

In accordance with Hazardous Products Regulations (HPR) (SOR/2015-17)

ULTRASET SINGLE STEP 2(R) Revision Number 1.01 Revision date 18-Oct-2023 Supersedes Date: 13-Oct-2023

1. Identification of the Substance/Preparation and of the Company/Undertaking

Product identifier		
Product Name	ULTRASET SINGLE STEP 2(R)	
Other means of identification		
Synonyms	None	
Recommended use of the chemica	and restrictions on use	
Recommended use	Adhesives	
Uses advised against	No information available	
Details of the supplier of the safety	data sheet	
Responsible Party Bostik Canada Limited 655 Alphonse-Deshaies Boulevard Becancour Quebec G9H 2Y8 Canada Phone: +1 (514) 593-0418	Manufacturer Address Bostik Inc. 11320 W. Watertown Plank Road Wauwatosa, Wisconsin 53226 USA Phone: +1(800) 726-7845 (Domestic Toll Free) Phone: +1 (414) 774-2250 (International)	

Emergency telephone number

Fax: +1 (514) 593-0413 E-mail msds@bostik.com

CHEMTREC (Chemical Transportation Emergency Center) Chemtrec: 1-800-424-9300 (US), 1-703-527-3887 (Outside U.S.) Rocky Mountain Poison Center: 1-866-767-5089

2. Hazards Identification

Classification

Skin sensitization	Category 1
Reproductive toxicity	Category 1B

Label elements

Danger

Hazard statements

May cause an allergic skin reaction May damage fertility or the unborn child

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Precautionary Statements - Prevention

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Wear protective gloves, protective clothing, eye protection and face protection Avoid breathing dust, fume, gas, mist, vapors and spray Contaminated work clothing should not be allowed out of the workplace

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

Skin

IF ON SKIN: Wash with plenty of water and soap If skin irritation or rash occurs: Get medical advice and attention Take off contaminated clothing and wash it before reuse

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents and container to an approved waste disposal plant

Other information

Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing.

Unknown acute toxicity

5 % of the mixture consists of ingredient(s) of unknown toxicity

3. Composition/information on Ingredients

Substance

Not applicable.

Mixture

Chemical name	CAS No.	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Limestone	1317-65-3	45 - 70	-	-
Carbonic acid, calcium salt (1:1)	471-34-1	1 - 5	-	-
Trimethoxyvinylsilane	2768-02-7	0.5 - 1.5	-	-
Carbon black	1333-86-4	0.1 - 1	-	-
N-(3-(trimethoxysilyl)propyl)ethylenediamine	1760-24-3	0.1 - 1	-	-
Quartz	14808-60-7	0.1 - 1	-	-
Tin, dibutylbis(2,4-pentanedionato-O,O')-,	22673-19-4	0.1 - 1	-	-

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(OC-6-11)-		

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

4. First Aid Measures Description of first aid measures General advice IF exposed or concerned: Get medical advice/attention. Inhalation Remove to fresh air. If symptoms persist, call a physician.

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. Do not rub affected
	area. Get medical attention if irritation develops and persists.

- Skin contactImmediately flush eyes or skin with plenty of water for at least 15 minutes while removing
contaminated clothing and shoes. May cause sensitization by skin contact. May cause an
allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.
- Ingestion Small amounts of toxic methanol are released by hydrolysis. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Call a physician immediately.

Most important symptoms and effects, both acute and delayed

Symptoms	Itching. Rashes. Hives. May cause sensitization by skin contact. May cause allergic skin
	reaction.

Indication of any immediate medical attention and special treatment needed

Note to physicians	Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released, when the
	product is exposed to moisture or water. Treat symptomatically.

