

EnduraShield 4104 Hardener (Part B)

Safety Data Sheet (SDS)

Section 1 - Product and Company Identification

Trade Name: EnduraShield 4104 Hardener (All Version: Product Code: EnduraShield 4104-000 CL0A-01 Harden

Company:

Wolverine Coatings Corporation

5969 Highway 221 Roebuck, SC 29376 +1 (864) 587-3144

Product Use: Coatings

Emergency Contact:

ChemTel 24 Hr. US Emergency Number:

+1 (800) 255-3924

ChemTel 24 Hr. Worldwide Emergency Number:

+1 (813) 248-0585

Not recommended for: None Identified

Section 2 - Hazards Identification

GHS Ratings:

Eye Corrosive Eye irritant: Subcategory 2A, Reversible in 21 days 2A

Respiratory Respiratory sensitizer

sensitizer

Skin Sensitizer Skin Sensitizer

Aquatic toxicity C3 Acute toxicity > 10.0 but <= 100.0 mg/l and lack of rapid degradability

and log Kow >= 4 unless BCF < 500 and unless chronic toxicity > 1 mg/l

GHS Hazards

H317 May cause an allergic skin reaction

H319 Causes serious eye irritation

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

H412 Harmful to aquatic life with long lasting effects

GHS Precautions

P261 Avoid breathing dust/fume/gas/mist/vapours/spray

P264 Wash thoroughly after handling

Contaminated work clothing should not be allowed out of the workplace P272

P273 Avoid release to the environment

P280 Wear protective gloves/protective clothing/eye protection/face protection

P285 In case of inadequate ventilation wear respiratory protection

P321 Specific treatment (see label)

Wash contaminated clothing before reuse P363 P302+P352 IF ON SKIN: Wash with soap and water

P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a

position comfortable for breathing

P305+P351+P338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact

lenses if present and easy to do - continue rinsing

P333+P313 If skin irritation or a rash occurs: Get medical advice/attention

Get medical advice/attention P337+P313

P342+P311 Call a POISON CENTER or doctor/physician

P501 Dispose of contents/container in accordance with all local, regional, national, and

international regulations.

Signal Word: Danger



Section 3 - Composition / Information on Ingredients

Chemical Name	CAS number	Weight Concentration %
6-diisocyanato-	28182-81-2	90.00% - 100.00%

Section 4 - First Aid Measures

Inhalation: If affected, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.

Eye Contact: Immediately flush eyes for at least fifteen minutes with running water. Hold eyelids apart to ensure rinsing of the entire eye surface and lids with water. If eye irritation persists: Get medical advice/attention.

Skin contact: Immediately remove contaminated clothing and shoes. Wash affected areas thoroughly with soap and water. If irritation develops, seek medical attention.

Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person. If a person vomits when lying on his back, place him in the recovery position. Get immediate medical attention.

Section 5 - Fire Fighting Measures

Flash Point: 170 C (338 F) LEL: UEL:

Extinguishing Media: Use carbon dioxide, foam, dry chemical, dry sand, water fog, or limestone powder extinguishing systems.

Unusual Fire and Explosion Hazards: None

Hazardous combustion products: Irritating or toxic substances may be emitted upon burning, combustion or decomposition. See section 10 (Stability and Reactivity) for additional information.

Special Fire Fighting Procedures: Firefighters should be equipped with self-contained breathing apparatus.

Fire Equipment: No Data

Section 6 - Accidental Release Measures

Spill And Leak Procedures: Avoid all personal contact. Ensure cleanup personnel wear all appropriate Personal Protective Equipment (PPE), including respiratory protection. Spills should be contained, solidified, and placed in suitable containers for disposal.

Section 7 - Handling and Storage

Handling Precautions: Use good laboratory/workplace procedures. Wash thoroughly after handling this product. Always wash up before eating, smoking or using the facilities. Use under well-ventilated conditions. Avoid eye and skin contact. Avoid inhalation of aerosol, mist, spray, fume or vapor. Avoid drinking, tasting, swallowing or ingesting this product. Wash contaminated clothing before reuse. Discard shoes contaminated with this product.

Storage Requirements: Keep away from heat, sparks, and open flames. Store cool and dry, under well-ventilated conditions. Store this material away from incompatible substances (see section 10). Do not store in open, unlabeled or mislabeled containers. Keep container closed when not in use.

