* TECHNOLOGY

SAFETY DATA SHEET EPO-TEK 353ND-LH Ultra Part A

1. Identification		
Product identifier		
Product name	EPO-TEK 353ND-LH Ultra Part A	
Product number	353ND-LH ULTRA/A	
Recommended use of the che	emical and restrictions on use	
Application	Adhesive.	
Details of the supplier of the safety data sheet		
Supplier	Epoxy Technology, Inc. 14 Fortune Drive Billerica, MA 01821 USA (978) 667-3805 (978) 663-9782 www.epotek.com, SDS@epotek.com	
Emergency telephone number	r	
Emergency telephone	+1 (800) 255-3924, +1 (813) 248-0585	
2. Hazard(s) identification		
Classification of the substance	e or mixture	
Physical hazards	Not Classified	
Health hazards	Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 Skin Sens. 1 - H317	
Environmental hazards	Aquatic Chronic 2 - H411	
Label elements		
Pictogram		
Signal word	Warning	
Hazard statements	H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H411 Toxic to aquatic life with long lasting effects.	
Precautionary statements	 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P302+P352 If on skin: Wash with plenty of water. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P333+P313 If skin irritation or rash occurs: Get medical advice/ attention. P337+P313 If eye irritation persists: Get medical advice/ attention. P501 Dispose of contents/ container in accordance with national regulations. 	

Contains Epoxy Phenol Novolac Other hazards Contains epoxy constituents. May produce an allergic reaction. Hazards not otherwise Contains epoxy constituents. May produce an allergic reaction. classified (HNOC) Second secon

Epoxy Phenol Novolac	60-100%
CAS number: 9003-36-5	
Olassi Fastian	
Classification	
Skin Irrit. 2 - H315	
Eye Irrit. 2 - H319	
Skin Sens. 1 - H317	
Aquatic Chronic 2 - H411	

The Full Text for all Hazard Statements are Displayed in Section 16.		
4. First-aid measures		
Description of first aid mea	asures	
General information	Move affected person to fresh air at once. Get medical attention if any discomfort continues.	
Inhalation	Move affected person to fresh air at once. Keep affected person warm and at rest. Get medical attention immediately.	
Ingestion	Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention immediately.	
Skin Contact	Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.	
Eye contact	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.	
Most important symptoms and effects, both acute and delayed		
Inhalation	Inhalation of dust during cutting, grinding or sanding operations involving this product may cause irritation of the respiratory tract. Gas or vapor in high concentrations may irritate the respiratory system.	
Ingestion	May cause discomfort if swallowed.	
Skin contact	Causes skin irritation. May cause sensitisation by skin contact.	
Eye contact	Causes serious eye irritation.	
Indication of immediate medical attention and special treatment needed		
Notes for the doctor	Treat symptomatically.	
5. Fire-fighting measures		
Extinguishing media		

Suitable extinguishing media Foam. Powder. Water spray, fog or mist.

Special hazards arising from the substance or mixture

Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Carbon monoxide (CO). Carbon dioxide (CO2).	
Advice for firefighters		
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.	
6. Accidental release measure	IS	
Personal precautions, protecti	ve equipment and emergency procedures	
Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet.	
Environmental precautions		
Environmental precautions	Do not discharge into drains or watercourses or onto the ground. Avoid release to the environment.	
Methods and material for cont	ainment and cleaning up	
Methods for cleaning up	Provide adequate ventilation. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Absorb in vermiculite, dry sand or earth and place into containers.	
Reference to other sections	For personal protection, see Section 8.	
7. Handling and storage		
Precautions for safe handling		
Usage precautions	Handle all packages and containers carefully to minimize spills. Wear protective clothing as described in Section 8 of this safety data sheet. Avoid contact with skin and eyes.	
Advice on general occupational hygiene	Do not eat, drink or smoke when using this product. Wash promptly if skin becomes contaminated. Wash after use and before eating, smoking and using the toilet. Wash contaminated clothing before reuse. Use appropriate skin cream to prevent drying of skin.	
Conditions for safe storage, in	cluding any incompatibilities	
Storage precautions	Store at room temperature. Keep container tightly sealed when not in use.	
Specific end uses(s)		
Specific end use(s)	The identified uses for this product are detailed in Section 1.2.	
8. Exposure Controls/persona	protection	
Ingredient comments	No exposure limits known for ingredient(s).	
Exposure controls		
Protective equipment		
Appropriate engineering controls	Provide adequate general and local exhaust ventilation.	
Eye/face protection	Wear tight-fitting, chemical splash goggles or face shield.	
Hand protection	It is recommended that chemical-resistant, impervious gloves are worn.	

