

SAFETY DATA SHEET

Industrial / Professional Use Only



THE HANSON GROUP, LLC
GOOD PEOPLE, GREAT SCIENCE

Date Prepared : 05/01/2017

MSDS No : SRD5000A

PolyArmor SRD 5000 Part A [Isocyanate]**1. PRODUCT AND COMPANY IDENTIFICATION****PRODUCT NAME:** PolyArmor SRD 5000 Part A [Isocyanate]**RECOMMENDED USE:** Aromatic isocyanate for coating materials or adhesives for industrial or professional use**PRODUCT DESCRIPTION:** Aromatic Polyurea Isocyanate**MANUFACTURER**

The Hanson Group, LLC

3044 Adriatic Court

Peachtree Corners, GA 30071

Emergency Contact: 8:00AM - 5:00PM EST**Emergency Phone:** 770-495-9554**E-Mail/Website:** sales@hansonco.net / www.hansonco.net**24 HR. EMERGENCY TELEPHONE NUMBERS****CHEMTREC (US Transportation) :** (800) 424 - 9300**CHEMTREC (Outside USA) :** (703) 527 - 3887

EMERGENCY TELEPHONE NUMBER: Use only in the event of an emergency involving a spill, leak, fire, exposure, or accident involving chemicals. Within the USA, Canada, or US Virgin Islands, call CHEMTREC at 1-800-424-9300, 24 hours a day. Or, outside these areas, call (703) 527-3887. Collect calls are accepted.

2. HAZARDS IDENTIFICATION**GHS CLASSIFICATIONS**

Acute Toxicity (Inhalation), Category 3

Serious Eye Damage, Category 2A

Skin Corrosion, Category 2

Respiratory Sensitization, Category 1

Skin Sensitization, Category 1

Target Organ Toxicity (respiratory irritation), Category 3

Target Organ Toxicity (Repeated exposure), Category 1

GHS LABEL**According to Regulation 2012 OSHA Hazard Communications Standard: 29 CFR Part 1910.1200**Exclamation
markHealth
hazardSkull and
crossbones**SIGNAL WORD:** DANGER**HAZARD STATEMENTS**

H331: Toxic if inhaled.

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H319: Causes serious eye irritation.
 H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H317: May cause an allergic skin reaction.
 H335: May cause respiratory irritation.
 H372:: Causes damage to organs (Respiratory Tract) through prolonged or repeated exposure if inhaled.

PRECAUTIONARY STATEMENTS**Prevention:**

P260: Do not breathe dust/fume/gas/mist/vapours/spray.
 P271: Use only outdoors or in a well-ventilated area.
 P285: In case of inadequate ventilation wear respiratory protection.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.
 P270: Do not eat, drink or smoke when using this product.
 P264: Wash ... thoroughly after handling.
 P272: Contaminated work clothing should not be allowed out of the workplace.

Response:

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER/doctor/...
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337+P313: If eye irritation persists: Get medical advice/attention.
 P302+P352: IF ON SKIN: Wash with plenty of water/...
 P332+P313: If skin irritation occurs: Get medical advice/attention.
 P362+P364: Take off contaminated clothing and wash it before reuse.
 P312: Call a POISON CENTER/doctor/...if you feel unwell.

Storage:

P233: Keep container tightly closed.
 P405: Store locked up.
 P403: Store in a well-ventilated place.

Disposal:

P501: Dispose of contents/container to ...

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

30% of the mixture consists of ingredients of unknown acute inhalation toxicity

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
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Urethane Allophanate Based on MDI (NJTS Reg. No. 04499600-7094)	30 - 60	Trade Secret
Methylene Bisphenyl Isocyanate	15 - 40	101-68-8
Polyurethane Prepolymer	10 - 30	39420-98-9

4. FIRST AID MEASURES

EYES: Immediately flush with plenty of water for two minutes. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Have eyes examined and tested by medical personnel.

SKIN: Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

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

INHALATION: Remove person to fresh air. Get medical attention.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Dry Chemical, Foam, or Carbon Dioxide. Water spray may be used to keep fire exposed containers cool, dilute spills to nonflammable mixtures, protect personnel attempting to stop spill or leak and to disperse vapors.

EXPLOSION HAZARDS: None known.

FIRE EXPLOSION: None Expected.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, Carbon dioxide, Hydrogen Cyanide, Oxides of Nitrogen during combustion

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: 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.

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: Avoid contaminating waterways.

LAND SPILL: Avoid contaminating waterways.

AIR SPILL: Avoid contaminating waterways.

GENERAL PROCEDURES: Contain spill. Pour isocyanate decontaminant solution (90% water, 8% concentrated ammonia, 2% detergent) on spill and allow to react for 10 minutes. Or pour water on spill and allow to react for more than 30 minutes. Cover with absorbent material. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a

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container approved for transportation by appropriate authorities, but do not seal the container for 48 hours to avoid pressure build-up. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. Dispose of collected material as soon as possible.

7. HANDLING AND STORAGE

HANDLING: Avoid skin contact with hot material. Do not breathe 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. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

STORAGE: Store in a well-ventilated place. Keep container tightly closed to prevent contamination with water or air. If contamination is suspected, do not reseal container. Store away from heat. Store away from strong bases. Store away from oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**EXPOSURE GUIDELINES****OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)**

Chemical Name	EXPOSURE LIMITS			
	Type		ppm	mg/m ³
Methylene Bisphenyl Isocyanate	OSHA PEL	TWA	.02	.2
		STEL	.02	
	ACGIH TLV	TWA	.005	
		Supplier OEL	TWA	[1]
	STEL		[1]	[1]

OSHA TABLE COMMENTS:

1. Not Established

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.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear safety glasses with side shields (or goggles) and a face shield.

