

ULTRALEVEL ESL 2000 AGATE GREY
 Version 1

Revision Date 26-May-2016
 Supersedes Date: No information available

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

1.1. Product Identifier

Product Name ULTRALEVEL ESL 2000 AGATE GREY
Pure substance/mixture mixture

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 (Shanghai) Management Co., Ltd
 Building 1, No.968 Guanghai Road, Minhang District
 Shanghai, China
 Tel: 021-60763101
 Fax: 021-60763133

Manufacturer
 Bostik India Private Ltd
 124/1 & 124/2A
 Kachanayakanahalli
 Behind Bommasandra Indl.Area
 Off Hosur Road, Hennagara Post,
 Anekal Taluk
 Bangalore - 562106, Karnataka,
 INDIA
 Tel: 0091-80-27833520
 Fax: 00 91-80-27831324
 Email: Bostikinfo.India@bostik.com

Please refer to Section 16 for local affiliate addresses.

1.4. Emergency Telephone Number

Emergency Telephone 0532-8388 9090 (China only)
E-mail address SDS.AP@Bostik.com

Section 2: HAZARD IDENTIFICATION

2.1. Classification of the Substance or Mixture

Skin Corrosion/Irritation	Category 1 Sub-category B (8.2B)
Serious Eye Damage/Eye Irritation	Category 1 (8.3A)
Skin sensitization	Category 1A
Acute aquatic toxicity	Category 2 (9.1D)
Chronic aquatic toxicity	Category 2 (9.1B)

Classification in parenthesis is applicable for New Zealand Hazard Classification

ERMA Group No information available

2.2. Label Elements



Signal Word

DANGER

Hazard statements

H314 - Causes severe skin burns and eye damage

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H317 - May cause an allergic skin reaction
H411 - Toxic to aquatic life with long lasting effects

Precautionary Statements - Prevention

P260 - Do not breathe dust/fume/gas/mist/vapors/spray
P264 - Wash face, hands and any exposed skin thoroughly after handling
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P272 - Contaminated work clothing should not be allowed out of the workplace
P273 - Avoid release to the environment

Precautionary Statements - Response

P321 - Specific treatment (see supplemental first aid instructions on this label)

Inhalation

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P310 - Immediately call a POISON CENTER or doctor/physician

Skin

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

P363 - Wash contaminated clothing before reuse

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

Eyes

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor/physician

Ingestion

P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting

Spill

P391 - Collect spillage

Precautionary Statements - Storage

P405 - Store locked up

Precautionary Statements - Disposal

P501 - Dispose of contents/ container to an approved waste disposal plant

2.3. Other Hazards

- May be harmful if swallowed
- May be harmful in contact with skin

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-%
Bisphenol-A-Epichlorhydrin Epoxy resin	25068-38-6	20 - 30
Benzyl alcohol	100-51-6	5 - 10
Isophorone diamine	2855-13-2	1 - 5
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	68609-97-2	1 - 5
Trimethylhexamethylenediamine	25620-58-0	1 - 5
Bisphenol A	80-05-7	0.1 - 1

*** Any remaining ingredients are not hazardous

Section 4: FIRST AID MEASURES

4.1. Description of First Aid Measures

General Advice

Call 911 or emergency medical service. Remove and isolate contaminated clothing and shoes.

Inhalation

Move victim to fresh air. If breathing is irregular or stopped, administer artificial respiration. Administer oxygen if breathing is difficult.

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Skin Contact	For minor skin contact, avoid spreading material on unaffected skin.
Eye contact	In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
Ingestion	Do NOT induce vomiting. Drink plenty of water. Immediate medical attention is not required. Rinse mouth. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.
Self-protection of the First Aider	Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

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 Keep victim warm and quiet. Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.

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 Dry chemical, CO2 or water spray. Dry chemical, CO2, alcohol-resistant foam or water spray. Move containers from fire area if you can do it without risk. Dike fire control water for later disposal; do not scatter the material.

Unsuitable Extinguishing Media No information available.

