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SECTION 1: Identification

1.1. Catalog Number: 1214002

1.2. Recommended use and restrictions on use

Recommended use: Sealant

1.3. Supplier's details: C.R. Laurence Co., Inc.
2503 E. Vernon Ave.
Los Angeles, CA 90058-1826
Telephone: (323) 588-1281

1.4. Emergency telephone number: CHEMTREC: (800) 424-9300 (24 hours)

SECTION 2: Hazard identification

2.1. Hazard classification
Respiratory Sensitizer: Category 1.
Skin Sensitizer: Category 1.

2.2. Label elements
Signal word
Danger

Symbols
Health Hazard

Pictograms

Hazard Statements
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.

Precautionary Statements

Prevention:
Avoid breathing dust/fume/gas/mist/vapors/spray.
In case of inadequate ventilation wear respiratory protection.
Wear protective gloves.
Contaminated work clothing must not be allowed out of the workplace.

Response:
IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
IF ON SKIN: Wash with plenty of soap and water.
If skin irritation or rash occurs: Get medical advice/attention.
Wash contaminated clothing before reuse.

Disposal:
Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

2.3. Hazards not otherwise classified
Persons previously sensitized to isocyanates may develop a cross-sensitization reaction to other isocyanates.

30% of the mixture consists of ingredients of unknown acute oral toxicity.
60% of the mixture consists of ingredients of unknown acute dermal toxicity.

SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
Calcinated Kaolin	92704-41-1	20 - 40 Trade Secret *
Urethane Polymers	Trade Secret*	20 - 40 Trade Secret *
Plasticizer	Trade Secret*	15 - 30 Trade Secret *
Carbon Black	1333-86-4	5 - 10 Trade Secret *
2-Ethylhexylal	22174-70-5	3 - 7 Trade Secret *
Surface treated silica	67762-90-7	1 - 5 Trade Secret *
p,p'-Methylenebis (phenyl isocyanate)	101-68-8	< 0.3 Trade Secret *
Dibutyltin dichloride	683-18-1	< 0.07 Trade Secret *

*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:
Remove person to fresh air. If you feel unwell, get medical attention.

Skin Contact:
Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

Eye Contact:
Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.

If Swallowed:
Rinse mouth. If you feel unwell, get medical attention.

4.2. Most important symptoms and effects, both acute and delayed
See Section 11.1. Information on toxicological effects.

4.3. Indication of any immediate medical attention and special treatment required
Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media
In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

5.2. Special hazards arising from the substance or mixture
None inherent in this product.

Hazardous Decomposition or By-Products

Substance	Condition
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion
Hydrogen Cyanide	During Combustion
Oxides of Nitrogen	During Combustion

5.3. Special protective actions for fire-fighters
No unusual fire or explosion hazards are anticipated.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions
Avoid release to the environment.

6.3. Methods and material for containment and cleaning up
Collect as much of the spilled material as possible. Sweep up. Place in a container approved for transportation by appropriate authorities, but do not seal the container for 48 hours to avoid pressure build-up. Clean up residue. Seal the container. Dispose of collected material as soon as possible.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
For industrial or professional use only. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage including any incompatibilities
Keep container tightly closed to prevent contamination with water or air. If contamination is suspected, do not reseal container. Store away from heat.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Ingredient	C.A.S. No.	Agency	Limit type	Additional Comments
FREE ISOCYANATES	101-68-8	Manufacturer determined	TWA:0.005 ppm;STEL: 0.02 ppm	
p,p'-Methylenebis (phenyl isocyanate)	101-68-8	Amer. Conf. of Gov. Indust. Hyg.	TWA:0.005 ppm	
p,p'-Methylenebis (phenyl isocyanate)	101-68-8	US Dept. of Labor - OSHA	CEIL:0.2 mg/m³ (0.02 ppm)	
Carbon Black	1333-86-4	Amer. Conf. of Gov. Indust. Hyg.	TWA(inhalable fraction): 3 mg/m³	
Carbon Black	1333-86-4	Chemical Manufacturer Rec Guid	TWA:0.5 mg/m³	
Carbon Black	1333-86-4	US Dept. of Labor - OSHA	TWA:3.5 mg/m³	
SILICA, AMORPHOUS	67762-90-7	US Dept. of Labor - OSHA	TWA concentration: 0.8 mg/m³ ;TWA:20 millions of particles/cu. ft.	
Surface treated silica	67762-90-7	Chemical Manufacturer Rec Guid	CEIL:5 mg/m³	
TIN, ORGANIC COMPOUNDS	683-18-1	Amer. Conf. of Gov. Indust. Hyg.	TWA(as Sn): 0.1 mg/m³ ; STEL(as Sn):0.2 mg/m³	Skin Notation
TIN, ORGANIC COMPOUNDS	683-18-1	US Dept. of Labor - OSHA	TWA(as Sn):0.1 mg/m³	

