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1. Product and Company Identification				
Satori Lifestyle Finish Part E	3			
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Shikoku International Corpo	pration			
301 N. Rampart St., Suite C	;			
Orange, CA 92868				
+1 (513)943-4225				
Chemtrec (USA)	(800)424-9300			
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	Satori Lifestyle Finish Part E Satori Lifestyle Finish Part E Shikoku International Corpo 301 N. Rampart St., Suite C Orange, CA 92868 +1 (513)943-4225 Chemtrec (USA)	Satori Lifestyle Finish Part B Satori Lifestyle Finish Part B Shikoku International Corporation 301 N. Rampart St., Suite C Orange, CA 92868 +1 (513)943-4225 Chemtrec (USA) (800)424-9300		

2.	Hazards	Identific	cation
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Placar d	Key word	GHS hazard phrase		
Exclamation	Warning	Causes skin irritation		
•	Warning	Causes serious eye irritation		
Health hazard	Danger	May cause allergy or asthma symptoms or breathing difficulties if inhaled		
Exclamation point	Warning	Harmful if inhaled		
Health hazard	Warning	May cause damage to lungs through prolonged or repeated exposure.		
Exclamation point	Warning	May cause respiratory irritation,or may cause drowsiness and dizziness		
	d Exclamation point Exclamation point Health hazard Exclamation point Health hazard Exclamation	d Warning point Exclamation Warning point Exclamation Warning point Health hazard Danger Exclamation Warning point Health hazard Warning Exclamation Warning		

GHS Hazard Phrases

- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H332 Harmful if inhaled.
- H373 May cause damage to lungs through prolonged or repeated exposure.
- H335 May cause respiratory irritation.

GHS Precaution Phrases

- P262 Do not get in eyes, on skin, or on clothing.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P285 In case of inadequate ventilation wear respiratory protection.

GHS Response Phrases

P302+352 - IF ON SKIN: Wash with plenty of soap and water. P332+313 - If skin irritation occurs, get medical advice/attention. P362 - Take off contaminated clothing.

P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+313 - If eye irritation persists, get medical advice/attention.

P304+341 - IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. P342+311 - If experiencing respiratory symptoms call a POISON CENTER or doctor/physician.



P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P313 - Get medical advice/attention.

GHS Storage and Disposal Phrases

P501 - Dispose of contents/container to local, state, and federal authority requirements.

P402+404 - Store in a dry place and/or in closed container.

Potential Health Effects (Acute and Chronic)

May cause sensitization. Moderate irritant.

Inhalation

May cause respiratory tract irritation. May cause sensitization by inhalation. May cause allergic respiratory reaction.

Skin Contact

Causes skin irritation. May cause sensitization by skin contact.

Eye Contact

Causes eye irritation.

Ingestion

May be harmful if swallowed.

Recommended Exposure Limits

Homopolymer of Hexamethylene Diisocyanate (28182-81-2) Exposure Limit

time weighted average 0.5 mg/m3

Exposure Limit

Short Term Exposure Limit (STEL): 1.0 mg/m3 (15-min)

Hexamethylene-1,6-Diisocyanate (822-06-0) ACGIH Threshold Limit Values Time Weighted Average (TWA): 0.005 ppm Exposure Limit Ceiling Limit Value: 0.02 ppm

Medical Conditions Generally Aggravated By Exposure

Skin disorders, Respiratory disorders, Eye disorders, Skin Allergies.

OSHA Regulatory Status:

This material is classified as hazardous under OSHA regulations.

3. Composition/Information on Ingredients

 Poly(hexamethylene diisocyanate) 28182-81-2 60 - 100 % Cyclohexanamine, N,N-dimethyl-, compds. with 3-(cyclohexylamino)-1-propanesulfonic acid-blocked 1,6-diisocyanatohexane homopolym Dimethylcyclohexyl amine 98-94-2 0.10 - 1.0 % 	На	zardous Components (Chemical Name)	CAS #	Concentration
3-(cyclohexylamino)-1-propanesulfonic acid-blocked1,6-diisocyanatohexane homopolym	1.	Poly(hexamethylene diisocyanate)	28182-81-2	60 - 100 %
acid-blocked 1,6-diisocyanatohexane homopolym	2.		666723-27-9	15 - 25 %
homopolym				
3. Dimethylcyclohexyl amine 98-94-2 0.10 - 1.0 %		homopolym		
	3.	Dimethylcyclohexyl amine	98-94-2	0.10 - 1.0 %
4. Hexamethylene-1,6-diisocyanate 822-06-0 0.10 - 1.0 %	4.	Hexamethylene-1,6-diisocyanate	822-06-0	0.10 - 1.0 %

4. First Aid Measures

Emergency and First Aid Procedures

Use first aid treatment according to the nature of the injury. Keep victim under observation. Get immediate medical advice/attention.