5. Fire-Fighting Measures	
Suitable extinguishing media	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.
Unsuitable extinguishing media	Full water jet.
Specific hazards arising from the chemical	Thermal decomposition can lead to release of irritating gases and vapors. Product is or contains a sensitizer. May cause sensitization by skin contact.
Hazardous combustion products	Carbon oxides. Carbon monoxide. Carbon dioxide (CO2). Sulfur oxides. Silicon dioxide.
Explosion data Sensitivity to mechanical impac	t None.
Sensitivity to static discharge	None.
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. Accidental Release Measures			
Personal precautions, protective equipment and emergency procedures			
Personal precautions	Use personal protective equipment as required. Stop leak if you can do it without risk. Ensure adequate ventilation. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling.		
Environmental precautions			
Environmental precautions	Prevent product from entering drains. Do not allow to enter into soil/subsoil. See Section 12 for additional Ecological Information.		
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. Take up with sand or other noncombustible absorbent material and place into containers for later disposal. Clean contaminated surface thoroughly.		
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.		

7. Handling and Storage	
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. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Take off contaminated clothing and wash before reuse. Remove contaminated clothing and shoes.
Conditions for safe storage, includi	ng any incompatibilities
Storage Conditions	Keep containers tightly closed in a cool, well-ventilated place. Protect from moisture. Keep away from food, drink and animal feeding stuffs. Store locked up.
Reference to other sections	Section 10: STABILITY AND REACTIVITY

8. Exposure Controls/Personal Protection

Control parameters

Exposure Limits

This product contains substances which in their raw state are powder form, however in this product they are in a non-respirable form. Inhalation of powder/dust particles is unlikely to occur from exposure to this product. Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing.

Chemical name	Alberta	British Columbia	Ontario TWA	Quebec
Limestone	TWA: 10 mg/m ³	TWA: 10 mg/m ³		TWA: 10 mg/m ³
1317-65-3		TWA: 3 mg/m ³		_
		STEL: 20 mg/m ³		

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Carbonic acid, calcium salt (1:1) 471-34-1	TWA: 10 mg/m ³			TWA: 10 mg/m ³
Trimethoxyvinylsilane 2768-02-7			STEL: 10 ppm STEL: 60 mg/m ³	
Carbon black 1333-86-4	TWA: 3.5 mg/m ³	TWA: 3 mg/m ³	TWA: 3 mg/m ³	TWA: 3 mg/m ³
Quartz 14808-60-7	TWA: 0.025 mg/m ³	TWA: 0.025 mg/m ³	TWA: 0.10 mg/m ³	TWA: 0.1 mg/m ³
Tin, dibutylbis(2,4-pentanedio nato-O,O')-, (OC-6-11)- 22673-19-4	TWA: 0.1 mg/m³ STEL: 0.2 mg/m³ Skin	TWA: 0.1 mg/m³ STEL: 0.2 mg/m³ Skin	TWA: 0.1 mg/m³ STEL: 0.2 mg/m³ Skin	TWA: 0.1 mg/m ³ STEL: 0.2 mg/m ³ Skin

Chemical name	Alberta	British Columbia	Ontario TWA	Quebec
Methyl alcohol	TWA: 200 ppm	TWA: 200 ppm	TWA: 200 ppm	TWA: 200 ppm
67-56-1	TWA: 262 mg/m ³	STEL: 250 ppm	STEL: 250 ppm	TWA: 262 mg/m ³
	STEL: 250 ppm	Skin	Skin	STEL: 250 ppm
	STEL: 328 mg/m ³			STEL: 328 mg/m ³
	Skin			Skin

Appropriate engineering controls

Engineering controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, su	ch as personal protective equipment
Eye/face protection	Wear safety glasses with side shields (or goggles).
Hand 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.
Skin and body protection	Wear suitable protective clothing.
Respiratory protection	Use appropriate respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Recommended filter type:	Organic gases and vapors filter conforming to EN 14387. White. Brown.
General hygiene considerations	Wear suitable gloves and eye/face protection. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Take off contaminated clothing and wash it before reuse. Regular cleaning of equipment, work area and clothing is recommended.

