

EnduraShield 2301 Hardener

(Part B)

Safety Data Sheet (SDS)

Section 1 - Product and Company Identification

Trade Name: EnduraShield 2301 Hardener (All Versions)

Company:

Wolverine Coatings Corporation 5969 US Highway 221 Roebuck, SC 29376 +1 (864) 587-3144 Product Code: 2301-003-CL1A-01-HAR

Emergency Contact:

ChemTel 24 Hr. US Emergency Number: +1 (800) 255-3924 ChemTel 24 Hr. Worldwide Emergency Number: +1 (813) 248-0585

Product Use: Coatings

Not Recommended For: None Identified

Section 2 - Hazards Identification

GHS Ratings:

<u></u>				
Serious eye	2A	Eye irritant: Subcategory 2A, Reversible in 21 days		
damage/eye				
irritation		_		
Respiratory	1	Respiratory sensitizer		
sensitization				
Skin sensitization	1	Skin Sensitizer		
Chronic aquatic	C3	Acute toxicity > 10.0 but <= 100.0 mg/l and lack of rapid degradability		
toxicity		and log Kow >= 4 unless BCF < 500 and unless chronic toxicity > 1 mg/l		
<u>GHS Hazards:</u>				
H317	Mav o	ause 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	bracthing duct/fuma/gaa/mict/vanaura/anray		
P264	Avoid breathing dust/fume/gas/mist/vapours/spray			
P204 P272	Wash thoroughly after handling			
P272 P273	Contaminated work clothing should not be allowed out of the workplace 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)			
P363	Wash contaminated clothing before reuse			
P302+P352	IF ON SKIN: Wash with soap and water			
P304+P341		IALED: If breathing is difficult, remove victim to fresh air and keep at rest in a		
		on comfortable for breathing		
P305+P351+P338		EYES: Rinse continuously with water for several minutes. Remove contact		
D000 + D040		s if present and easy to do – continue rinsing		
P333+P313		irritation or a rash occurs: Get medical advice/attention		
P337+P313		irritation persists, get medical advice/attention		
P342+P311		POISON CENTER or doctor/physician		
P501		se of contents/container in accordance with all local, regional, national, and		
	Interna	ational regulations.		

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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:166 C (331 F)LEL:UEL:Extinguishing Media:Use carbon dioxide, foam, dry chemical, dry sand, water fog, or limestone powderextinguishing 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.

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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):	1.16	Melting point:	Not available
Freezing point:	Not available	Solubility:	Not available
Boiling range:	Not available	Flash point:	166°C, 331°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 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 Toxic	-			
28182-81-2	6-diisocyanato-	10 ma/ka (rat) Derm	al LD50: 5,000 mg/kg	(rabbit)
Routes of Entry:				
Inhalation	Skin Contact	Eye Contact	Ingestion	
Exposure to this No Data	material may aff	ect the following (organs:	
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:

Agency	Proper Shipping Name	<u>UN Number</u>	Packing Group	Hazard Class
DOT	Non-Regulated	N/A	N/A	N/A

IATA

IMDG

Section 15 - Regulatory Information

Additional regulatory listings, where applicable:

<u>Country</u>

<u>Regulation</u>

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:

No Data

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.

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