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.

Signs and Symptoms Of Exposure

Acute or chronic overexposure to isocyanates may cause sensitization in some individuals, resulting in allergic respiratory reactons including wheezing, shortness of breath and difficulty breathing.

	5. Fire Fighting Measure	es
Flash Pt:	~ 365.00 F	
Explosive Limits:	LEL: NE UEL: NE	
Autoignition Pt:	No data available.	

Fire Fighting Instructions

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

Flammable Properties and Hazards

Product is not considered a fire hazard. Closed containers may rupture (due to build up in pressure) when exposed to extreme heat.

Hazardous Combustion Products

Hazardous decomposition products formed under fire conditions. Carbon dioxide, Carbon monoxide, Hydrogen cyanide, Nitrogen oxides, Isocyanates.

Suitable Extinguishing Media

CO2, dry chemical, dry sand, alcohol-resistant foam. Use water spray to cool unopened containers.

Unsuitable Extinguishing Media

Do not use water because of violent reaction.

6. Accidental Release Measures

Steps To Be Taken In Case Material Is Released Or Spilled

PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL.

Ventilate the area. Dike far ahead of spill; use dry sand to contain the flow of material. Shovel into open container. Do not close container tight. Move container to a well-ventilated area (outside). Spill area can be decontaminated with the following recommended decontamination solution: Mixture of 90 % water, 8 % concentrated ammonia, 2 % detergent. Add at a 10 to 1 ratio. Allow to stand for at least 48 hours to allow escape of evolved carbon dioxide.

Protective 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.

7. Handling and Storage

Hazard Label Information:

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



Precautions To Be Taken in Handling

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

Precautions To Be Taken in Storing

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

Other Precautions

Wash thoroughly after handling.

	8. Exposure Controls/Personal Protection				
Haz	Hazardous Components (Chemical Name) CAS # OSHA PEL ACGIH TLV Other Limits				
1.	Poly(hexamethylene diisocyanate)	28182-81-2	No data.	No data.	No data.
	Cyclohexanamine, N,N-dimethyl-, compds. with 3-(cyclohexylamino)-1-propanesulfonic acid-blocked 1,6-diisocyanatohexane homopolym	666723-27-9	No data.	No data.	No data.
3.	Dimethylcyclohexyl amine	98-94-2	No data.	No data.	No data.
4.	Hexamethylene-1,6-diisocyanate	822-06-0	No data.	0.005 ppm	No data.

Protective Equipment Summary - Hazard Label Information:

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

Respiratory Equipment (Specify Type)

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 may not provide adequate protection.

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.

Engineering Controls (Ventilation etc.)

Ventilation is normally required when handling or using this product to keep exposure to airborne contaminants below the exposure limit. Good general ventilation should be sufficient to control airborne levels. Safety shower and eye bath.

Work/Hygienic/Maintenance Practices

Wash contaminated clothing before reuse. Discard contaminated shoes. Wash thoroughly after handling.

Environmental Exposure Controls

Avoid runoff into storm sewers and ditches which lead to waterways. May be hazardous to the environment if released in large quantities.

9. Physical and Chemical Properties		
Physical States:	[]Gas [X]Liquid []Solid	
Melting Point:	NE	
Boiling Point:	~ 355.00 F	
Decomposition Temperature:	~ 355.00 F	
Autoignition Pt:	No data.	



Flash Pt:	~ 365.00 F		
Explosive Limits:	LEL: NE	UEL:	NE
Specific Gravity (Water = 1):	~ 1.15		
Density:	~ 9.6 LB/GL		
Vapor Pressure (vs. Air or mm Hg):	NE		
Vapor Density (vs. Air = 1):	NE		
Evaporation Rate:	NE		
Solubility in Water:	nil		
Solubility Notes			
Insoluble. Reacts with water.			
Percent Volatile:	0.0 % by volume.		
VOC / Volume:	NP		
HAP / Volume:	NP		
Saturated Vapor Concentration:	NE		
Appearance and Odor			
Clear. Slight odor.			

Appearance: Light. Yellowish.

10. Stability and Reactivity

Stability:

Unstable [] Stable [X]

Reactivity

Avoid: acids, amines, alcohols, water, alkalines, strong bases. Reacts with water, with formation of carbon dioxide. Copper alloys.

Conditions To Avoid - Instability

Moisture. Extreme temperatures.

Incompatibility - Materials To Avoid

Avoid: acids, amines, alcohols, water, alkalines, strong bases. Copper alloys.

Hazardous Decomposition Or Byproducts

Thermal decomposition may produce smoke, carbon monoxide, carbon dioxide, Hydrogen cyanide, aromatic isocyanates, gases/vapors. Isocyanates.