9. Physical and Chemical Properties

Information on basic physical and chemical properties Physical state Liquid Appearance Paste

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Color	Cream		
Odor	Fruity		
Odor threshold	No information available		
ouor intesticia			
Property	Values	Remarks • Method	
рН	No data available		
pH (as aqueous solution)	No data available		
Melting point / freezing point	No data available		
Initial boiling point and boiling rang			
Flash point	> 93.3 °C / 200 °F		
Evaporation rate	No data available		
Flammability	Not applicable for liquids .		
Flammability Limit in Air			
Upper flammability or explosive limits	No data available		
Lower flammability or explosive limits	No data available		
Vapor pressure	No data available		
Relative vapor density	No data available		
Relative density	No data available		
Water solubility	No data available		
Solubility in Other Solvents	No data available		
Partition coefficient	No data available		
Autoignition temperature	No data available		
Decomposition temperature			
Kinematic viscosity	No data available		
Dynamic viscosity	No data available		
Explosive properties	No information available.		
Oxidizing properties	No information available.		
Other information			
Softening Point	No information available		
Molecular weight	No information available		
Density	1.710 g/cm ³		
Bulk density	No information available		
Solid content (%)	96.8		
VOC content	0 g/L	No information available	
10. Stability and Reactivity			
Poactivity	No information available		

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	Protect from moisture. Exposure to air or moisture over prolonged periods. Do not freeze. Keep away from open flames, hot surfaces and sources of ignition.
Incompatible materials	None known based on information supplied.
Hazardous decomposition product	s None under normal use conditions. Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing.

11. Toxicological Information

Information on likely routes of exposure

Inhalation	Based on available data, the classification criteria are not met.	
Eye contact	Based on available data, the classification criteria are not met.	
Skin contact	May cause sensitization by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.	
Ingestion	Based on available data, the classification criteria are not met.	
Symptoms related to the physical,	chemical and toxicological characteristics	
Symptoms	Itching. Rashes. Hives.	

Numerical measures of toxicity

Acute toxicity

The following values are calculated based on chapter 3.1 of the GHS document				
ATEmix (oral)	>5000 mg/kg			
ATEmix (dermal)	36,780.60 mg/kg			
ATEmix (inhalation-gas)	>20000			
mg/l				
ATEmix (inhalation-dust/mist)	>5 mg/l			
ATEmix (inhalation-vapor)	917.40 mg/l			

Unknown acute toxicity

5 % of the mixture consists of ingredient(s) of unknown toxicity

Component Information

component information			
Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Limestone 1317-65-3	>5000 mg/kg (Rattus)	-	-
Carbonic acid, calcium salt (1:1) 471-34-1	LD50 > 2000 mg/kg (Rattus) OECD 420	LD50 >2000 mg/kg (Rattus) OECD 402	LC50 (4h) >3mg/ml (Rattus)
Trimethoxyvinylsilane 2768-02-7	LD50 = 7120 -7236 mg/kg (Rattus) OECD 401	= 3540 mg/kg (Oryctolagus cuniculus)	LC50 (4hr) 16.8 mg/l (Rattus) OECD TG 403
Carbon black 1333-86-4	LD50 > 8000 mg/kg (Rattus) OECD 401	> 3 g/kg (Oryctolagus cuniculus)	> 4.6 mg/m³ (Rat)4 h
N-(3-(trimethoxysilyl)propyl)ethy lenediamine 1760-24-3	=2295 mg/kg (Rattus)	>2000 mg/Kg (Rattus)	LC50 4H (Aerosol)1.5 - 2.44 mg/L air
Quartz 14808-60-7	=6450 mg/kg (Rattus)	-	-
Tin, dibutylbis(2,4-pentanedionato-O ,O')-, (OC-6-11)- 22673-19-4	LD50 = 1864 mg/kg (Rattus) OECD 401	LD50 > 2000 mg/kg (Rattus) OECD 402	LC50 4hr: 16.8 mg/l (Rattus) (OECD TG 403)

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

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation	Based on available data, the classification criteria are not met.	
Respiratory or skin sensitization	May cause an allergic skin reaction.	
Germ cell mutagenicity	Based on available data, the classification criteria are not met.	
Carcinogenicity	Based on available data, the classification criteria are not met. This product contains substances which in their raw state are powder form, however in this product they are in a non-respirable form. Inhalation of powder/dust particles is unlikely to occur from exposure to this product.	