Other skin and body protection	Wear appropriate clothing to prevent any possibility of skin contact.	
Hygiene measures	Do not smoke in work area. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap and water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.	
Respiratory protection	If ventilation is inadequate, suitable respiratory protection must be worn.	
9. Physical and Chemical Pro	perties	
Information on basic physical	and chemical properties	
Appearance	Clear liquid.	
Odor	Mild.	
Flash point	> 93°C	
Evaporation rate	<buac< th=""></buac<>	
Solubility(ies)	Slightly soluble in water.	
Other information	None.	
10. Stability and reactivity		
Reactivity	The following materials may react with the product: Strong oxidizing agents.	
Stability	Stable at normal ambient temperatures and when used as recommended.	
Possibility of hazardous reactions	Will not polymerize.	
Conditions to avoid	Avoid excessive heat for prolonged periods of time.	
Materials to avoid	Strong oxidizing agents.	
Hazardous decomposition products	Thermal decomposition or combustion products may include the following substances: Carbon monoxide (CO). Carbon dioxide (CO2).	
11. Toxicological information		
Information on toxicological e	ffects	
Inhalation	Inhalation of dust during cutting, grinding or sanding operations involving this product may cause irritation of the respiratory tract. Gas or vapor in high concentrations may irritate the	

12. Ecological Information	
Eye contact	Causes serious eye irritation.
Eve contect	
Skin Contact	Causes skin irritation. May cause sensitisation by skin contact.
Ingestion	May cause discomfort if swallowed.
	respiratory system.

Ecotoxicity

Toxic to aquatic life with long lasting effects.

Toxicity

Acute toxicity - fish	Not available.
Persistence and degradability	
Persistence and degradability	The product is biodegradable.
Bioaccumulative potential	
Bio-Accumulative Potential	Bioaccumulation is unlikely to be significant because of the low water-solubility of this product.
Mobility in soil	
Mobility	Mobile.
Other adverse effects	
Other adverse effects	Not known.
13. Disposal considerations	
Waste treatment methods	
Disposal methods	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.
14. Transport information	
UN Number	
UN No. (DOT)	3082
UN No. (TDG)	3082
UN No. (IMDG)	3082
UN No. (ICAO)	3082
UN proper shipping name	
Proper shipping name (DOT)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Epoxy Phenol Novolac)
Proper shipping name (TDG)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Epoxy Phenol Novolac)
Proper shipping name (IMDG)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Epoxy Phenol Novolac)
Proper shipping name (ICAO)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Epoxy Phenol Novolac)
Transport hazard class(es)	
TDG class	9
TDG label	9
IMDG Class	9
ICAO class/division	9
Transport labels	

Packing group

DOT pack group	111
TDG Packing Group	
IMDG packing group	
ICAO packing group	Ш

Environmental hazards

Environmentally Hazardous Substance



Special precautions for user

EmS	F-A, S-F

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

15. Regulatory information		

Regulatory References Proprietary information protected pursuant to WTO's Agreement on Trade-Related Aspects of Intellectual Property Rights (TRIPS), Section 7, Art. 39.

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities None of the ingredients are listed.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

None of the ingredients are listed.

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

None of the ingredients are listed.

SARA 313 Emission Reporting

None of the ingredients are listed.

CAA Accidental Release Prevention

None of the ingredients are listed.

OSHA Highly Hazardous Chemicals

None of the ingredients are listed.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins None of the ingredients are listed.

California Air Toxics "Hot Spots" (A-I)

None of the ingredients are listed.

California Air Toxics "Hot Spots" (A-II) None of the ingredients are listed.

Massachusetts "Right To Know" List None of the ingredients are listed.

Rhode Island "Right To Know" List None of the ingredients are listed.

Minnesota "Right To Know" List None of the ingredients are listed.

New Jersey "Right To Know" List None of the ingredients are listed.

Pennsylvania "Right To Know" List None of the ingredients are listed.

EU - EINECS/ELINCS None of the ingredients are listed.

Canada - DSL/NDSL All the ingredients are listed or exempt.

US - TSCA All the ingredients are listed or exempt.

US - TSCA 12(b) Export Notification None of the ingredients are listed.

Australia - AICS All the ingredients are listed or exempt.

Japan - MITI All the ingredients are listed or exempt.

Korea - KECI All the ingredients are listed or exempt.

China - IECSC All the ingredients are listed or exempt.

Philippines - PICCS

All the ingredients are listed or exempt.

16. Other information

Revision date	2/16/2016
Revision	1
Hazard statements in full	H315 Causes skin irritation.H317 May cause an allergic skin reaction.H319 Causes serious eye irritation.H411 Toxic to aquatic life with long lasting effects.

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Epoxy Technology, Inc. gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Epoxy Technology, Inc. accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.