Possibility of Hazardous Will occur [] Will not occur [X]

Polymerization:

Conditions To Avoid - Hazardous Reactions

Will not undergo hazardous polymerization in normal storage conditions.

11. Toxicological Information

Toxicological Information

May cause sensitization by skin contact. The isocyanate component is a respiratory sensitizer. It may cause allergic reaction leading to asthma-like spasms of the bronchial tubes and difficulty in breathing. Persons with asthmatic conditions, chronic bronchitis, other chronic respiratory diseases, recurrent eczema or pulmonary sensitization should be excluded from working with isocyanates. Once a person is diagnosed as having pulmonarysensitization (allergic asthma) to isocyanates, further exposure is not recommended.

Chronic Toxicological Effects

May cause sensitization by skin contact. May cause sensitization by inhalation. The substance may cause damage to the olfactory epithelium after repeated inhalation.

Irritation or Corrosion

Respiratory or skin sensitization. Prolonged contact can cause reddening, swelling, rash, scaling, or blistering.



Symptoms related to Toxicological Characteristics

The isocyanate component is a respiratory sensitizer. It may cause allergic reaction leading to asthma-like spasms of the bronchial tubes and difficulty in breathing. Persons with asthmatic conditions, chronic bronchitis, other chronic respiratory diseases, recurrent eczema or pulmonary sensitization should be excluded from working with isocyanates. Once a person is diagnosed as having pulmonarysensitization (allergic asthma) to isocyanates, further exposure is not recommended.

Sensitization

Assessment of sensitization:

The substance may cause sensitization of the respiratory tract. Sensitization after skin contact possible. Studies in animals suggest that dermal exposure may lead to pulmonary sensitization. However, the relevance of this result for humans is unclear.

Carcinogenicity/Other Information

Assessment of carcinogenicity: A carcinogenic potential cannot be excluded after prolonged exposure to severely irritating concentrations. These effects are not relevant to humans atoccupational levels of exposure.

Experimental/calculated data:

OECD Guideline 453 rat Inhalation 0, 0.2, 1, 6 mg/m3

Result: Lung tumors.

Hazardous Components (Chemical Name)		CAS #	NTP	IARC	ACGIH	OSHA
1.	Poly(hexamethylene diisocyanate)	28182-81-2	n.a.	n.a.	n.a.	n.a.
2.	Cyclohexanamine, N,N-dimethyl-, compds. with 3-(cyclohexylamino)-1-propanesulfonic acid-blocked 1,6-diisocyanatohexane homopolym	666723-27-9	n.a.	n.a.	n.a.	n.a.
3.	Dimethylcyclohexyl amine	98-94-2	n.a.	n.a.	n.a.	n.a.
4.	Hexamethylene-1,6-diisocyanate	822-06-0	n.a.	n.a.	n.a.	n.a.

12. Ecological Information

General Ecological Information

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

Results of PBT and vPvB assessment

No data available.

Persistence and Degradability

Poor Degradability.

Bioaccumulative Potential

Hydrophilic Aliphatic Polyisocyanate based on Hexamethylene Diisocyanate : 0 %, not readily degradable.

Homopolymer of Hexamethylene Diisocyanate: 0 %, Exposure time: 28 Days, Not readily biodegradable.

N,N-dimethylcyclohexylamine: Aerobic, > 70 %, Exposure time: 28 Days.

Mobility in Soil

Adsorption to solid soil phase is not expected.

13. Disposal Considerations

Waste Disposal Method

Dispose of this product, product solutions and its container according to federal, state and local authority requirements. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum. Avoid release to the environment.



	14. Transport Information
LAND TRANSPORT (US DOT)	
DOT Proper Shipping Name	Not Regulated.
Precautionary Label	May cause skin, eye, and respiratory irritation. May cause sensitization by inhalation and skin contact. Always read Safety Material Data Sheet before use.
AIR TRANSPORT (ICAO/IATA)	
ICAO/IATA Shipping Name	Not Regulated.
MARINE TRANSPORT (IMDG/IMO)	
IMDG/IMO Shipping Name	Not Regulated.
Marine Pollutant:	No
	15. Regulatory Information

Regulatory Information

SARA 302 Extremely Hazardous Substances: None.

SARA Section 311/312: Acute, Chronic Health Hazard.

SARA 313 Toxic Chemicals: None.

CERCLA Reportable Quantity: None.

To the best of our knowledge, this product does not contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm.

16. Other Information

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

Company Policy or Disclaimer

The information contained in this MSDS is taken from sources believed to be accurate as of the date hereof; however the Key Resin Company makes no expressed or implied warranty in respect to the accuracy of the information or the suitability of the recommendations, and assumes no liabilities to any user thereof.

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