

## Safety Data Sheet (SDS)

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: UHW 2K Aliphatic Topcoat A

Product Code: 57-0120-A

Rio Flooring Systems Inc.

2926 Chester Avenue

Cleveland, OH 44114

United States

Email: [info@riofloor.com](mailto:info@riofloor.com)

Phone: (888) 278-2183



Chemtrec: 1- 800-424-9300

Chemtrec Global: 1-703-741-5970

### Section 2: Hazard(s) Identification

#### GHS Ratings:

Inhalation Toxicity	Acute Tox. 4	Gases>2500+<=5000ppm, Vapors>10+<=20mg/l, Dusts&mists>1+<=5mg/l
Respiratory sensitizer	1	Respiratory sensitizer
Skin sensitizer	1	Skin sensitizer

#### GHS Hazards

H317	May cause an allergic skin reaction.
H332	Harmful if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled

#### GHS Precautions

P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P271	Use only outdoors or in a well-ventilated area
P272	Contaminated work clothing should not be allowed out of the workplace
P280	Wear protective gloves/protective clothing/eye protection/face protection
P285	In case of inadequate ventilation wear respiratory protection
P312	Call a POISON CENTER or doctor/physician if you feel unwell
P321	Specific treatment, see supplemental first aid information.
P363	Wash contaminated clothing before reuse
P302+P352	IF ON SKIN: Wash with soap and water
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P304+P341	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing
P333+P313	If skin irritation or a rash occurs: Get medical advice/attention
P342+P311	Call a POISON CENTER or doctor/physician
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



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

Chemical Name	CAS number	Weight Concentration %
Hexamethylene diisocyanate homopolymer	28182-81-2	99.80%
Hexamethylene diisocyanate	822-06-0	0.20%

### Section 4: First Aid Measures

**After 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.

**After 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.

**After Skin Contact:** Remove contaminated clothing and shoes. Immediately wash with water and soap, rinse thoroughly. If skin irritation continues, consult a doctor.

**After Swallowing:** 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.

**Notes to Physician:** Treat symptomatically

### Section 5: Firefighting Measures

Flash Point: N/A

LEL:

UEL:

#### Extinguishing Media:

Alcohol resistant foam

Fire-extinguishing powder

Carbon dioxide

#### Special Hazards Arising from the Substance or 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.

#### 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 and 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!**

## 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/m <sup>3</sup>	STEL: 1.0 mg/m <sup>3</sup> (15-min)	Not Established
Hexamethylene diisocyanate 822-06-0	Not Established	0.005 ppm TWA	NIOSH: 0.005 ppm TWA; 0.035 mg/m <sup>3</sup> TWA 0.020 ppm Ceiling (10 min); 0.140 mg/m <sup>3</sup> Ceiling (10 min)

#### 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 and Chemical Properties

<b>Appearance</b> Liquid <b>Physical State</b> Liquid <b>Specific Gravity (SG)</b> 1.160  <b>Coating VOC (EPA calculation)</b> 0.00 lb/gal	<b>Odor</b> Typical Solvent <b>Vapor Pressure</b> 0.050 mmHg <b>Coating VOC (as supplied)</b> 0.00 lb/gal
--	---

## Section 10: Stability and 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.

**Section 11: Toxicological Information****Mixture Toxicity**

Inhalation Toxicity LC50: 19mg/L

**Component Toxicity**

822-06-0 Hexamethylene diisocyanate  
Oral LD50: 710 µL/kg (Rat) Dermal LD50: 593 mg/kg (Rabbit) Inhalation LC50: 0 mg/L (Rat)

**Routes of Entry:****Target Organs:**

Eyes 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).

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
None			N/A

**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**

Hexamethylene diisocyanate 96 Hr LC50 Brachydanio rerio: 26.1 mg/L [static]

**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**

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
DOT	NOT	REGULATED		
IATA	NOT	REGULATED		

## 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

- None

TSCA (Toxic Substances Control Act)

- None

<u>Country</u>	<u>Regulation</u>	<u>All Components Listed</u>
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:

822-06-0 Hexamethylene diisocyanate 0.20%

## Section 16: Other Information

**\*DISCLAIMER\***

THE INFORMATION CONTAINED HEREIN WAS RECEIVED FROM OUR RAW MATERIAL SUPPLIERS AND OTHER SOURCES. CONTINENTAL PRODUCTS MAKES NO EXPRESS OR IMPLIED WARRANTIES REGARDING THE ACCURACY OF THE ABOVE INFORMATION AND YOU SHOULD NOT RELY ON IT. YOU SHOULD TEST THIS PRODUCT FOR CHEMICAL COMPOSITION AND CONSULT APPLICABLE SAFETY AND MEDICAL STANDARDS AND PROFESSIONALS RELATED THERETO. CONTINENTAL PRODUCTS DOES NOT WARRANT THE SUITABILITY OF THE PRODUCT FOR ANY APPLICATION BY THE USER, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.

Date revised: 2021-05-24

Reviewer Revision

Date Prepared: 5/24/2021