* TECHNOLOGY

SAFETY DATA SHEET EPO-TEK 353ND-LH Ultra Part B

1. Identification		
Product identifier		
Product name	EPO-TEK 353ND-LH Ultra Part B	
Product number	353ND-LH ULTRA/B	
Recommended use of the ch	emical and restrictions on use	
Application	Adhesive.	
Details of the supplier of the s	safety data sheet	
Supplier	Epoxy Technology, Inc. 14 Fortune Drive Billerica, MA 01821 USA (978) 667-3805 (978) 663-9782 www.epotek.com, SDS@epotek.com	
Emergency telephone number	er	
Emergency telephone	+1 (800) 255-3924, +1 (813) 248-0585	
2. Hazard(s) identification		
Classification of the substance	ce or mixture	
Physical hazards	Not Classified	
Health hazards	Acute Tox. 4 - H302 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Repr. 1B - H360D	
Environmental hazards	Not Classified	
Label elements		
Pictogram		
Signal word	Danger	
Hazard statements	H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H360D May damage the unborn child.	
Precautionary statements	 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P501 Dispose of contents/ container in accordance with national regulations. 	

60-100%

30-60%

Contains

Substituted Imidazole Blend, Imidazole

3. Composition/information on ingredients

Mixtures

Substituted Imidazole Blend

CAS number: Proprietary

Classification

Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318

Imidazole

CAS number: 288-32-4

Classification

Acute Tox. 4 - H302 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Repr. 1B - H360D

The Full Text for all Hazard Statements are Displayed in Section 16.

4.	First-aid	measures
	i not ala	modouroo

Description of first aid measures

Beeenpach of mot and model	
Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention if symptoms are severe or persist.
Ingestion	Rinse nose and mouth with water. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Give plenty of water to drink. Do not induce vomiting unless under the direction of medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if any discomfort continues.
Skin Contact	Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.
Eye contact	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.
Most important symptoms an	d effects, both acute and delayed
Inhalation	Inhalation of dust during cutting, grinding or sanding operations involving this product may cause irritation of the respiratory tract. Gas or vapor in high concentrations may irritate the respiratory system.
Ingestion	May cause stomach pain or vomiting. May cause chemical burns in mouth, esophagus and stomach.
Skin contact	Causes severe burns.
Eye contact	Causes serious eye damage.
Indication of immediate medi	cal attention and special treatment needed

Notes for the doctor	Treat symptomatically.
5. Fire-fighting measures	
Extinguishing media	
Suitable extinguishing media	Dry chemicals. Foam. Carbon dioxide (CO2).
Special hazards arising from the	ne substance or mixture
Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Carbon monoxide (CO). Carbon dioxide (CO2). Oxides of nitrogen.
Advice for firefighters	
Protective actions during firefighting	Avoid breathing fire gases or vapors.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.
6. Accidental release measure	S
Personal precautions, protectiv	ve equipment and emergency procedures
Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet. Avoid contact with skin and eyes. Keep unnecessary and unprotected personnel away from the spillage.
Environmental precautions	
Environmental precautions	Avoid release to the environment.
Methods and material for conta	ainment and cleaning up
Methods for cleaning up	Stop leak if safe to do so. Eliminate all sources of ignition. Absorb spillage with sand or other inert absorbent. Collect and place in suitable waste disposal containers and seal securely. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.
Reference to other sections	For personal protection, see Section 8.
7. Handling and storage	
Precautions for safe handling	
Usage precautions	Handle all packages and containers carefully to minimize spills. Wear protective clothing as described in Section 8 of this safety data sheet. Avoid contact with skin and eyes.
Advice on general occupational hygiene	Provide eyewash station and safety shower. Do not eat, drink or smoke when using this product. Wash promptly if skin becomes contaminated. Wash after use and before eating, smoking and using the toilet. Wash contaminated clothing before reuse. Use appropriate skin cream to prevent drying of skin.
Conditions for safe storage, inc	cluding any incompatibilities
Storage precautions	Store at room temperature. Keep container tightly sealed when not in use.
Specific end uses(s)	
Specific end use(s)	The identified uses for this product are detailed in Section 1.2.
8. Exposure Controls/personal	protection
Ingredient comments	No exposure limits known for ingredient(s).
Exposure controls	

Protective equipment

9. Physical and Chemical Properties

Appropriate engineering controls	Provide adequate general and local exhaust ventilation.
Eye/face protection	Wear tight-fitting, chemical splash goggles or face shield.
Hand protection	It is recommended that chemical-resistant, impervious gloves are worn.
Other skin and body protection	Wear appropriate clothing to prevent any possibility of skin contact.
Hygiene measures	Do not smoke in work area. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly with soap and water if skin becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.
Respiratory protection	If ventilation is inadequate, suitable respiratory protection must be worn.