Amer. Conf. of Gov. Indust. Hyg. : American Conference of Governmental Industrial Hygienists
American Indust. Hygiene Assoc : American Industrial Hygiene Association
Chemical Manufacturer Rec. Guid.: Chemical Manufacturer's Recommended Guidelines
US Dept. of Labor - OSHA : United States Department of Labor - Occupational Safety and Health Administration
TWA: Time-Weighted-Average
STEL: Short Term Exposure Limit
CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Safety Glasses with side shields

Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing.
Gloves made from the following material(s) are recommended: Butyl Rubber
Fluoroelastomer
Polymer laminate

The following protective clothing material(s) are recommended: Apron – Butyl rubber
Apron - polymer laminate

Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:
Half facepiece or full facepiece air-purifying respirator suitable for organic vapors and particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

General Physical Form:	Solid
Specific Physical Form:	Paste
Odor, Color, Grade:	Black, slight odor
Odor threshold	*No Data Available*
pH	*Not Applicable*
Melting point	*No Data Available*
Boiling Point	*No Data Available*
Flash Point	No flash point
Evaporation rate	*Not Applicable*
Flammability (solid, gas)	Not Classified
Flammable Limits(LEL)	*Not Applicable*
Flammable Limits(UEL)	*Not Applicable*
Vapor Pressure	*Not Applicable*
Vapor Density	*Not Applicable*
Density	1.4 g/cm³
Specific Gravity	1.4 [*Ref Std:* WATER=1]
Solubility in Water	Negligible
Solubility- non-water	*No Data Available*
Partition coefficient: n-octanol/ water	*No Data Available*
Autoignition temperature	> 200 °C
Decomposition temperature	*No Data Available*

Viscosity	*Not Applicable*
Hazardous Air Pollutants	0.3 % weight [*Test Method:* Calculated]
VOC Less H^2O & Exempt Solvents	< 5 g/l [*Test Method:* calculated SCAQMD rule 443.1]
VOC Less H^2O & Exempt Solvents	< 1 % [*Test Method:* calculated per CARB title 2]
VOC Less H^2O & Exempt Solvents	< 0.05 lb/gal [*Test Method:* calculated SCAQMD rule 443.1]
Solids Content	> 95 %

SECTION 10: Stability and reactivity

10.1. Reactivity
This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

10.2. Chemical stability
Stable.

10.3. Possibility of hazardous reactions
Hazardous polymerization will not occur.

10.4. Conditions to avoid
Heat

10.5. Incompatible materials
Alcohols
Amines
Water

10.6. Hazardous decomposition products

Substance	Condition
None known.	

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation:
Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Allergic Respiratory Reaction: Signs/symptoms may include difficulty breathing, wheezing, cough, and tightness of chest.

Skin Contact:
Contact with the skin during product use is not expected to result in significant irritation. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Eye Contact:
Contact with the eyes during product use is not expected to result in significant irritation.

Ingestion:
No health effects are expected.

Carcinogenicity:

Ingredient	C.A.S. No.	Class Description	Regulation
Carbon Black	1333-86-4	Grp. 2B: Possible human carc.	International Agency for Research on Cancer

Additional Information:
Persons previously sensitized to isocyanates may develop a cross-sensitization reaction to other isocyanates.