Section 8 - Exposure Controls / Personal Protection

Chemical Name / CAS #	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
6-diisocyanato- 28182-81-2	Not Established	Not Established	Not Established

Ventilation: Good general mechanical ventilation and local exhaust is recommended.

Hygiene: Eye wash must be easily accessible. Wear protective clothing as necessary to prevent contact. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. Gloves must be inspected regularly and prior to each use. Replace if necessary.

Personal Protective Equipment: Wear impervious protective gloves. Wear OSHA, NIOSH approved organic vapor respirator if ventilation is inadequate. Wear appropriate protective eyewear such as splash-proof, chemical resistant safety goggles.

Contaminated Gear: Take off all contaminated clothing immediately. Wash contaminated clothing before reuse.

Section 9 - Physical and Chemical Properties

This mixture typically exhibits the following properties under normal circumstances:

Appearance:	Liquid	Odor:	Not available
Vapor Pressure:	0.0010 mmHg	Odor threshold:	Not available
Vapor Density:	Not available	pH:	Not available
Density (g/cm3):	1.17	Melting point:	Not available
Freezing point:	Not available	Solubility:	Not available
Boiling range:	Not available	Flash point:	170 C, 338 F
Evaporation rate:	Not available	Flammability:	Not available
Explosive Limits:	Not available	Partition coefficient (n- octanol/water):	Not available
Autoignition temperature:	Not available	Decomposition temperature:	Not available
Viscosity:	Not available	Grams VOC less water:	Not available

Section 10 - Stability and Reactivity

Stability:

STABLE

Components of this mixture are incompatible with the following materials:

Strong Oxidizers

Strong Bases

Amines

Metals

Alcohols

Water

VValei

Surface active materials

This mixture is likely to exhibit the following combustion products:

Nitrogen Oxides Hydrogen cyanide Isocyanate

Hazardous polymerization will not occur.

Section 11 - Toxicological Information

Mixture Toxicity:

Component Toxicity:

28182-81-2 6-diisocyanato-

Oral LD50: 5,000 mg/kg (rat) Dermal LD50: 5,000 mg/kg (rabbit)

Routes of Entry:

Inhalation Skin Contact Eye Contact Ingestion

Exposure to this material may affect the following organs:

No Data

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 No Data

Section 12 - Ecological Information

Component Ecotoxicity:

Section 13 - Disposal Considerations

Waste disposal Methods: Dispose in accordance with Federal, State and Local regulations.

Section 14 - Transport Information

This material is classified for transport as follows:

<u>Agency Proper Shipping Name</u> <u>UN Number Packing Group Hazard Class</u>

DOT Non-Regulated N/A N/A N/A

IATA IMDG

Section 15 - Regulatory Information

Additional regulatory listings, where applicable:

State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains the following chemicals which are listed by the State of California as carcinogenic or a reproductive toxin:

- None

Materials not included on the Canada DSL inventory:

- None

Commonwealth of Massachusetts "Right to Know": This product contains the following toxic or hazardous substances which appear on the Massachusetts Substance List:

- None

NJ "Right to Know": This product contains the following toxic or hazardous substances which appear on the New Jersey Substance List:

6-diisocyanato- 28182-81-2

Pennsylvania "Right to Know": This product contains the following toxic or hazardous substances which appear on the Pennsylvania Substance List:

6-diisocyanato- 28182-81-2

EPA SARA Title III Section 313 (40 CFR 372) components above 'de minimum' level:

- None

Toxic Substances Control Act (TSCA): All chemicals except those listed below appear in the Toxic Substances Control Act Chemical Substance Inventory:

- None

Country Regulation All Components Listed

EU Risk Phrases

Safety Phrase

Toxic Substances Control Act (TSCA): All chemicals except those listed below appear in the Toxic Substances Control Act Chemical Substance Inventory:

- None

EPA SARA Title III Section 313 (40 CFR 372) compnenets above 'de minimum' level:

Section 16 - Other Information

For further information, please contact the Product Safety director. The information and recommendations contained herein are, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Final determination of suitability of the chemical is the sole responsibility of the user. Users of any chemical should satisfy themselves that the conditions and methods of use assure that the chemical is used safely. No representations or warranties, either expressed or implied of merchantability, fitness for a particular purpose, or any other nature, are made hereunder with respect to the information contained herein, or to the chemical to which the user refers.

Date Revised: 2019-11-25 Revision #: 1