



**WesBond Corporation  
Safety Data Sheet**

**Wesoflok IF**

Revision Date: 03/20/2025	Supersedes: 10/01/2020	First Issued: 01/01/1999
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**Section 1. Product and Company Identification**

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

**Section 2. Hazard Identification**

<b>2.1 Classification of the substance</b>	
Carcinogenicity	Category 1A
Specific target organ toxicity - repeated exposure (Inhalation)	Category 1 (Lungs)
Specific target organ toxicity - repeated exposure (Inhalation)	Category 2 (Immune system, Kidney)
<b>2.2 Label elements</b>	
Signal word	Danger



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Pictogram	
<b>Hazard statements</b>	
H350	May cause cancer.
H372	Causes damage to organs (Lungs) through prolonged or repeated exposure if inhaled.
H373	May cause damage to organs (Immune system, Kidney) through prolonged or repeated exposure if inhaled.
<b>Precautionary Statements</b>	
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.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust.
P270	Do not eat, drink or smoke when using this product.
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.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P405	Store locked up.
P501	Dispose of contents /container in accordance with local/regional/national/international regulations.
<b>2.3 Other hazards</b>	
<b>Hazards Not Otherwise Classified</b>	No hazards to be specially mentioned.
<b>Emergency Overview</b>	CAUTION: This product can contain a small amount of free respirable Crystalline (quartz) Silica which has been listed as a human carcinogen by NTP (Group 1) and IARC (Reasonably Anticipated to be a Human Carcinogen) and a Suspected Human Carcinogen by ACGIH (category A2).

<b>Section 3. Composition / Information on Ingredients</b>
<b>3.1 Substance</b>
Not applicable, this product is a mixture
<b>3.2 For Mixtures</b>



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Component	CAS Number	Concentration (wt %)
Magnesia Alumina Silicate	Proprietary	balance
Crystalline silica, quartz	14806-60-7	>= 5 - < 10
Magnesium Oxide	1309-48-4	>= 1 - < 5
Metal salt	Proprietary	<5%
The specific chemical identity and/or exact percentage (concentration) has been withheld as a trade secret.		

<b>Section 4. First Aid Measures</b>	
<b>4.1 Description of first aid measures</b>	
<b>General Advice</b>	<ul style="list-style-type: none"> <li>Show this safety datasheet to the doctor in attendance.</li> <li>First responder needs to protect herself..</li> </ul>
<b>INHALATION</b>	<ul style="list-style-type: none"> <li>If exposed to excessive levels of dust or fumes, remove to fresh air and get medical attention. Get medical attention if cough and other symptoms develop.</li> <li>If you feel unwell, seek medical advice (show the label where possible).</li> </ul>
<b>SKIN</b>	<ul style="list-style-type: none"> <li>Wash with water, use skin cream if necessary.</li> <li>Remove all contaminated clothing, and launder before reuse.</li> </ul>
<b>EYES</b>	<ul style="list-style-type: none"> <li>Do not rub affected area.</li> <li>Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.</li> <li>Obtain medical attention.</li> </ul>
<b>INGESTION</b>	<ul style="list-style-type: none"> <li>Immediately rinse mouth with water. Finally drink water.</li> <li>If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel.</li> </ul>
<b>4.2 Most important symptoms and effects, both acute and delayed</b>	
	<ul style="list-style-type: none"> <li>There are no acute and delayed symptoms and effects observed.</li> </ul>
<b>4.3 Indication of any immediate medical attention and special treatment needed</b>	
Notes to physician	<ul style="list-style-type: none"> <li>All treatments should be based on observed signs and symptoms of distress in the patient.</li> <li>Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.</li> <li>Treat symptomatically. No specific antidote available.</li> </ul>

<b>Section 5. Fire Fighting Measures</b>	
<b>5.1 Extinguishing Media</b>	
Suitable extinguishing media	<ul style="list-style-type: none"> <li>The product itself does not burn.</li> <li>Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.</li> <li>Water spray jet</li> <li>Dry powder</li> </ul>



