SAFETY DATA SHEET

According to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and GHS

SECTION 1: Identification of the Substance/Mixture and the Company/Undertaking

Product Name: UPA 85/ULO PART B
Product Code: 57-0160-B

Recommended Use: For Industrial Use Only

Rio Flooring Systems Inc.
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SECTION 2: Hazard(s) Identification

GHS RATINGS:

Classification	Category	
Flammable liquid	Category 3	Flash point >= 23°C and <= 60°C (140°F)
Skin corrosive	Category 2	Reversible adverse effects in dermal tissue, Draize score: >=2.3 < 4.0 or persistent inflammation
Eye corrosive	Category 2A	Eye irritant: Subcategory 2A, Reversible in 21 days
Skin sensitizer	Category 1	Skin sensitizer
Mutagen	Category 1B	Known to produce heritable mutations in human germ cells Subcategory 1B, Positive results: In vivo heritable germ cell tests in mammals, Human germ cell tests, In vivo somatic mutagenicity tests, combined with some evidence of germ cell mutagenicity
Carcinogen	Category 1B	Presumed Human Carcinogen, Based on demonstrated animal carcinogenicity
Reproductive toxin	Category 1B	Presumed, Based on experimental animals
Aspiration hazard	Category 1B	Aspiration Toxicity Category 1: Known (regarded)- human evidence - hydrocarbons with kinematic viscosity <= 20.5 mm2/s at 40° C.

GHS HAZARDS:

Hazardous Statements	
Health	
H226	Flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H340	May cause genetic defects
H350	May cause cancer
H360	May damage fertility or the unborn child

GHS PRECAUTIONS:

Precautionary Statements	
General	
P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P210	Keep away from heat/sparks/open flames/hot surfaces – No smoking
P233	Keep container tightly closed
P240	Ground/bond container and receiving equipment
P241	Use explosion-proof electrical/ventilating/lighting/equipment
P242	Use only non-sparking tools
P243	Take precautionary measures against static discharge
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P264	Wash hands thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P281	Use personal protective equipment as required
P285	In case of inadequate ventilation wear respiratory protection
Response	
P321	Specific treatment, see supplemental first aid information.
P331	Do NOT induce vomiting
P362	Take off contaminated clothing and wash before reuse
P363	Wash contaminated clothing before reuse
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P302+P352	IF ON SKIN: Wash with soap and water
P303 + P361 + P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P304 + P341	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P305 + P351 + P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing
P308 + P313	IF exposed or concerned: Get medical advice/attention
P332+P313	If skin irritation occurs: Get medical advice/attention
P333+P313	If skin irritation or a rash occurs: Get medical advice/attention
P337+P313	Get medical advice/attention
P342+P311	Call a POISON CENTER or doctor/physician
P370+P378	In case of fire: Use alcohol resistant foam, dry chemical, carbon dioxide (CO2), dry sand for extinction
Storage	
P403+P235	Store in a well ventilated place. Keep cool
P405	Store locked up
Disposal	
P501	Dispose of contents/container in accordance with local/regional/national/international regulations. Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.

Signal Word: Danger

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Unnecessary exposure to any chemical should be avoided. NOTICE--Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Do not breathe vapors or spray mist. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during and after applicable limits.
Follow respirator manufacturer's directions for respirator use.

SECTION 3: Composition/Information on Ingredients

Clinical Name	CAS No.	Weight Concentration %
Hexamethylene diisocyanate homopolymer	28182-81-2	70.00% - 80.00%
Solvent naphtha, petroleum, light aromatic	64742-95-6	10.00% - 20.00%
Benzene, 1,2,4-trimethyl-	95-63-6	5.00% - 10.00%
Xylenes (o-, m-, p- isomers)	1330-20-7	1.00% - 5.00%
Cumene	98-82-8	0.10% - 1.00%

SECTION 4: First Aid Measures

EYE CONTACT: Immediately rinse opened eye(s) for several minutes under running water. Use lukewarm water if possible. Remove contact lenses if worn. Get medical attention.

SKIN CONTACT: Remove contaminated clothing and shoes. Immediately wash with water and soap, rinse thoroughly. If skin irritation continues, consult a doctor.

INGESTION: Immediately get medical attention. Call a poison center or physician. Rinse out mouth and then drink small amounts of water. Do not induce vomiting as this may be dangerous. Aspiration hazard if swallowed, can enter lungs and cause damage. If vomiting occurs, the head should be kept low to avoid vomit entering the lungs. Maintain an open airway.

INHALATION: Immediately supply fresh air. Keep patient in restful and comfortable position for breathing. If required provide artificial respiration, although this may be dangerous. Consult doctor if symptoms persist.

NOTE TO PHYSICIAN: Treat symptomatically

SECTION 5: Firefighting Measures

Flash Point: 26 C (79 F)

LEL: 1.00 UEL:

EXTINGUISHING MEDIA:
Alcohol resistant foam
Fire-extinguishing powder
Carbon dioxide

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OF MIXTURE:
Formation of toxic gases is possible during heating or in case of fire. Check flammability in section 2 of this sheet. Mixture in sealed and heated containers may cause explosion hazard.