5.2. Special Hazards Arising from the Substance or Mixture

Specific Hazards Arising from the Chemical Some are oxidizers and may ignite combustibles (wood, paper, oil, clothing, etc.).

5.3. Advice for Firefighters

Special Protective Equipment for Fire-fighters Wear self-contained breathing apparatus and protective suit.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Stop leak if you can do it without risk.

Other Information Do not get water inside containers or in contact with substance.

6.2. Environmental Precautions

Environmental Precautions Prevent entry into waterways, sewers, basements or confined areas.

6.3. Methods and Material for Containment and Cleaning up

Methods for Containment Absorb or cover with dry earth, sand or other non-combustible material and transfer to

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containers.

Methods for Cleaning up

Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. After cleaning, flush away traces with water. Prevent product from entering drains. Dam up.

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

Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required. Use with local exhaust ventilation. Do not breathe dust/fume/gas/mist/vapors/spray.

7.2. Conditions for Safe Storage, including any Incompatibilities

General Hygiene Considerations

When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Regular cleaning of equipment, work area and clothing is recommended.

Storage Conditions

Keep out of the reach of children. Keep container tightly closed. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers.

Incompatible Materials

No information available

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 Limits

Derived No Effect Level (DNEL)

No information available

Predicted No Effect Concentration (PNEC)

No information available

Other Information

No information available

8.2. Exposure Controls

Engineering Controls

Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment (PPE)

Eye/Face Protection

Wear safety glasses with side shields (or goggles).

Skin and Body Protection

Wear suitable protective clothing. No special technical protective measures are necessary under normal conditions.

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.

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Respiratory Protection	No protective equipment is needed under normal use conditions. Respiratory protection required in insufficiently ventilated working areas and during spraying. An air-fed mask, or for short periods of work, a combination of professional filter is recommended.
General Hygiene Considerations	Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Avoid contact with skin, eyes or clothing. Take off contaminated clothing and wash before reuse.

Environmental Exposure Controls Do not allow into any sewer, on the ground or into any body of water.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Appearance	Very viscous Liquid
Color	Grey
Odor	Slight
Odor Threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No information available	
Melting Point/Freezing Point	No information available	
Boiling Point	No information available	
Flash Point	No information available	
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	No information available	
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	

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	1.7 g/cm ³
Bulk Density	No information available
VOC	

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity None under normal use conditions.

10.2. Chemical Stability

10.3. Possibility of Hazardous Reactions

Possibility of Hazardous Reactions None under normal processing.

Hazardous Polymerization None under normal processing.

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10.4. Conditions to Avoid

Conditions to Avoid Heat, flames and sparks.

10.5. Incompatible Materials

Incompatible Materials No information available.

10.6. Hazardous Decomposition Products

Hazardous Decomposition Products None under normal use conditions.

Section 11: TOXICOLOGY INFORMATION

11.1. Information on Toxicological Effects

Acute Toxicity

Product Information Product does not present an acute toxicity hazard based on known or supplied information.

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

Numerical measures of toxicity

Unknown acute toxicity

0.00099997 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
67.52359997 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
99.02243997 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
99.02243997 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
14.78439997 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Bisphenol-A-Epichlorhydrin Epoxy resin 25068-38-6	= 11400 mg/kg (Rat)	-	-
Benzyl alcohol 100-51-6	= 1230 mg/kg (Rat)	= 2 g/kg (Rabbit)	= 8.8 mg/L (Rat) 4 h
Isophorone diamine 2855-13-2	= 1030 mg/kg (Rat)	-	-
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs. 68609-97-2	= 17100 mg/kg (Rat)	-	-
Trimethylhexamethylenediamine 25620-58-0	= 910 mg/kg (Rat)	-	-
Bisphenol A 80-05-7	= 3300 mg/kg (Rat)	= 3 mL/kg (Rabbit)	> 0.17 mg/L (Rat) 6 h

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

Skin Corrosion/Irritation No information available.
Serious Eye Damage/Eye Irritation No information available.
Sensitization No information available.
Germ Cell Mutagenicity No information available.
Reproductive Toxicity No information available.
STOT - Single Exposure No information available.
STOT - Repeated Exposure No information available.
Target Organ Effects Eyes, Lungs, Respiratory system.
Aspiration Hazard No information available.
Carcinogenicity No information available.

