

EP 990 HS Part A (High Solids)

1 Identification

GHS Product Identifier

EP 990 HS Part A

Other means of identification

Epoxy Novolac Part A

Recommended use of the chemical and restriction on use

Component Product. Must be used with Part B to complete reaction for urethane formation.

Supplier's details

Lava-Liner, Ltd. 1550 G Tiburon Blvd. Suite 418 Tiburon, CA 94920 Ph. 415-829-9114 Fax: 415-829-9203 www.lava-liner.com

Emergency phone number

Chemtrec 800-424-9300

2 Hazard(s) identification

Classification of the substance or mixture

Skin Corrosion/Irritation	Category 2	Causes skin irritation.
Serious Eye Damage/Eye Irritation	Category 2B	Causes eye irritation
Skin Sensitization	Category 1B	May cause an allergic skin reaction point
Aquatic Toxicity (Acute)	Category 2	Toxic to aquatic life
Aquatic Toxicity (Chronic)	Category 2	Pollution Toxic to aquatic life with long lasting effect

GHS label elements

Warning



Causes skin and eye irritation

May cause an allergic skin reaction

Toxic to aquatic life

Toxic to aquatic life with long lasting effects

Avoid breathing dust/fume/gas/mist/vapours/spray.

Do not get in eyes, on skin, or on clothing.

Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

Call a POISON CENTER/doctor/physician

If skin irritation occurs: Get medical advice/attention.

IF eye irritation persists: Get medical advice/attention.

Take off contaminated clothing.

Take off contaminated clothing and wash it before reuse.

Collect spillage.

Other hazards which do not result in classification

GHS Storage and Disposal Phrases P501 - Dispose of contents/container to local, state, and federal authority requirements. Potential Health Effects (Acute and Chronic) Causes skin and eye irritation. May cause skin sensitization, an allergic reaction, which becomes evident on reexposure to this material. Inhalation May cause respiratory irritation. Skin Contact Causes skin irritation. May cause skin sensitization, an allergic reaction, which becomes evident on reexposure to this material. **Eye Contact** Causes eye irritation. Ingestion May be harmful if swallowed. **Recommended Exposure Limits** Not established. Medical Conditions Generally Aggravated By Exposure Skin disorders, Respiratory disorders, Eye disorders, Skin Allergies.

3 Composition/information on ingredients

Description	CAS Number	EINECS Number	%	Note
Phenol-Formaldehyde Polymer	28064-14-4		60 - 80	
Talcum	14807-96-6		10 - 20	
Benzyl Alcohol	100-51-6		1 - 10	
Nonylphenol	84852-15-3		1 - 10	
Silicon dioxide, chemically prepared	112945-52-5		0 - 3	
titanium(IV) oxide	13463-67-7	236-675-5	0 - 10	
C.I. Pigment Yellow 42	51274-00-1		0 - 10	
iron(III) oxide	1309-37-1		0 - 10	
Carbon Black	1333-86-4	231-153-3	0 - 10	
Bisphenol A epoxy resin	25068-38-6		0 - 10	

4 First-aid measures

Description of necessary first-aid measures

In Case of Inhalation

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If experiencing respiratory symptoms: Get medical attention immediately.

In Case of Skin Contact

In case of contact, immediately wash skin with soap and copious amounts of water. Remove contaminated clothing and shoes. Get medical attention if irritation develops or persists.

In Case of Eye Contact

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

In Case of Ingestion

If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately. Do not induce vomiting. For further assistance, contact your local Poison Control Center.

Most important symptoms/effects, acute and delayed

May cause skin, eye, and respiratory irritation. May cause allergic skin reaction.

5 Fire-fighting measures

Suitable extinguishing media

Fire Fighting Instructions

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Suitable Extinguishing Media

Dry chemical, CO2, water spray or regular foam.

Precautions

Do not use a direct water stream, which may spread fire.

Specific hazards arising from the chemical

In a fire, product may produce the following: Carbon monoxide, Carbon dioxide, Phenolics.

Special protective actions for fire-fighters

Do not use a direct water stream, which may spread fire.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves. Where splashing is possible, full chemically resistant protective clothing, and boots are required.

Environmental precautions

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

Methods and materials for containment and cleaning up

Absorb with sand or vermiculite and place in closed containers for disposal. Ventilate the area.