HAZARDOUS COMBUSTION PRODUCTS MAY INCLUDE THE FOLLOWING:
Carbon oxides. Metal oxide(s). Nitrogen oxides.
Can form explosive vapor-air mixtures
Vapors are heavier than air and may spread along floors . Vapors may travel considerable distance to source of ignition and flash back.

ADVICE FOR FIREFIGHTERS:
Clear fire area of unprotected personnel. Containers that are exposed to intense heat should be cooled with water. Avoid spreading burning liquid with the water used for cooling purposes . Do not enter fire area without protective gear. Fight fire from safe distance or a protected location.

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FIRE EQUIPMENT:
Wear self-contained respiratory protective device. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental Release Measures

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:
Wear protective equipment. Keep unprotected persons away.
Keep away from ignition sources.
Wear protective clothing.
Keep from contacting skin or eyes.
Avoid breathing vapors, mist, or gas.
Ensure adequate ventilation.
Evacuate personnel to safe areas.
If any equipment is necessary, ensure that it is non-sparking and electrically-protected .

ENVIRONMENTAL PRECAUTIONS:
Do not allow product to reach sewage system or any water source.
In case of seepage into the ground inform responsible authorities
Prevent from spreading (e.g. by damming-in or oil barriers).
Keep contaminated washing water and dispose of appropriately

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:
Ensure adequate ventilation
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of contaminated material as waste.
Do not flush with water or aqueous cleansing agents.
Send for recovery or disposal in suitable receptacles according to local, state and federal regulations.

SECTION 7: Handling & Storage

HANDLING:
Apply proper ventilation, possibly combined with local exhaust.
Do not eat, smoke or drink during use.
For personal protection see Section 8.
Keep away from sources of ignition.
Keep material out of reach of children.
Use only explosion proof equipment.
Wash thoroughly after handling.

INFORMATION ABOUT PROTECTION AGAINST EXPLOSIONS AND FIRES:
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges by bonding and grounding product containers before and during material transfers.
Keep respiratory protective device available.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:
Storage: Keep away from sources of ignition - no smoking. Store in a cool, well ventilated place. Keep in original, closed packaging. Comply with governmental regulations.

Keep container tightly closed. Store out of direct sunlight, between 40 and 90F.

Specific end use(s): FOR INDUSTRIAL USE ONLY!

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SECTION 8: Exposure Controls / Personal Protection

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Hexamethylene diisocyanate homopolymer 28182-81-2	TWA: 0.5 mg/m³	STEL: 1.0 mg/m3 (15-min)	Not Established
Solvent naphtha, petroleum, light aromatic 64742-95-6	Not Established	Not Established	Not Established
Benzene, 1,2,4-trimethyl-95-63-6	Not Established	Not Established	NIOSH: 25 ppm TWA; 125 mg/m3 TWA
Xylenes (o-, m-, p- isomers) 1330-20-7	100 ppm TWA; 435 mg/m3 TWA	150 ppm STEL 100 ppm TWA	Not Established
Cumene 98-82-8	50 ppm TWA; 245 mg/m3 TWA	50 ppm TWA	NIOSH: 50 ppm TWA; 245 mg/m3 TWA

VENTILATION:
All ventilation should be designed in accordance with OSHA standard (29 CFR 1910 .94). Use local exhaust at filling zones and where leakage and dust formation is probable. Use mechanical (general) ventilation for storage areas. Use appropriate ventilation as required to keep Exposure Limits in Air below TLV & PEL limits

PERSONAL PROTECTIVE EQUIPMENT/GENERAL PROTECTIVE AND HYGIENIC MEASURES

RESPIRATORY PROTECTION:
In outdoor or open areas use (NIOSH/MSHA approved) mechanical filter respirator to remove solid airborne particles of overspray during spray application. In restricted ventilation areas use (NIOSH/MSHA approved) chemical-mechanical filters designed to remove a combination of particulate and gas and vapor. In confined areas use (NIOSH/MSHA approved) airline type respirators or hoods. Respiratory protection may also be necessary in any later manufacturing operations in which the product may become airborne in the form of vapor or dust.

PROTECTIVE GLOVES:
Protective gloves are required for prolonged or repeated contact. Wear resistant gloves such as natural rubber, neoprene, buna N or nitrile. An apron should be worn to avoid skin contact. (Consult your safety equipment supplier.)

EYE PROTECTION:
Avoid contact with eyes. Wear goggles if there is a likelihood of contact with eyes . (Consult your safety equipment supplier.) Eyewash stations and safety showers should be readily available in use and handling areas. Contact lenses pose a special hazard; soft lenses may absorb irritants and all lenses concentrate them.

BODY PROTECTION:
Chemically resistance gloves, apron and safety goggles are recommended. Type of protective equipment should be selected based on concentration amount and conditions of use of this material.

CONTAMINATED GEAR:
Dispose of in accordance with official regulations.

SECTION 9: Physical & Chemical Properties

Physical state	Liquid	Vapor Pressure	2.9 mmHg
Appearance	Liquid	Specific Gravity	1.072
Boiling Range	138 to 177 °C	Coating VOC (EPA calculation) lb/gl	2.22
Coating VOC (as supplied)	2.22 lb/gl		
Odor	Typical Solvent		

SECTION 10: Stability & Reactivity

INCOMPATIBILITIES:
Avoid contact with strong oxidizing agents.