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans Group 3 - Not Classifiable as to Carcinogenicity in Humans

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Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity

Product Information

Toxic to aquatic life with long lasting effects.

Component Information

Data obtained on the component(s) include

Chemical Name	Algae/Aquatic Plants	Fish	Crustacea
Bisphenol-A-Epichlorhydrin Epoxy resin 25068-38-6	-	1.2 mg/l 96Hr (Oncorhynchus mykiss)	-
Benzyl alcohol 100-51-6	EC50 3 h = 35 mg/L (Anabaena variabilis)	LC50 96 h = 460 mg/L (Pimephales promelas static)	EC50 48 h = 230 mg/L (water flea)
Isophorone diamine 2855-13-2	EC50 72 h = 37 mg/L (Desmodesmus subspicatus)	LC50 96 h = 110 mg/L (Leuciscus idus semi-static)	EC50 24 h = 42 mg/L (Daphnia magna) EC50 48 h 14.6 - 21.5 mg/L (Daphnia magna semi-static)
Trimethylhexamethylenediamine 25620-58-0	EC50 72 h = 29.5 mg/L (Desmodesmus subspicatus)	CL50 (48h) 172 mg/L Fish (Leuciscus idus) Static	CE50 (24h) =1.5 mg/L Waterflea (Daphnia magna)
Bisphenol A 80-05-7	EC50 96 h = 2.5 mg/L (Pseudokirchneriella subcapitata)	LC50 96 h 2.28 mg/L (Pimephales promelas flow-through)	EC50 48 h = 10.2 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. Results of PBT and vPvB Assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

12.6. Other Adverse Effects

No information available.

Endocrine Disruptor Information

Chemical Name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Endocrine disrupting potential
Bisphenol-A-Epichlorhydrin Epoxy resin	Group III Chemical	-	-
Bisphenol A	Group I Chemical	High Exposure Concern	Industrial chemical

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste Treatment Methods

Waste from Residues/Unused Products

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

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Section 14: TRANSPORTATION INFORMATION

IMDG

UN/ID No UN1760
Proper Shipping Name Corrosive liquid, n.o.s. (Isophorone diamine, Trimethylhexamethylenediamine)
Hazard Class 8
Packing Group II
EmS-No F-A, S-B
Special Provisions 274
Limited Quantity (LQ) 1 L
Description UN1760, Corrosive liquid, n.o.s. (Isophorone diamine, Trimethylhexamethylenediamine), 8, II

IATA

UN/ID No UN1760
Proper Shipping Name Corrosive liquid, n.o.s. (Isophorone diamine, Trimethylhexamethylenediamine)
Hazard Class 8
Packing Group II
ERG Code 8L
Limited Quantity (LQ) 0.5 L
Special Provisions A3, A803
Description UN1760, Corrosive liquid, n.o.s. (Isophorone diamine, Trimethylhexamethylenediamine), 8, II

ADR

UN/ID No UN1760
Proper Shipping Name Corrosive liquid, n.o.s. (Isophorone diamine, Trimethylhexamethylenediamine), Environmentally Hazardous
Hazard Class 8
Hazard Labels 8
Packing Group II
Description UN1760, Corrosive liquid, n.o.s. (Isophorone diamine, Trimethylhexamethylenediamine), Environmentally Hazardous, 8, II, (E)
Environmental Hazard yes
Limited Quantity (LQ) 1 L
Special Provisions 274
Classification Code C9
Tunnel Restriction Code (E)

Section 15: REGULATORY INFORMATION

National Regulations

China

This product contains the following substance(s)

Chemical Name	Weight-%	China - Catalog of Hazardous Chemicals - Hazardous Chemicals
Isophorone diamine 2855-13-2	1 - 5	X
Trimethylhexamethylenediamine 25620-58-0	1 - 5	X

Japan

This product contains the following Class 1 and Class 2 Designated Chemical Substances per Japan PRTR Law.