7 Handling and storage

Precautions for safe handling

Provide adequate ventilation. Do not breathe vapor. Do not get in eyes, on skin or on clothing.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

8 Exposure controls/personal protection

Control parameters

Hazardous Components	CAS #	OSHA PEL	ACGIH TLV	Other Limits
Phenol-Formaldehyde Polymer	28064-14-4	No Data	No Data	No Data
Talcum	14807-96-6	706 ppm/20 mppcf	2 mg/m3 (non-asbestos)	No Data

Benzenemethanol (Benzyl Alcohol)	100-51-6	No Data	No Data	No Data
Phenol, 4-nonyl-, branched	84852-15-3	No Data	No Data	No Data
Silica, amorphous treated	112945-52-5	No Data	No Data	No Data
Titanium dioxide	13463-67-7	15 (dust) mg/m3	10 mg/m3	No Data
C.I. Pigment Yellow 42	51274-00-1	No Data	No Data	No Data
Iron oxide (Fe2O3)	1309-37-1	10 mg/m3	5 mg/m3 (dust & fume)	No Data
Carbon black	1333-86-4	3.5 mg/m3	3.5 mg/m3	No Data
Bisphenol-a based epoxy resin	25068-38-6	No Data	No Data	No Data

Appropriate engineering controls

Good general ventilation should be sufficient to control airborne levels. Safety shower and eye bath.

Individual protection measures

Protective Equipment Summary - Hazard Label Information:

Neoprene gloves Safety glasses, or goggles. Impervious clothing. Chemical resistant boots

Respiratory Equipment (Specify Type)

Normally when good engineering controls are used, no respiratory protection is needed. However, if cured product is abraded by sanding or grinding use a NIOSH approved air-purifying respirator. Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators.

Eye Protection

Safety glasses, or goggles.

Protective Gloves

Nitrile rubber and Neoprene are recommended.

Other Protective Clothing

Where splashing is possible, full chemically resistant protective clothing, safety glasses or face shield and boots are required.

9 Physical and chemical properties

Physical and chemical properties

Physical States:	Liquid
ODOR:	Slight Amine
Melting Point:	NE
Boiling Point:	NE
Decomposition Temperature:	NE
Autoignition Pt:	No Data
Flash Pt:	>200°C
Explosive Limits:	LEL: NE UEL: NE
Specific Gravity (Water = 1): Density:	1.35
Vapor Pressure (vs. Air or mm Hg):	11.26 lb/gal
Vapor Density (vs. Air = 1):	NE
Evaporation Rate:	NE
Solubility in Water:	NP
Percent Volatile:	0% by Volume

10 Stability and reactivity

Reactivity

Avoid: acids, alkalis, oxidizing agents.

Chemical stability

Will not undergo hazardous polymerization in normal storage conditions.

Possibility of hazardous reactions

Will Not Occur

Incompatible materials

Avoid strong acids, bases, and oxidizing agents. Avoid contact with amines.

Hazardous decomposition products

Thermal decomposition may produce smoke, carbon monoxide, carbon dioxide, and phenolics.

11 Toxicological information

Toxicological (health) effects

Contains: Phenol-Formaldehyde Polymer (28064-14-4) Oral LD50 >2000 mg/kg Species:Rat/ adult Dermal LD50>2000 mg/kg Species:Rabbit/ adult.

Information on the likely routes of exposure

Skin - Irritating to eyes. Eyes - Irritating

Symptoms related to the physical, chemical and toxicological characteristics

Skin Irritation. Irritating to eyes. Species: Rabbit.

Delayed and immediate effects and also chronic effects from short and long term exposure

No Data Available

12 Ecological information

Persistence and degradability

Not readily biodegradable.

Bioaccumulative potential

No data available.

Mobility in soil

Not Reported, unknown.

Other adverse effects

Avoid release to the environment. May be hazardous to the environment if released in large quantities.

13 Disposal considerations

Disposal methods

Incinerate or dispose of unused material, residues and containers in a licensed facility in accordance with all applicable local, state and federal regulations. Do not discharge substance/product into sewage system.

14 Transport information

UN Number

UN3082

UN Proper Shipping Name

 (Non-Bulk)
 Not Regulated.

 (Bulk)
 Environmentally hazardous substance, liquid, n.o.s. (EPOXY NOVOLAC RESIN) MARINE POLLUTANT.

NOTE: Marine Pollutants - DOT requirements specific to Marine Pollutants do not apply to non-bulk packagings transported by motor vehicles, rail cars or aircraft.

