



# PRODUCT SAFETY INFORMATION SHEET

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

TRADE NAME: XRD™ Impact With Polyester Backer

CHEMICAL FAMILY: Urethane Polymer

HMIS RATING: H 0 F 1 R 0

USE OF ARTICLE: Various impact protection applications.

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COMPANY/UNDERTAKING IDENTIFICATION: Rogers Corporation  
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## 2. COMPOSITION/INFORMATION ON INGREDIENTS

This material is produced as an “article” as defined in 20 CFR 1910.1200 and REGULATION (EC) N° 1907/2006 is therefore exempt from the Hazard Communication Standard and REACH. Since this material does not release and will not result in exposure to a hazardous chemical under normal conditions of use, no Safety Data Sheet is required.

<u>Chemical Name</u>	<u>CAS No.</u>	<u>FINECS</u> <u>/ELINCS</u>	<u>%</u>	<u>OSHA PEL</u>	<u>ACGIH</u> <u>TLV</u>	<u>China</u> <u>OEL</u>
Alumina Trihydrate	21645-51-2	244-492-7	<20	15 mg/m <sup>3</sup> (Total Dust)	10 mg/m <sup>3</sup> (as AL)	NE
Silica, amorphous, diatomaceous earth	68855-54-9	272-489-0	<1	NE	NE	NE
Carbon Black ( in black material)	1333-86-4	215-609-9	<1	3.5 mg/m <sup>3</sup>	3.5 mg/m <sup>3</sup>	NE

## 3. HAZARDS IDENTIFICATION

CLASSIFICATION OF THE MATERIAL: NE

LABELING REQUIREMENTS: NE

EFFECTS OF OVEREXPOSURE: None are expected with normal handling. Cutting and other finishing operations may create polyurethane dust. Ventilation and personnel protection should be similar to all operations generating nuisance dust.

INHALATION:	Dust may cause respiratory irritation. Remove to fresh air and seek medical attention if necessary.
EYE CONTACT:	Dust may cause irritation. Flush eyes with water and seek medical attention if necessary.
SKIN CONTACT:	Dust may cause irritation. Wash thoroughly with soap and water.
INGESTION:	None known.
CHRONIC:	NE

#### 4. FIRST-AID MEASURES

INHALATION:	Remove to fresh air. Obtain medical attention if symptoms persist.
EYE CONTACT:	Flush eyes with large amounts of water for 15 to 20 minutes. Obtain medical attention if symptoms persist.
SKIN CONTACT:	Remove contaminated clothing and flush area with water for 15 to 20 minutes. Obtain medical attention if symptoms persist.
INGESTION:	NA

#### 5. FIRE-FIGHTING MEASURES

FLASH POINT:	NE °C (°F)	Flammable Limits:	LEL	NA	UEL	NA
AUTOIGNITION TEMPERATURE:	NE °C (°F)					
EXTINGUISHING MEDIA:	<u>X</u> Water Spray	<u>X</u> Foam	<u>X</u> CO <sub>2</sub>			
	<u>X</u> Dry Chemical	<u>X</u> Other –				
SPECIAL FIRE FIGHTING PROCEDURES:	Decomposition in a fire may produce toxic fumes. Firefighters should be equipped with self-contained breathing apparatus and turnout gear.					
UNUSUAL FIRE AND EXPLOSION HAZARDS:	Polyurethane materials may generate dense smoke in a fire.					

#### 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:	None needed.
ENVIRONMENTAL PRECAUTIONS:	None needed.
CLEANING METHODS:	Sweep or shovel into appropriate container for disposal. Avoid creation of nuisance dust.

#### 7. HANDLING AND STORAGE

HANDLING:	Avoid breathing dust. Hot wire cutting operations should be exhausted to prevent exposure to irritating vapors. Wear suitable protective equipment, refer to Section 8.
STORAGE:	Keep in a cool, well-ventilated area.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION:	None needed under normal conditions. If material is heated and odors are noticeable and/or irritating a respirator meeting NIOSH requirements should be used. A qualified individual should evaluate each situation.
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## VENTILATION

LOCAL: Recommended for all industrial operations.  
GENERAL: Recommended for all industrial operations.