HAZARDOUS DECOMPOSITION:
Thermal decomposition may form toxic materials; carbon dioxide, carbon monoxide, various hydrocarbons, etc.

Hazardous polymerization will not occur.

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SECTION 11: Toxicological Information

MIXTURE TOXICITY
Inhalation Toxicity LC50: 22mg/L

COMPONENT TOXICITY

ROUTES OF ENTRY:

TARGET ORGANS:
Blood Eyes, Central Nervous System, Skin Respiratory System

Effects of Overexposure

CARCINOGENICITY:
The following chemicals comprise 0.1% or more of this mixture and are listed and/or classified as carcinogens or potential carcinogens by NTP, IARC, OSHA (mandatory listing), or ACGIH (optional listing).

CAS Number	Description	% Weight	Carcinogen Rating
98-82-8	Cumeme	0.1 to 1.0%	Cumene: IARC: Possible human carcinogen OSHA: listed
64742-95-6	Solvent naphtha, petroleum, light aromatic	10 to 20%	Solvent naphtha, petroleum, light aromatic: EU REACH: Present (P)

SECTION 12: Ecological Information

ENVIRONMENTAL IMPACT STATEMENT/TOXICITY:

Aquatic toxicity:	No further relevant information available
Persistence and degradability:	No further relevant information available
Bioaccumulative potential:	No further relevant information available.
Mobility in soil:	No further relevant information available.
Other adverse effect:	No further relevant information available

COMPONENT ECOTOXICITY

Solvent naphtha, petroleum, light aromatic
96 Hr LC50 Oncorhynchus mykiss: 9.22 mg/L
48 Hr EC50 Daphnia magna: 6.14 mg/L

Benzene, 1,2,4-trimethyl-
96 Hr LC50 Pimephales promelas: 7.19 - 8.28 mg/L [flow-through]
48 Hr EC50 Daphnia magna: 6.14 mg/L

Xylenes (o-, m-, p- isomers)
96 Hr LC50 Pimephales promelas: 13.4 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 2.661 - 4.093 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 13.5 - 17.3 mg/L; 96 Hr LC50 Lepomis macrochirus: 13.1 - 16. 5 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 19 mg/L; 96 Hr LC50 Lepomis macrochirus: 7.711 - 9.591 mg/L [static]; 96 Hr LC50 Pimephales promelas: 23.53 - 29.97 mg/L [static]; 96 Hr LC50 Cyprinus carpio: 780 mg/L [semi-static]; 96 Hr LC50 Cyprinus carpio: >780 mg/L; 96 Hr LC50 Poecilia reticulata: 30.26 - 40.75 mg/L [static]
48 Hr EC50 water flea: 3.82 mg/L; 48 Hr LC50 Gammarus lacustris: 0.6 mg/L

Cumene
96 Hr LC50 Pimephales promelas: 6.04 - 6.61 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 4.8 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 2.7 mg/L [semi-static]; 96 Hr LC50 Poecilia reticulata: 5.1 mg/L [semistatic]
48 Hr EC50 Daphnia magna: 0.6 mg/L; 48 Hr EC50 Daphnia magna: 7.9 - 14.1 mg/L [Static]
72 Hr EC50 Pseudokirchneriella subcapitata: 2.6 mg/L

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SECTION 13: Disposal Considerations

WASTE TREATMENT METHODS:

Recommendation:
Must not be disposed of together with household garbage.
Do not allow product to reach sewage system.

Disposal of this product and any by-products must at all times comply with local, state and Federal regulations for hazardous wastes. All entities that store, transport or handle hazardous waste must take the necessary measures to prevent risks of pollution, release into the environment or damage to people and animals.

Contaminated Packaging:
Waste packaging should be recycled. Care should be taken when handling emptied containers that have not been cleaned. Empty containers retain some product residues. Vapor from that residue may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers.

SECTION 14: Transport Information

Agency	Proper Shipping Name	UN Number	Packing Group	Hazard Class
DOT	PAINT	UN 1263	II	3

SECTION 15: Regulatory Information

SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

Prop 65 - Chemicals Known to Cause Developmental Toxicity	None
Prop 65 - Chemicals Known to Cause Cancer:	None
U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities	None
U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs	None
U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs	None
U.S. - CERCLA/SARA - Section 313 - Emission Reporting	None
TSCA (Toxic Substances Control Act)	None

Country	Regulation	All Components Listed
USA	Inventory - United States - Section 8(b) Inventory (TSCA)	Yes
Canada	DSL (Canadian Domestic Substance List)	Yes

EU Risk Phrases

SAFETY PHRASE

U.S. - TSCA:
None

U.S. - SARA:
1330-20-7 Xylenes (o-, m-, p- isomers) 1.0 - 5%
98-82-8 Cumene 0.1 - 1.0%

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SECTION 16: Other Information

Date Prepared: 05/04/2020
Date Revised: 12/10/2019

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