Transport hazard class(es)

CLASS 9

Packing group, if applicable

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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

DOT / AIR TRANSPORT (ICAO/IATA)

Marine Pollutants - DOT requirements specific to Marine Pollutants do not apply to non-bulk packagings transported by motor vehicles, rail cars or aircraft.

MARINE TRANSPORT (IMDG/IMO)

IMDG/IMO Shipping Name

Environmentally hazardous substance, liquid, n.o.s. (EPOXY NOVOLAC

RESIN) MARINE POLLUTANT.

Note: The presence of a shipping description for a particular mode of transport(ocean, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. Shipment compliance is the responsibility of the person offering the product for transport.

IMDG EMS Number: FA,SF Marine Pollutant: Yes

15 Regulatory information

Safety, health and environmental regulations specific for the product in question

Hazardous Components	CAS # Sec.	302 (EHS)	Sec.304 RQ	Sec.313 (TRI)	Sec.110
Phenol-Formaldehyde Polymer	28064-14-4	No	No	No	No
Talcum	14807-96-6	No	No	No	No
Benzenemethanol	100-51-6	No	No	No	No
Phenol, 4-nonyl-, branched	84852-15-3	No	No	No	No
Silica, amorphous treated	112945-52-5	No	No	No	No
Titanium dioxide	13463-67-7	No	No	No	No
C.I. Pigment Yellow 42	51274-00-1	No	No	No	No
Iron oxide (Fe2O3)	1309-37-1	No	No	No	No
Carbon black	1333-86-4	No	No	No	No
Bisphenol-a based epoxy resin	25068-38-6	No	No	No	No

16 Other information

Other information

Abbreviations:

CA=CIRCA NA=NOT AVAILABLE NE=NOT ESTABLISHED NR=NOT REGULATED NP= NOT APPLICABLE PR=PROPRIETARY TS=TRADE SECRET ?=UNKNOWN.

Disclaimer:

Some of the information presented and conclusions drawn herein are from sources other than direct test data on the product itself. The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. If the product is used as a component in another product other than that provided by Lava-Liner, Ltd. this SDS information may not be applicable. This SDS has been prepared in accordance with the requirements of the OSHA Hazard Communication Standard (29 CFR 1910.1200).



EP 990 HS Part B (High Solids)

1 Identification

GHS Product Identifier

EP 990 HS Part B

Other means of identification

Epoxy Hardener for Novolac Epoxy - Part B

Recommended use of the chemical and restriction on use

Chemical REsistant High Solids Epoxy Component Product. Must be used with Part A to complete reaction for urethane formation. See Technical Data Sheet from Manufacturer for Chemical Properties.

Supplier's details

Lava-Liner, Ltd. 1550 G Tiburon Blvd. Suite 418 Tiburon, CA 94920 Ph. 415-829-9114 Fax: 415-829-9203 www.lava-liner.com

Emergency phone number

Chemtrec 800-424-9300

2 Hazard(s) identification

Classification of the substance or mixture

Classification	Category	GHS Hazard Phrase
Skin Sensitization	Category 1A	May cause an allergic skin reaction
Skin Corrosion/Irritation	Category 1B	Causes severe skin burns and eye damage
Serious Eye Damage/Eye Irritation	Category 1	Causes serious eye damage
Acute Toxicity: Oral	Category 4	Harmful if swallowed
Toxic To Reproduction,	Category 2	Suspected of damaging fertility or the unborn child
Aquatic Toxicity (Acute),	Category 1	Very toxic to aquatic life
Aquatic Toxicity (Chronic),	Category 1	Very toxic to aquatic life with long lasting effects

GHS label elements



Causes severe skin burns and eye damage

May cause an allergic skin reaction

Causes serious eye damage

Suspected of damaging fertility. Suspected of damaging the unborn child.

Very toxic to aquatic life

Very toxic to aquatic life with long lasting effects

Do not handle until all safety precautions have been read and understood.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection.

Use personal protective equipment as required.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN: Wash with plenty of water/soap

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

IF exposed or concerned: Get medical advice/ attention.

Get medical advice/attention if you feel unwell.

Take off immediately all contaminated clothing.

Take off contaminated clothing and wash it before reuse.

Collect spillage.

Dispose of contents/container to local, state adn federal authority requirements.

Other hazards which do not result in classification

Inhalation: Vapors are irritating to the respiratory system, may cause throat pain and cough.

Ingestion: Harmful if swallowed. This product may produce corrosive damage to the gastrointestinal tract if it is swallowed. Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly the digestive tract.