Chemical Name	Weight-%	Japan - Pollutant Release Transfer Register (PRTR) - Class 1 Substances
Bisphenol A	0.1 - 1	X

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80-05-7		
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Korea

K-REACH/chemical control act(CCA)

This product contains the following substance(s)

Chemical Name	Weight-%	Korea - MOE - K-REACH/CCA - Toxic Substances	Korea - MOE - K-REACH/CCA - Prohibited Substances	Korea - MOE - K-REACH/CCA - Restricted Substances	Korea - MOE - Chemicals Control Act (CCA) - Accident Precaution Chemicals	Korea - MOE - K-REACH - Existing Substances Subject to Registration
Bisphenol-A-Epichlorhydrin Epoxy resin 25068-38-6	20 - 30					O
Bisphenol A 80-05-7	0.1 - 1					O

International Regulations

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

Local Contacts

Bostik Korea, Ltd.
6F, 21
Gukhoe-daero 62-gil Yeongdeungpo-gu
Seoul, 07236
Korea
Tel: +82-02-3703-6870
Fax: +82-02-3703-6850

Bostik-Nitta Co, Ltd
2-22,Futamata
Yao, Osaka
Japan
Tel: 81-72-948-8286
Fax: 81-72-948-8273

Bostik India Private Ltd
124/1 & 124/2A
Kachanayakanahalli
Behind Bommasandra Indl.Area
Off Hosur Road, Hennagara Post,
Anekal Taluk
Bangalore - 562106, Karnataka,
INDIA
Tel: 0091-80-27833520
Fax: 00 91-80-27831324
Email: Bostikinfo.India@bostik.com

Bostik Findley (Malaysia) Sdn. Bhd
Lot 112 & 113,
Kawasan Perindustrian senawang,
seremban, negeri sembilan, Malaysia
Tel: 606-6789788
Fax: 606-6789766

Bostik Findley (Malaysia) S/B
(Singapore Branch)
2 Jurong East
Street 21 #02-184
IMM Building
Singapore 609601
Tel: 65-6863-4088
Fax: 65-6863-4077

Bostik (Thailand) Co., Ltd
1/32 Bang-na Thani
Tower 16th A Foolr.
Soi Bangna-Trad 34,
Bangna-Trad rd.
Bang-na, Bangkok
Tel: 02-361 6460-7
Fax: 02-361 6469

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Bostik Philippines, Inc.
35/F Raffles Corporate Center,
F. Ortigas Jr. Road
Ortigas Business Center,
Pasig city, Philippines
Tel: 632-900-5656
Fax: 632-900-5622
Bostik Australia Pty Ltd
51-71 High street,
Thomastown Victoria, Australia
Tel: 613 9279-9333
Fax: 613 9279-9342
24-hr Emergency: 1800 033 111
Bostik New Zealand Limited
19 Eastern Hutt Road Wingate,
Lower Hutt, New Zealand
Tel: 04-567 5119
Fax: 04-567 5412
24-hr Emergency: 0800 243 622

Bostik Indonesia
Setiabudi Atrium Building,
Level 2, Suite 203 A
Jl. HR Rasuna Said
Jakarta Indonesia 12920
Tel: 62 21 521 0404
Fax: 62 21 521 0554
Jiangsu Bositk Adhesive Co.,Ltd
No.15-9, Xinggang Road, Changshu
Enconomic Development Zone
Jiangsu Province 215536
Tel: 0086-512-52266000
Fax: 0086-512-52266020

Bostik Vietnam Company Limited
10 Doc Lap Avenue,
VSIP 1. Thuan An District,
BinhDuong Province. Viet Nam.
Tel: 84 650 3765105
Fax: 84 650 3765109

Bostik Findley (China) Adhesive Ltd
No.75, Xin Zhuang 2 Road, Yong He
District, GETDD
Guangzhou, China 511356
Tel: 020-8297 5266
Fax: 020-8297 5277

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 26-May-2016

Revision Note Not applicable.

Training Advice 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