Toxicological Data

Acute Toxicity

Name	Route	Species	Value
Overall product	Dermal		Data not available or insufficient for classification; calculated ATE > 5,000 mg/kg
Overall product	Ingestion		Data not available or insufficient for classification; calculated ATE > 5,000 mg/kg
Calcinated Kaolin	Ingestion	Rat	LD50 > 2,000 mg/kg
Urethane Polymers			Data not available or insufficient for classification
Plasticizer	Dermal	Rat	LD50 > 1,000 mg/kg
Plasticizer	Ingestion	Rat	LD50 > 5,000 mg/kg
Carbon Black	Dermal	Rabbit	LD50 > 3,000 mg/kg
Carbon Black	Ingestion	Rat	LD50 > 8,000 mg/kg
2-Ethylhexylal			Data not available or insufficient for classification
Surface treated silica	Dermal	Rabbit	LD50 > 5,000 mg/kg
Surface treated silica	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 0.691 mg/l
Surface treated silica	Ingestion	Rat	LD50 > 5,110 mg/kg
p,p'-Methylenebis (phenyl isocyanate)	Inhalation-Vapor		LC50 estimated to be 10 - 20 mg/l
p,p'-Methylenebis (phenyl isocyanate)	Dermal	Rabbit	LD50 > 5,000 mg/kg
p,p'-Methylenebis (phenyl isocyanate)	Inhalation-Dust/Mist (4 hours)	Rat	LC50 0.369 mg/l
p,p'-Methylenebis (phenyl isocyanate)	Ingestion	Rat	LD50 31,600 mg/kg
Dibutyltin dichloride			Data not available or insufficient for classification

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Calcinated Kaolin		Data not available or insufficient for classification
Urethane Polymers		Data not available or insufficient for classification
Plasticizer		Data not available or insufficient for classification
Carbon Black	Rabbit	No significant irritation
2-Ethylhexylal		Data not available or insufficient for classification
Surface treated silica	Rabbit	No significant irritation
p,p'-Methylenebis (phenyl isocyanate)	official classification	Irritant
Dibutyltin dichloride		Data not available or insufficient for classification

Serious Eye Damage/Irritation

Name	Species	Value
Calcinated Kaolin		Data not available or insufficient for classification
Urethane Polymers		Data not available or insufficient for classification
Plasticizer		Data not available or insufficient for classification
Carbon Black	Rabbit	No significant irritation
2-Ethylhexylal		Data not available or insufficient for classification
Surface treated silica	Rabbit	No significant irritation
p,p'-Methylenebis (phenyl isocyanate)	official classification	Severe irritant
Dibutyltin dichloride		Data not available or insufficient for classification

Skin Sensitization

Name	Species	Value
Calcinated Kaolin		Data not available or insufficient for classification
Urethane Polymers		Data not available or insufficient for classification
Plasticizer		Data not available or insufficient for classification
Carbon Black		Data not available or insufficient for classification
2-Ethylhexylal		Data not available or insufficient for classification
Surface treated silica	Human and animal	Not sensitizing
p,p'-Methylenebis (phenyl isocyanate)	official classification	Sensitizing
Dibutyltin dichloride		Data not available or insufficient for classification

Respiratory Sensitization

Name	Species	Value
Calcinated Kaolin		Data not available or insufficient for classification
Urethane Polymers		Data not available or insufficient for classification
Plasticizer		Data not available or insufficient for classification
Carbon Black		Data not available or insufficient for classification
2-Ethylhexylal		Data not available or insufficient for classification
Surface treated silica		Data not available or insufficient for classification
p,p'-Methylenebis (phenyl isocyanate)	Human	Sensitizing
Dibutyltin dichloride		Data not available or insufficient for classification

Germ Cell Mutagenicity

Name	Route	Value
Calcinated Kaolin		Data not available or insufficient for classification
Urethane Polymers		Data not available or insufficient for classification
Plasticizer		Data not available or insufficient for classification
Carbon Black	In Vitro	Not mutagenic
Carbon Black	In vivo	Some positive data exists, but the data is not sufficient for classification
2-Ethylhexylal		Data not available or insufficient for classification
Surface treated silica	In Vitro	Not mutagenic
p,p'-Methylenebis (phenyl isocyanate)	In Vitro	Some positive data exists, but the data is not sufficient for classification
Dibutyltin dichloride		Data not available or insufficient for classification