9. Physical and Chemical Properties		
Information on basic physical	and chemical properties	
Appearance	Liquid.	
Color	Amber.	
Odor	Slight.	
Flash point	> 93°C	
Evaporation rate	<buac< th=""></buac<>	
Vapor density	>1	
Solubility(ies)	Slightly soluble in water.	
Other information	None.	
10. Stability and reactivity		
Reactivity	The following materials may react with the product: Acids. Alkalis. Strong oxidizing agents. Strong reducing agents.	
Stability	Stable at normal ambient temperatures and when used as recommended.	
Possibility of hazardous reactions	Will not polymerize.	
Conditions to avoid	Avoid excessive heat for prolonged periods of time.	
Materials to avoid	Strong oxidizing agents. Strong reducing agents. Strong acids. Strong alkalis.	
Hazardous decomposition products	Thermal decomposition or combustion products may include the following substances: Carbon monoxide (CO). Carbon dioxide (CO2). Oxides of nitrogen.	
11. Toxicological information		

Information on toxicological effects

Inhalation	Gas or vapor in high concentrations may irritate the respiratory system.
Ingestion	Harmful if swallowed. May cause chemical burns in mouth, esophagus and stomach. May cause stomach pain or vomiting.
Skin Contact	Causes severe burns.
Eye contact	Causes serious eye damage.
12. Ecological Information	
Toxicity	
Acute toxicity - fish	Not available.
Persistence and degradability	
Persistence and degradability	The product is moderately biodegradable.
Bioaccumulative potential	
Bio-Accumulative Potential	The product contains potentially bioaccumulating substances.
Mobility in soil	
Mobility	Semi-mobile.
Other adverse effects	
Other adverse effects	Not known.
13. Disposal considerations	
Waste treatment methods	
Disposal methods	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.
14. Transport information	
UN Number	
UN No. (DOT)	3267
UN No. (TDG)	3267
UN No. (IMDG)	3267
UN No. (ICAO)	3267
UN proper shipping name	
Proper shipping name (DOT)	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (CONTAINS Imidazole)
Proper shipping name (TDG)	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (CONTAINS Imidazole)
Proper shipping name (IMDG)	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (CONTAINS Imidazole)
Proper shipping name (ICAO)	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (CONTAINS Imidazole)
Transport hazard class(es)	

DOT hazard label	Corrosive
TDG class	8
TDG label	8
IMDG Class	8
ICAO class/division	8
Transport labels	



Packing group	
DOT pack group	III
TDG Packing Group	III
IMDG packing group	III
ICAO packing group	III
Environmental hazards	
Environmentally Hazardous Su No.	bstance
Special precautions for user	
EmS	F-A, S-B
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.

15. Regulatory information	
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Regulatory References

Proprietary information protected pursuant to WTO's Agreement on Trade-Related Aspects of Intellectual Property Rights (TRIPS), Section 7, Art. 39.

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities None of the ingredients are required to be listed.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

None of the ingredients are required to be listed.

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

None of the ingredients are required to be listed.

SARA 313 Emission Reporting

None of the ingredients are required to be listed.

CAA Accidental Release Prevention

None of the ingredients are required to be listed.

OSHA Highly Hazardous Chemicals

None of the ingredients are required to be listed.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins None of the ingredients are required to be listed.

California Air Toxics "Hot Spots" (A-I) None of the ingredients are required to be listed.

California Air Toxics "Hot Spots" (A-II) None of the ingredients are required to be listed.

Massachusetts "Right To Know" List None of the ingredients are required to be listed.

Rhode Island "Right To Know" List None of the ingredients are required to be listed.

Minnesota "Right To Know" List None of the ingredients are required to be listed.

New Jersey "Right To Know" List None of the ingredients are required to be listed.

Pennsylvania "Right To Know" List None of the ingredients are required to be listed.

EU - EINECS/ELINCS All the ingredients are listed or exempt.

Canada - DSL/NDSL All the ingredients are listed or exempt.

US - TSCA All the ingredients are listed or exempt.

US - TSCA 12(b) Export Notification None of the ingredients are listed.

Australia - AICS All the ingredients are listed or exempt.

Japan - MITI All the ingredients are listed or exempt.

Korea - KECI All the ingredients are listed or exempt.

China - IECSC All the ingredients are listed or exempt.

Philippines - PICCS All the ingredients are listed or exempt.

16. Other information

Revision date

2/16/2016

Revision	1
Hazard statements in full	H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H318 Causes serious eye damage. H360D May damage the unborn child.

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Epoxy Technology, Inc. gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Epoxy Technology, Inc. accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.