3 Composition/information on ingredients

Description	CAS Number	EINECS Number	%	Note
Benzyl Alcohol	100-51-6		25 - 35	
Formaldehyde, polymer with benzenamine,hydrogenated	135108-88-2		25 - 35	
Nonylphenol	84852-15-3		10 - 20	
Aliphatic Amine			1 - 5	
DIETHYLENETRIAMINE(DETA)	111-40-0		1 - 5	
Cyclohexylamine, 4,4'-methylenebis-	1761-71-3		1 - 5	
Organic Acid			1 - 5	
PHENOL, 4,4'-(1-METHYLETHYLIDENE)BIS-	80-05-7		1 - 5	
2,4,6-tris(dimethylaminomethyl)phenol	90-72-2		1 - 5	

4 First-aid measures

Description of necessary first-aid measures

In Case of Inhalation

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If experiencing respiratory symptoms: Get medical attention immediately. In Case of Skin Contact

In case of contact, immediately wash skin with soap and copious amounts of water. Remove contaminated clothing and shoes. Get medical attention if irritation develops or persists.

In Case of Eye Contact

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Get medical attention immediately.

In Case of Ingestion

If swallowed, wash out mouth with water provided person is conscious. Do not induce vomiting. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Get medical attention immediately.

Most important symptoms/effects, acute and delayed

Eyes: Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

Skin: Can cause severe skin burns. Symptoms may include redness, edema, drying, defatting and cracking of the skin. Inhalation: Vapors are irritating to the respiratory system, may cause throat pain and cough.

5 Fire-fighting measures

Suitable extinguishing media

Suitable Extinguishing Media CO2, dry chemical, dry sand, alcohol-resistant foam. Unsuitable Extinguishing Media Do not use a direct water stream, which may spread fire.

Specific hazards arising from the chemical

In a fire, product may produce the following: Carbon monoxide, Aldehydes. Carbon dioxide, Nitrogen oxides, Fire may produce irritating, corrosive and/or toxic gases.

Special protective actions for fire-fighters

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves. Where splashing is possible, full chemically resistant protective clothing, and boots are required.

Environmental precautions

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

Methods and materials for containment and cleaning up

PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL. Absorb with sand or vermiculite and place in closed containers for disposal. Ventilate the area.

7 Handling and storage

Precautions for safe handling

Avoid contact with eyes. Do not get on skin and clothing. Avoid inhalation of vapor or mist. Store in a closed container.

Provide adequate ventilation. Wear all personal protection required in section 8.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Store away from incompatible material.

8 Exposure controls/personal protection

Control parameters

Hazardous Components	CAS #	OSHA PEL	ACGIH TLV	Other Limits
Benzenemethanol	100-51-6	No data.	No	No
Formaldehyde, polymer with	135108-88-2	No data.	No	No data.
henzenamine hydrogenated			data.	
Phenol, 4-nonyl-, branched	84852-15-3	No data.	No	No
Aliphatic Amine	NA	No data.	No	No
Diethylenetriamine	111-40-0	No data.	1 ppm	No
Cyclohexylamine, 4,4'-methylenebis-	1761-71-3	No data.	No	No
Organic Acid	NA	No data.	No	No
4,4'-Isopropylidenediphenol	80-05-7	No data.	No	No
2,4,6-Tris(Dimethylaminomethyl)Phenol	90-72-2	No data.	No	No

Appropriate engineering controls

Good general ventilation should be sufficient to control airborne levels. Safety shower and eye bath.

Individual protection measures

Neoprene gloves Safety glasses, or goggles. Impervious clothing. Chemical resistant boots.

Normally when good engineering controls are used, no respiratory protection is needed. However, if cured product is abraded by sanding or grinding use a NIOSH approved air-purifying respirator. Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators.

9 Physical and chemical properties

Physical and chemical properties

Physical States:	Liquid, Amber Color
Odor:	Strong Amine
Melting Point:	NE
Boiling Point:	NE
Decomposition Temperature:	NE
Autoignition Pt:	No Data
Flash Pt: Explosive Limits: Specific Gravity (Water = 1): Density: Vapor Pressure (vs. Air or mm Hg): Vapor Density (vs. Air = 1): Evaporation Rate: Solubility in Water: Percent Volatile:	> 200.00 F Method Used: Pensky-Marten Closed Cup LEL: NE UEL: NE 1.019 8.5 LB/GL NE NE NE NE No data. N A
VOC / Volume:	N-A. NP
HAP / Volume: Saturated Vapor Concentration:	NP NE

10 Stability and reactivity

Reactivity

Avoid: acids, Avoid uncontrolled contact with isocyanates. Avoid: Uncontrolled reactions with epoxies.