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Carbon black 1333-86-4	A3	Group 2B	-	Х
Quartz 14808-60-7	A2	Group 1	Known	Х

 ACGIH (American Conference of Governmental Industrial Hygienists) A2 - Suspected Human Carcinogen A3 - Confirmed animal carcinogen with unknown relevance to humans IARC (International Agency for Research on Cancer) Group 1 - Carcinogenic to Humans Group 2B - Possibly Carcinogenic to Humans NTP (National Toxicology Program) Known - Known Carcinogen OSHA (Occupational Safety and Health Administration of the US Department of Labor) X - Present 			
Reproductive toxicity	Contains a known or suspected reproductive toxin. May cause harm to the unborn child.		
STOT - single exposure	Based on available data, the classification criteria are not met.		
STOT - repeated exposure	Based on available data, the classification criteria are not met.		
Target organ effects	Eyes, Respiratory system, Skin.		
Subchronic toxicity	No information available.		
Neurological effects	No information available.		
Other adverse effects	No information available.		
Aspiration hazard	Based on available data, the classification criteria are not met.		

12. Ecological Information

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Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Limestone	CE50 (72h) >200mg/L	CL50 (96h)>10000mg/L	-	CE50 (48h) >1000 mg/L
1317-65-3	Algae (Desmondesmus subspicatus)	(Oncorhynchus mykiss)		Daphnia Magna
Carbonic acid, calcium salt (1:1) 471-34-1	IC50 72H Algae >1000 mg/l	CL50 96H >1000 mg/l	-	EC50 48H Daphnia >1000 mg/l
Trimethoxyvinylsilane 2768-02-7	EC 50 (72h) > 957 mg/l (Desmodesmus	LC50 (96h) = 191 mg/l (Oncorhynchus mykiss)	-	EC50(48hr) 168.7mg/l (Daphnia magna)
	subspicatus) EU Method C.3			
Carbon black	>10000 mg/l	>1000 mg/l (Brachydanio	-	EC50: >5600mg/L (24h,
1333-86-4	(Desmodesmus	rerio) OCDE 203		Daphnia magna)
	subspicatus) OECD 202			
N-(3-(trimethoxysilyl)prop	-	LC50 (96H) =597 mg/L	-	EC50 (48h) =81mg/L
yl)ethylenediamine		(Danio rerio)Semi-static		Daphnia magna Static
1760-24-3				
Tin,	>2.0 mg/l	>2.0 mg/l	-	EC50 0.0036 mg/l 48Hr
dibutylbis(2,4-pentanedio				(Daphnia magna)
nato-O,O')-, (OC-6-11)-				
22673-19-4				

Persistence and degradability

No information available.

Component Information			
Trimethoxyvinylsilane (2768-02-7)			
Method	Exposure time	Value	Results
OECD Test No. 301F: Ready	28 days	BOD	51 % Not readily
Biodegradability: Manometric			biodegradable
Respirometry Test (TG 301 F)			-

Bioaccumulation

There is no data for this product.

Component Information

	Chemical name	Partition coefficient
	Limestone	0.9
	1317-65-3	
	Trimethoxyvinylsilane	1.1
	2768-02-7	
	N-(3-(trimethoxysilyl)propyl)ethylenediamine	-0.3
	1760-24-3	

Mobility in soil

No information available

Other adverse effects

No information available.

