



**WesBond Corporation
Safety Data Sheet**

Westar+, Westar+3

Revision Date: 03/30/2015	Supersedes: 09/26/2014	First Issued: 01/01/1999
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Section 1. Product and Company Identification

1.1 Product Identifier	
Trade Name	Westar+, Westar+3
Product Description and Use	Industrial Starch
1.2 Relevant identified uses of the substance and restrictions on use	
Use of the substance	Binder for Refractory Fiber Bonding
1.3 Details of the supplier of the safety data sheet	
Company	Wesbond Corporation 1135 East 7 th St Wilmington, DE 19801
Telephone	302-655-7917
Fax	302-656-7885
E-mail address	sales@wesbond.com
Web site	www.wesbond.com
Contact	Wes M Jones
Approved by	Wes M Jones
1.4 Emergency telephone number	
US – CHEMTREC (24 hrs)	800-424-9300
CANADA – CANUTEC (24 hrs)	613-996-6666
MSDS and Product Information (0800 – 1630 EST)	302-655-7917



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Section 2. Hazard Identification	
2.1 Classification of the substance	
	Not Classified.
2.2 Label elements	
Signal Word	Warning
Pictogram	
Hazard statements	
H320	Causes mild eye irritation.
Precautionary Statements	
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P202	Do not handle until all safety precautions have been read and understood.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501	Dispose of contents /container in accordance with local/regional/national/international regulations.
2.3 Other hazards	

Section 3. Composition / Information on Ingredients		
3.1 Substance		
Component	CAS Number	Concentration (wt %)
Modified Starch	56780-58-6	100%
3.2 For Mixtures		
Not applicable, this product is a substance		
The specific chemical identity and/or exact percentage (concentration) has been withheld as a trade secret.		



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Section 4. First Aid Measures	
4.1 Description of first aid measures	
General Advice	<ul style="list-style-type: none"> Show this safety datasheet to the doctor in attendance. First responder needs to protect herself..
INHALATION	<ul style="list-style-type: none"> Negligible or unlikely exposure pathway.
SKIN	<ul style="list-style-type: none"> Wash with water, use skin cream if necessary. Remove all contaminated clothing, and launder before reuse.
EYES	<ul style="list-style-type: none"> Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical advice.
INGESTION	<ul style="list-style-type: none"> Immediately rinse mouth with water. Finally drink water. If necessary seek medical attention.
4.2 Most important symptoms and effects, both acute and delayed	
Medical Conditions Possibly Aggravated By Exposure	<ul style="list-style-type: none"> Skin contact may aggravate existing skin disease.
4.3 Indication of any immediate medical attention and special treatment needed	
Notes to physician	<ul style="list-style-type: none"> All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. Treat symptomatically. No specific antidote available.

Section 5. Fire Fighting Measures	
5.1 Extinguishing Media	
Suitable extinguishing media	Any. Use media appropriate for surrounding fire.
Unsuitable extinguishing media	None.
5.2 Special hazards arising from the substance or mixture	
Specific hazards during firefighting/ Specific hazards arising from the chemical	Dust-air mixture may be explosive. Minimum ignition temperature reported for starch, through a 200 mesh, is 380 deg C (716 deg F). The minimum explosive concentration of a dust cloud is 0.04 oz./cu.ft. Avoid open lights, flames, welding and spark producing sources.
5.3 Advice for firefighters	
Special protective equipment for firefighters	Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.
Further information	None.



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Section 6. Accidental Release Measures	
6.1 Personal precautions, protective equipment and emergency procedures	
Personal precautions, protective equipment and emergency procedures	<ul style="list-style-type: none"> Wear appropriate protective gear for the situation. For further information see Personal Protection information in Section 8.
6.2 Environmental precautions	
Environmental and Regulatory Reporting	<ul style="list-style-type: none"> Do not flush to drain. Spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies.
6.3 Methods and materials for containment and cleaning up	
Recovery	<ul style="list-style-type: none"> Stop leak if safe to do so. Shovel or sweep up. Never return spills to original containers for re-use. Keep in properly labeled containers. Keep in suitable closed containers for disposal.
Decontamination/cleaning	<ul style="list-style-type: none"> Wash non-recoverable remainder with large amounts of water. Clean contaminated surface thoroughly. Recover the cleaning water for subsequent disposal. Decontaminate tools, equipment and personal protective equipment in a segregated area.
Disposal	<ul style="list-style-type: none"> Dispose of in accordance with local regulations.
Additional advice	<ul style="list-style-type: none"> Material can create slippery conditions. For personal protection see section 8
6.4 References to other sections	
	7. Handling and Storage 8. Exposure Controls/Personal Protection 13. Disposal Considerations.