SKIN: S36/37: Wear suitable protective clothing and gloves.

RESPIRATORY: For respirator selection and training, seek professional advice. Whenever workplace conditions require a use of a respirator, follow a respiratory protection program that meets OSHA (29CFR 1910.134), MSHA (30 CFR Parts 56 & 57) and ANSI (Z88.2) requirements. Wear an OSHA/NIOSH approved respirator selected on its suitability to provide adequate worker protection for respirable particulates based on airborne workplace concentrations and duration of exposure arising

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from intended end use.

9. PHYSICAL AND CHEMICAL PROPERTIES**PHYSICAL STATE:** Liquid**ODOR:** Light musty to no odor.**ODOR THRESHOLD:** No data available**COLOR:** Clear to pale yellow**pH:** Not Applicable**FLASHPOINT AND METHOD:** > to (200°F) Closed Cup**VAPOR PRESSURE:** 0.001 mmHg**VAPOR DENSITY:** 8.5**BOILING POINT:** to (406°F)**MELTING POINT:** No data available**SOLUBILITY IN WATER:** Negligible**DENSITY:** 1.19**SPECIFIC GRAVITY:** 1.19 (water=1)**VISCOSITY #1:** 900 to 1300 Centipoise**(VOC):** 0 g/l**Notes:** When used as intended with Part B**10. STABILITY AND REACTIVITY****REACTIVITY:** This material is hazardous according to criteria of NOHSC. Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail.**STABILITY:** Stable.**CONDITIONS TO AVOID:** Heat**POSSIBILITY OF HAZARDOUS REACTIONS:** Not Applicable**HAZARDOUS DECOMPOSITION PRODUCTS:** None known.**INCOMPATIBLE MATERIALS:** Strong oxidizing agents, Water, Amines, Strong bases, Alcohols**11. TOXICOLOGICAL INFORMATION****ACUTE TOXICITY**

Chemical Name	ORAL LD ₅₀ (rat)	DERMAL LD ₅₀ (rabbit)	INHALATION LC ₅₀ (rat)
Methylene Bisphenyl Isocyanate	31600 mg/kg	> 5000 mg/kg	10 to 20 mg/l

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PolyArmor SRD 5000 Part A [Isocyanate]**313 REPORTABLE INGREDIENTS:** 4,4'-Diphenylmethane Diisocyanate (MDI)**TSCA (TOXIC SUBSTANCE CONTROL ACT)****TSCA STATUS:** All ingredients in this mixture are in compliance with TSCA.**REGULATIONS****STATE REGULATIONS:** Massachusetts, New Jersey or Pennsylvania right-to-know substance list:

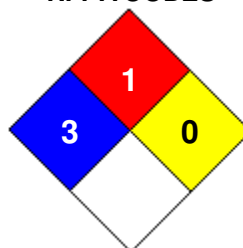
30 - 60%	4,4'-Diphenylmethane Diisocyanate (MDI)	101-68-8
>=1%	Allophanate Modified Diphenylmethane Diisocyanate	201615-11-4
15 - 25%	Polyurethane Prepolymer based on MDI	68083-75-0

CALIFORNIA PROPOSITION 65: To the best of our knowledge, this product does not contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm.**16. OTHER INFORMATION**

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HMIS RATING

HEALTH	<input type="checkbox"/>	2
FLAMMABILITY	<input type="checkbox"/>	1
PHYSICAL HAZARD	<input type="checkbox"/>	1
PERSONAL PROTECTION	<input checked="" type="checkbox"/>	X

NFPA CODES

MANUFACTURER DISCLAIMER: This SDS to the best of our knowledge conforms to the requirements of 2012 OSHA Hazard Communication Standard 29 CFR 1910.1200, and summarizes the health and safety hazard information and general guidance on how to safely handle the material at the date of issue. Each user must review the SDS in the context of how the product will be handled and used in the workplace. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. Responsibility for the product sold is subject to our standard terms and conditions, a copy of which is available upon request. This company warrants only that its products meet the specifications stated in the sales contract. Typical properties, where stated, are to be considered as representative of current production and should not be treated as specifications. While all the information presented in this document is believed to be reliable and to represent the best available data on these products, NO GUARANTY, WARRANTY, OR REPRESENTATION IS MADE, INTENDED, OR IMPLIED AS TO THE CORRECTNESS, OR SUFFICIENCY OF ANY INFORMATION, OR AS TO THE MERCHANTABILITY OR SUITABILITY OR FITNESS OF ANY CHEMICAL COMPOUNDS OR OTHER PRODUCTS FOR ANY PARTICULAR USE OR PURPOSE, OR THAT ANY CHEMICAL COMPOUNDS OR OTHER PRODUCTS OR THE USE THEREOF ARE NOT SUBJECT TO A CLAIM BY A THIRD PARTY FOR INFRINGEMENT OF ANY PATENT OR OTHER INTELLECTUAL PROPERTY RIGHT. Some of the information presented and conclusions drawn herein are from sources other than direct test data on the product itself. Liability by this company for all claims, whether arising out of breach of warranty, negligence, strict liability, or otherwise, is limited to the purchase price of the material. Products may be toxic and require special precautions in handling. For all products listed, the user should obtain detailed information on toxicity, together with the proper shipping, handling and storage procedures, and comply with all applicable safety and environmental standards. Toxicity and risk

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characteristics of chemical compounds and other products may differ when used with other materials or in a manufacturing or other process. Those risk characteristics should be determined by the user and made known to handlers, processors, and end users.