13. Disposal Considerations

Disposal methods

Waste from residues/unused Dispose of contents/container in accordance with local, regional, national, and international

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products	regulations as applicable.		
Contaminated packaging	Handle contaminated packages in the same way as the p	product itself.	
14. Transport Information			
Note:	Keep from freezing The information shown here, may not shipping description for the material The shipping descrip shipments only, and may not apply to shipments made in regulatory definition) 49 CFR 171.4(c) "Exceptions. Exce transportation is by vessel, the requirements of this subcl do not apply to non-bulk packagings transported by moto	otions shown here are non-bulk packages (s pt when all or part of t hapter specific to mar	for bulk see he ine pollutants
TDG UN number or ID number UN proper shipping name Transport hazard class(es) Packing group Special Provisions Description	UN3082 Environmentally hazardous substance, liquid, n.o.s. 9 III 16, 99 UN3082, Environmentally hazardous substance, liquid, n dibutylbis(2,4-pentanedionato-O,O')-, (OC-6-11)-), 9, III	.o.s.(Tin,	
IATA UN number or ID number UN proper shipping name Transport hazard class(es) Packing group ERG Code Special Provisions Description	UN3082 Environmentally hazardous substance, liquid, n.o.s. 9 III 9L A97, A158, A197 UN3082, Environmentally hazardous substance, liquid, n dibutylbis(2,4-pentanedionato-O,O')-, (OC-6-11)-), 9, III	.o.s.(Tin,	
IMDG UN number or ID number UN proper shipping name Transport hazard class(es) Packing group EmS-No. Special Provisions Description	UN3082 Environmentally hazardous substance, liquid, n.o.s. 9 III F-A, S-F 274, 335, 969 UN3082, Environmentally hazardous substance, liquid, n dibutylbis(2,4-pentanedionato-O,O')-, (OC-6-11)-), 9, III, I		

15. Regulatory Information

NPRI - National Pollutant Release Inventory

No component is listed on the NPRI above the threshold

European Union

SVHC: Substances of Very High Concern for Authorization:

This product contains one or more candidate substance(s) of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Chemical name	CAS No.	SVHC candidates
Tin,	22673-19-4	Х

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dibutylbis(2,4-pentanedionato-O,O')-,	
(OC-6-11)-	

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

This product does not contain Lead, Cadmium, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-Ethylhexyl) phthalate (DEHP), Benzyl butyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) above the regulated limit mentioned in this regulation. This document is based on the information given to us by our own suppliers at the date of this document.

International 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.

16. Other information, including date of preparation of the last revision

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

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA Ceiling	TWA (time-weighted average) Maximum limit value	STEL *	STEL (Short Term Exposure Limit) Skin designation	
Revision date	18-Oct-2023			
Revision Note	SDS sections upda	ated. 2. 5. 7. 11. 14.	15.	
Prepared By Product Sat		ety & Regulatory Affairs		

Disclaimer

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The Company adheres to a strict policy that applies to the use of any of its products in medical device applications. This policy can be found at

https://www.arkema.com/global/en/social-responsibility/innovation-and-sustainable-solutions/responsible-product-mana gement/medical-device-policy/ which is incorporated herein by reference and made a part hereof. Except as expressly authorized, the Company (i) has designated specific medical grade compositions for products used in medical device

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applications and Company products not so designated are not authorized for use in medical device applications and (ii) strictly prohibits the use of any of its products in medical device applications that are implanted in the body or in contact with bodily fluids or tissues for greater than 30 days. The Company does not design, manufacture and/or directly sell any medical devices. The Company does not co-design, or offer assistance to any purchaser of its products, in their design, manufacture and/or sale of products for medical devices. It is the sole responsibility of the manufacturer of medical devices to determine the suitability of all raw material, products and components, including any medical grade products, in order to ensure that the medical device is safe for end-use and complies with all applicable legal and regulatory requirements and to conduct all necessary tests and inspections.

End of Safety Data Sheet