Section 7. Handling and Storage	
7.1 Precautions for safe handling	
Technical measures	<ul style="list-style-type: none"> Provide adequate ventilation.
Advice on safe handling and usage	<ul style="list-style-type: none"> Handle in accordance with good industrial hygiene and safety practice.. Avoid direct or prolonged contact with skin and eyes.
Hygiene measures	Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:



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	<ol style="list-style-type: none"> 1) Do not store, use and /or consume food, beverages, tobacco products, or cosmetics in areas where this material is stored. 2) Wash hand and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet. 3) Wash exposed skin promptly to remove accidental splashes or contact with material.
7.2 Conditions for safe storage, including any incompatibilities	
Requirement for storage areas and containers	Store in tightly closed containers. Store in an area that is dry, well-ventilated, away from incompatible materials (see Section 10. Stability and Reactivity).
Minimum/Maximum Storage Temperatures	Ambient.
Usual Shipping Containers	Kraft paper bags on skids.
Advice on common storage	Avoid practices which produce dust. Store away from heat, flame, and spark source.
Storage and Handling Materials	Kraft paper bags.

Section 8. Exposure Controls/Personal Protection			
Introductory Remarks		<p>These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and piping systems for maintenance and repairs. Waste resulting from these procedures should be handled in accordance with Section 13: Disposal Considerations.</p> <p>Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.</p>	
8.1 Control Parameters			
Component	CAS Number	Value	Basis
Modified Starch	56780-58-6	None	PEL-OSHA
Modified Starch	56780-58-6	None	TLV-ACGIH
8.2 Exposure controls			
Engineering Controls			
		<p>Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures:</p> <p>No specific measures required.</p>	



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8.3 Personal Protective Equipment	
Eyes	<ul style="list-style-type: none"> • Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material. • Eye contact should be prevented through use of chemical safety glasses with side shields or splash proof goggles. An emergency eye wash must be readily accessible to the work area.
Hand protection	<ul style="list-style-type: none"> • Recommended preventive skin protection: Gloves. • Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts and abrasion, and the contact time.
Skin	<ul style="list-style-type: none"> • Impervious clothing. • Footwear protecting against chemicals.
Respiratory Protection	<ul style="list-style-type: none"> • When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations. • For reasonably foreseeable industrial end uses of this material, respiratory protection should not be necessary.
Personal Hygiene	<p>Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:</p> <ol style="list-style-type: none"> (1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored. (2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet. (3) Wash exposed skin promptly to remove accidental splashes or contact with this material.
Protective measures	<ul style="list-style-type: none"> • The protective equipment must be selected in accordance with current local standards and in cooperation with supplier of the protective equipment. • Ensure that eyewash stations and safety showers are close to the workstation location. • Emergency equipment immediately accessible, with instructions for use. • Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the potential hazards and/or risks that may occur during use.
General Hygiene	Equipment in contact with material should be rinsed with water prior to repair and maintenance.

Section 9. Physical and Chemical Properties



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9.1 Information on basic physical and chemical properties	
Appearance:	Solid white flake
Odor:	Characteristic
Odor threshold:	Not Available
pH	5.0 – 8.0 (4% solution)
Melting/Freezing point	Not applicable.
Initial boiling point and boiling range	Not applicable.
Flash point:	no data available
Evaporation Rate	no data available
Flammability (solid/gas)	no data available
Upper/lower flammability or explosive limits	Nonflammable.
Vapor pressure	Not applicable.
Vapor density	Not applicable.
Relative density	0.25 – 0.40 (water = 1.0)
Solubilities	Water: appreciable
Partition Coefficient: n-octanol/water	no data available
Auto-ignition temperature	no data available
Decomposition Temperature	no data available
Viscosity, Dynamic	no data available
Viscosity, Kinematic	no data available
Explosive Properties	no data available
Oxidizing Properties	Not classified as oxidizing.
9.2 Other Information	
This safety datasheet contains only information relating to safety and does not replace any product information or product specification.	

Section 10. Stability and Reactivity	
10.1 Reactivity	No data available
10.2 Chemical Stability	This material is stable under normal handling and storage conditions described in Section 7.
10.3 Possibility Of Hazardous Reactions	No dangerous reaction known under conditions of normal use.
10.4 Conditions To Avoid	
Conditions to avoid	Dust-air mixture may be explosive. Minimum ignition temperature reported for starch, through a 200 mesh, is 380 deg C (716 deg F). The minimum explosive concentration of a dust cloud is 0.04 oz./cu.ft. Avoid open lights, flames, welding and spark producing sources. Damp or wet conditions will lead to spoilage.
10.5 Incompatible Materials	



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Materials to avoid	Strong oxidizing agents.
10.6 Hazardous Decomposition Products	
Hazardous decomposition products	Oxides of carbon.
Hazardous polymerization	Will not occur.