## PERSONAL PROTECTION

HAND: Gloves to avoid skin contact if desired.  
EYE: Safety glasses with side-shields are recommended in all industrial operations.  
SKIN: None required.  
OTHER: Safety shower/eyewash in the area.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Solid, Cellular polyurethane foam, polyester backed (Various Colors Available)  
ODOR: Slight Odor  
PHYSICAL STATE: Solid  
BOILING POINT: NA °C (°F)  
MELTING POINT: NE °C (°F)  
FREEZING POINT: NA °C (°F)  
FLASH POINT: NE °C (°F)  
WATER SOLUBILITY: Insoluble  
VAPOR DENSITY: NA  
VAPOR PRESSURE: NA  
SPECIFIC GRAVITY: 0.2-0.53 (Water = 1)  
PARTITION COEFFICIENT: NA  
EVAPORATION RATE: NA  
RELATIVE DENSITY: NA  
VISCOSITY: NA  
AUTO-IGNITION TEMPERATURE: NA °C (°F)  
DECOMPOSITION TEMPERATURE: NA °C (°F)  
PH: NA  
FLAMMABILITY: NA

## 10. STABILITY AND REACTIVITY

STABLE  UNSTABLE

CONDITIONS TO AVOID: NE  
MATERIALS TO AVOID: NE  
HAZARDOUS POLYMERIZATION:  May Occur  Does Not Occur  
HAZARDOUS DECOMPOSITION PRODUCTS: By fire and thermal decomposition: CO, CO<sub>2</sub>, Oxides of nitrogen, HCN, 4,4'-Diphenylmethane Diisocyanate (MDI), Toluene Diisocyanate (TDI), aldehydes, acrylonitrile, organic particulate, polymer fragments, gaseous hydrocarbons, traces of incompletely burned carbon compounds, and other toxic fumes.

## 11. TOXICOLOGICAL INFORMATION

CARCINOGENIC STATUS: NA

## 12. ECOLOGICAL INFORMATION

ECOTOXICITY: NA

## 13. DISPOSAL CONSIDERATION

PHYSICAL/CHEMICAL PROPERTIES AFFECTING DISPOSAL: None

ENVIRONMENTAL TOXICITY DATA: NA  
WASTE DISPOSAL METHOD: Dispose of in accordance with applicable federal, state, provincial, and local laws and regulations.

#### 14. TRANSPORT INFORMATION

UN NUMBER: Not Regulated  
UN PROPER SHIPPING NAME: Not Regulated  
HAZARD CLASS (ES): Not Regulated  
PACKING GROUP: Not Regulated  
ENVIRONMENTAL HAZARDS: NE

#### 15. REGULATORY INFORMATION

INTERNATIONAL REGULATIONS:  
Canadian (DSL/NDSL): Listed  
Australian (ACIS): NE  
Korea (KECI): NE  
Japan (ENCS, MITI): NE  
China (IESCS): Article - exempt  
EU Directive 2011/65/EC (RoHS): Does not contain any intentionally added substances mentioned by the RoHS directive.  
TSCA  
(Toxic Substances Control Act): All materials are listed or exempt from TSCA listing.  
CERCLA  
(Comprehensive Emergency Response, Compensation, and Liability Act): NA  
SARA TITLE III  
(Superfund Amendments and Reauthorization Act): NA  
311/312 HAZARD CATEGORIES: None

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and 40 CFR 372:

<u>CAS #</u>	<u>CHEMICAL NAME</u>	<u>PERCENT BY WEIGHT</u>
NA	NA	NA

#### 16. OTHER INFORMATION

NA = Not Applicable  
NE = Not Established  
NC = Not Classified

FILE: 99340-XRD Impact With Polyester Backer  
PSIS- 03242017.doc

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