IARC (International Agency for Research on Cancer)
Group 1 - Carcinogenic to Humans
NTP (National Toxicology Program)
Known - Known Carcinogen
OSHA (Occupational Safety and Health Administration of the US Department of Labor)
X - Present

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Chemical Name	Algae/Aquatic Plants	Fish	Toxicity to Microorganisms	Crustacea
Limestone 1317-65-3	CE50 (72h) >200mg/L Algae (Desmodesmus subspicatus)	CL50 (96h) >10000mg/L Fish (Oncorhynchus mykiss)		CE50 (48h) >1000 mg/L Daphnia Magna
Calcium carbonate 471-34-1	IC50 72H Algae >1000 mg/l	CL50 96H Fish >1000 mg/l		EC50 48H Daphnia >1000 mg/l
Naphtha, petroleum, heavy alkylate 64741-65-7	EC50 72 h = 30000 mg/L (Pseudokirchneriella subcapitata)			LC50 48 h = 2 mg/L (Mysidopsis bahia)
Isophorone diisocyanate 4098-71-9	EC50 72 h = 118.7 mg/L (Desmodesmus)	LC50 48 h = 1.8 mg/L (Leuciscus idus static)		EC50 24 h = 83.7 mg/L (Daphnia magna)

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	subspicatus)			
Dibutyltin dilaurate 77-58-7		LC50 48 h = 2 mg/L (Oryzias latipes)		

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

Note:

49 CFR 173.150(f)(2) "The requirements in this subchapter do not apply to a material classed as a combustible liquid in a non-bulk packaging unless the combustible liquid is a hazardous substance, a hazardous waste, or a marine pollutant."

DOT

UN/ID No	NA1993
Proper Shipping Name	Combustible liquid, n.o.s. (Naphtha, petroleum, heavy alkylate)
Hazard Class	Combustible liquid
Packing Group	III
Special Provisions	IB3, T1, TP1
Description	NA1993, Combustible liquid, n.o.s. (Naphtha, petroleum, heavy alkylate), Combustible liquid, III
Emergency Response Guide Number	128

IATA

Not regulated

IMDG

Not regulated

Section 15: REGULATORY INFORMATION

Global Inventories

TSCA	Listed
DSL	Listed

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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

B3 - Combustible 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 does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

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

California Proposition 65

This product contains one or more of the substances listed on Proposition 65 at or above 0.01 wt. %

Chemical Name	CAS No
1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich	68515-49-1
Quartz	14808-60-7
N-(trichloromethylthio)phthalimide	133-07-3

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.

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

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A60820	BOS MEM ULTRASET ADVANC 12X20
G60800-5G	BOS MEM ULTRA-SET ADVANCE 5G
G60800-UA2	BOS MEM ULTRA-SET ADVANCE 2G

HMIS **Health Hazards** 2* **Flammability** 2 **Physical Hazards** 0 **Personal Protection** X

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 24-May-2016

Revision Note Not applicable.

Training Advice No information available

Additional information No information available

Disclaimer

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End of Safety Data Sheet