Section 11. Toxicological Information	
11.1 Likely routes of exposure	
Inhalation	Inhalation not likely.
Skin	Likely mode of exposure.
Eyes	Likely mode of exposure.
Ingestion	Ingestion not likely.
11.2 Symptoms related to the physical, chemical and toxicological characteristics	
Inhalation	Irritant. Can cause irritation..
Skin	None.
Eyes	Irritant. Can cause redness, irritation..
Ingestion	None.
11.3 Immediate, delayed and chronic effects from short- and long-term exposure	
Chronic effects	This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens.
11.4 Numerical measures of toxicity	
Acute Oral Toxicity	No data available
Acute Inhalation Toxicity	No data available
Acute Dermal Toxicity	No data available
Acute Respiratory Irritation	No data available
Acute Skin Irritation	No data available
Acute Eye Irritation	No data available.
11.5 Carcinogenicity	
	This product does not contain any ingredient designated as probable or suspected human carcinogens by: NTP, IARC, OSHA, ACGIH

Section 12. Ecological Information	
12.1 Ecotoxicity	
Aquatic Compartment	No data available
Ecotoxicity assessment	No data available
12.2 Persistence and degradability	
Biodegradability	No data available
12.3 Bioaccumulative potential	



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Partition coefficient: n-octanol/water	No data available.
12.4 Mobility in soil	
Known distribution to environmental compartments	<ul style="list-style-type: none"> • Ultimate destination of the material: water. • Ultimate destination of the material: sediment
12.5 Results of PBT and vPvB assessment	
Results of PBT and vPvB assessment	No data available.
12.6 Other Adverse Effects	No data available

Section 13. Disposal Considerations	
13.1 Waste Disposal Method	
Advice on disposal	Chemical additions, processing or otherwise altering this material may make the waste management information presented in this SDS incomplete, inaccurate or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material.
Waste Code	EPA: hazardous waste: NO
13.2 Contaminated packaging	
Advice	<ul style="list-style-type: none"> • Any containers or equipment used should be decontaminated immediately after use. • Empty container should be taken to an approved waste handling site for recycling or disposal.

Section 14. Transport Information	
14.1 UN number	Not applicable
14.2 Proper shipping name	Not regulated
14.3 Transport hazard class	Not classified as dangerous for transport.
14.4 Packing group	Not applicable
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	Not applicable



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Section 15. Regulatory Information	
15.1 Safety, health and environmental regulations/legislation specific for the substance.	
U.S. TSCA	No Information
15.2 US Federal Regulations	
SARA 302	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 311/312	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 311/312.
SARA 313	No information.
EPCRA – Emergency Planning and Community Right-To-Know	CERCLA
CERCLA Reportable Quantity	None.
SARA 302 Reportable Quantity	None.
SARA 304 Reportable Quantity	None.
15.3 State Regulations	
California Proposition 65	Not subject to California Proposition 65.

Section 16. Other Information	
HMIS – National Paint & Coating Hazardous Materials Identification System	
1	Health Hazard Rating - Slight
0	Flammability Rating – Minimal
0	Reactivity Rating - Minimal
B	Personal Protection – Safety Glasses, Gloves
NFPA – National Fire Protection Association Hazard Ratings	
1	Health Hazard Rating - Slight
0	Flammability Rating – Minimal
0	Instability Rating - Minimal



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Abbreviations			
ACGIH	American Conference of Governmental Industrial Hygienists	NIOSH	National Institute for Occupational Safety and Health
CAS	Chemical Abstract Service	OSHA	Occupational Safety and Health Administration
HMIS	National Paint & Coating Hazardous Materials Identification System	SARA	Superfund Amendment and Reauthorization Act
IARC	International Agency for Research on Cancer	PEL	Permissible Exposure Limit
N/A	Not Applicable	TLV	Threshold Limit Value
NFPA	National Fire Protection Association Hazard Ratings	TWA	Time Weighted Average

The information on this safety data sheet is believed to be accurate and it is the best information available to WesBond Corporation. This document is intended only as a guide to the appropriate precautions for handling a chemical by a person trained in chemical handling. WesBond Corporation makes no warranty of merchantability or any other warranty, express or implied with respect to such information of the product to which it relates, and we assume no liability resulting from the use or handling of the product to which this safety data sheet relates. Users and handlers of this product should make their own investigations to determine the suitability of the information provided herein for their own purposes.