Carcinogenicity

Name	Route	Species	Value
Calcinated Kaolin			Data not available or insufficient for classification
Urethane Polymers			Data not available or insufficient for classification
Plasticizer			Data not available or insufficient for classification
Carbon Black	Dermal	Mouse	Not carcinogenic

Carbon Black	Ingestion	Mouse	Not carcinogenic
Carbon Black	Inhalation	Rat	Carcinogenic
2-Ethylhexylal			Data not available or insufficient for classification
Surface treated silica	Not Specified	Mouse	Some positive data exists, but the data is not sufficient for classification
p,p'-Methylenebis (phenyl isocyanate)	Inhalation	Rat	Some positive data exists, but the data is not sufficient for classification
Dibutyltin dichloride			Data not available or insufficient for classification

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
Calcinated Kaolin		Data not available or insufficient for classification			
Urethane Polymers		Data not available or insufficient for classification			
Plasticizer		Data not available or insufficient for classification			
Carbon Black		Data not available or insufficient for classification			
2-Ethylhexylal		Data not available or insufficient for classification			
Surface treated silica	Ingestion	Not toxic to female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
Surface treated silica	Ingestion	Not toxic to male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
Surface treated silica	Ingestion	Not toxic to development	Rat	NOAEL 1,350 mg/kg/day	during organogenesis
p,p'-Methylenebis (phenyl isocyanate)	Inhalation	Some positive developmental data exists, but the data is not sufficient for classification	Rat	NOAEL 0.004 mg/l	during organogenesis
Dibutyltin dichloride		Data not available or insufficient for classification			

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Calcinated Kaolin			Data not available or insufficient for classification			
Urethane Polymers			Data not available or insufficient for classification			
Plasticizer			Data not available or insufficient for classification			
Carbon Black			Data not available or insufficient for classification			
2-Ethylhexylal			Data not available or insufficient for classification			
Surface treated silica			Data not available or insufficient for classification			
p,p'-Methylenebis (phenyl isocyanate)	Inhalation	respiratory irritation	May cause respiratory irritation	official classification	NOAEL Not available	
Dibutyltin dichloride			Data not available or insufficient for classification			

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Calcinated Kaolin			Data not available or insufficient for classification			

Urethane Polymers			Data not available or insufficient for classification			
Plasticizer			Data not available or insufficient for classification			
Carbon Black	Inhalation	pneumoconiosis	Some positive data exists, but the data is not sufficient for classification	Human	NOAEL Not available	occupational exposure
2-Ethylhexylal			Data not available or insufficient for classification			
Surface treated silica	Inhalation	respiratory system silicosis	All data is negative	Human	NOAEL Not available	occupational exposure
p,p'-Methylenebis (phenyl isocyanate)	Inhalation	respiratory system	Causes damage to organs through prolonged or repeated exposure	Rat	LOAEL 0.004 mg/l	13 weeks
Dibutyltin dichloride			Data not available or insufficient for classification			

Aspiration Hazard

Name	Value
Calcinated Kaolin	Not an aspiration hazard
Urethane Polymers	Not an aspiration hazard
Plasticizer	Not an aspiration hazard
Carbon Black	Not an aspiration hazard
2-Ethylhexylal	Not an aspiration hazard
Surface treated silica	Not an aspiration hazard
p,p'-Methylenebis (phenyl isocyanate)	Not an aspiration hazard
Dibutyltin dichloride	Not an aspiration hazard

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

SECTION 12: Ecological information

Ecotoxicological information

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

Chemical fate information

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

SECTION 13: Disposal considerations

13.1. Disposal methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Dispose of completely cured (or polymerized) material in a permitted industrial waste facility. As a disposal alternative, incinerate uncured product in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

EPA Hazardous Waste Number (RCRA): Not regulated

SECTION 14: Transport Information

Please contact the emergency numbers listed on the first page of the SDS for Transportation Information for this material.

SECTION 15: Regulatory information

15.1. US Federal Regulations
Contact manufacturer for more information
311/312 Hazard Categories:

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - No

15.2. State Regulations
Contact manufacturer for more information

15.3. Chemical Inventories
Contact manufacturer for more information

15.4. International Regulations
Contact manufacturer for more information

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16: Other information

NFPA Hazard Classification
Health: 2 **Flammability:** 1 **Instability:** 0 **Special Hazards:** None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

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