Hazardous Polymerization will not occur in normal storage conditions.

Chemical stability

Stable under normal storage conditions.

Conditions to avoid

Extreme temperatures.

Incompatible materials

Avoid: acids, alkalis, oxidizing agents. Nitrous acid and other nitrosating agents.

Hazardous decomposition products

Thermal decomposition may produce smoke, carbon monoxide, carbon dioxide, aldehydes. ammonia. Nitric Acids. Nitrogen oxides.

11 Toxicological information

Toxicological (health) effects

May cause sensitization by skin contact. Skin sensitization. Corrosive! Damages skin and eyes.

Symptoms related to the physical, chemical and toxicological characteristics

May cause sensitization by skin contact. May cause skin irritation or burns. Can cause eye irritation or burns.

Numerical measures of toxicity (such as acute toxicity estimates)

Hazardous Components	CAS #	NTP	IARC	ACGIH	OSHA
Benzenemethanol	100-51-6	n.a.	n.a.	n.a.	n.a.
Formaldehyde, polymer with benzenamine,	135108-88-2	n.a.	n.a.	n.a.	n.a.
hydrogenated					
Phenol, 4-nonyl-, branched	84852-15-3	n.a.	n.a.	n.a.	n.a.
Aliphatic Amine	NA	n.a.	n.a.	n.a.	n.a.
Diethylenetriamine	111-40-0	n.a.	n.a.	n.a.	n.a.
Cyclohexylamine, 4,4'-methylenebis-	1761-71-3	n.a.	n.a.	n.a.	n.a.
Organic Acid	NA	n.a.	n.a.	n.a.	n.a.
4,4'-Isopropylidenediphenol	80-05-7	n.a.	n.a.	n.a.	n.a.
2,4,6-Tris(Dimethylaminomethyl)Phenol	90-72-2	n.a.	n.a.	n.a.	n.a.

12 Ecological information

Toxicity

Avoid release to the environment. Do not empty into drains. May be hazardous to the environment if released in large quantities.

Persistence and degradability

No data available.

Bioaccumulative potential

No data available.

Mobility in soil

No Data Available

13 Disposal considerations

Disposal methods

Incinerate or dispose of unused material, residues and containers in a licensed facility in accordance with all applicable local, state and federal regulations. Do not discharge substance/product into sewage system.

14 Transport information

UN Number

1719

UN Proper Shipping Name

CAUSTIC ALKALI LIQUID, N.O.S. (Contains Aliphatic Amines, Nonylphenol) MARINE POLLUTANT.

Transport hazard class(es)

8 - Corrosive

Packing group, if applicable

III

Environmental hazards

Marine Pollutant(s): Nonylphenol. NOTE: Marine Pollutants - DOT requirements specific to Marine Pollutants do not apply to non-bulk packagings transported by motor vehicles, rail cars or aircraft.

15 Regulatory information

Safety, health and environmental regulations specific for the product in question

Hazardous Components	CAS #	Sec.302 (EHS)	Sec. 304	Sec.313 (TRI)	Sec.110
Benzenemethanol	100-51-	No	No	No	No
Formaldehyde, polymer with	135108-88-	No	No	No	No
henzenamine hydrogenated	2				
Phenol, 4-nonyl-, branched	84852-15-	No	No	No	No
Aliphatic Amine	NA	No	No	No	No
Diethylenetriamine	111-40-	No	No	No	No
Cyclohexylamine, 4,4'-methylenebis-	1761-71-	No	No	No	No
Organic Acid	NA	No	No	No	No
4,4'-Isopropylidenediphenol	80-05-7	No	No	Yes	No
2,4,6-	90-72-2	No	No	No	No

SARA Section 311/312: Acute Health Hazard.

16 Other information

Other information

CA=CIRCA NA=NOT AVAILABLE NE=NOT ESTABLISHED NR=NOT REGULATED NP= NOT APPLICABLE PR=PROPRIETARY TS=TRADE SECRET ?=UNKNOWN.

Some of the information presented and conclusions drawn herein are from sources other than direct test data on the product itself. The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. If the product is used as a component in another product other than that provided by Lava-Liner, Ltd. this SDS information may not be applicable. This SDS has been prepared in accordance with the requirements of the OSHA Hazard Communication Standard (29 CFR 1910.1200).