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	<ul style="list-style-type: none"> <li>• Foam</li> <li>• Carbon dioxide (CO<sub>2</sub>)</li> </ul>
Unsuitable extinguishing media	None.
<b>5.2 Special hazards arising from the substance or mixture</b>	
Specific hazards during firefighting/ Specific hazards arising from the chemical	<ul style="list-style-type: none"> <li>• The product is not flammable.</li> <li>• Does not sustain combustion.</li> <li>• No hazardous decomposition products are known.</li> </ul>
<b>5.3 Advice for firefighters</b>	
Special protective equipment for firefighters	Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.
Further information	None.

<b>Section 6. Accidental Release Measures</b>	
<b>6.1 Personal precautions, protective equipment and emergency procedures</b>	
Personal precautions, protective equipment and emergency procedures	<ul style="list-style-type: none"> <li>• Ensure adequate ventilation.</li> <li>• Evacuate personnel to safe areas.</li> <li>• Avoid contact with skin, eyes and clothing.</li> <li>• Wear personal protective equipment.</li> <li>• Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust).</li> <li>• Special sliding risk through leaking of spilled product in connection with water.</li> <li>• Wearing appropriate personal protective equipment, contain spill and collect into a suitable container.</li> <li>• Minimize airborne particulates.</li> <li>• Keep container tightly closed.</li> <li>• Scoop into suitable containers appropriate for either recovery or disposal to avoid exposure and to comply with applicable waste disposal regulations.</li> <li>• Do not use compressed air for cleaning purposes.</li> <li>• Contaminated surfaces will be extremely slippery.</li> <li>• Do not flush with water.</li> <li>• Do not walk through spilled material.</li> <li>• Clear spills immediately.</li> <li>• Spill area should be mopped after all dry material is scooped up. Dry floors thoroughly after mopping.</li> <li>• Refer to Section 8 for more information.</li> </ul>
<b>6.2 Environmental precautions</b>	



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Environmental and Regulatory Reporting	<ul style="list-style-type: none"> <li>Do not flush to drain.</li> <li>Spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies.</li> </ul>
<b>6.3 Methods and materials for containment and cleaning up</b>	
Recovery	<ul style="list-style-type: none"> <li>Contain spillage and scoop up or vacuum. Do not use cleaning method that will generate dust that will exceed the PEL. .</li> <li>Transfer to a container for disposal according to local/national regulations (see section 13).</li> <li>Never return spills to original containers for re-use.</li> <li>Keep in suitable closed containers for disposal.</li> </ul>
Decontamination/cleaning	<ul style="list-style-type: none"> <li>Clean contaminated surface thoroughly.</li> <li>Decontaminate tools, equipment and personal protective equipment in a segregated area.</li> </ul>
Disposal	<ul style="list-style-type: none"> <li>Dispose of in accordance with local regulations.</li> </ul>
Additional advice	<ul style="list-style-type: none"> <li>Material can create slippery conditions when wet.</li> <li>For personal protection see section 8</li> </ul>
<b>6.4 References to other sections</b>	
	7. Handling and Storage 8. Exposure Controls/Personal Protection 13. Disposal Considerations.

<b>Section 7. Handling and Storage</b>	
<b>7.1 Precautions for safe handling</b>	
Technical measures	<ul style="list-style-type: none"> <li>Provide adequate ventilation.</li> </ul>
Advice on safe handling and usage	<ul style="list-style-type: none"> <li>Handle in accordance with good industrial hygiene and safety practice.</li> <li>Avoid breathing dusts.</li> <li>Avoid direct or prolonged contact with skin and eyes.</li> </ul>
Hygiene measures	<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"> <li>Do not store, use and /or consume food, beverages, tobacco products, or cosmetics in areas where this material is stored.</li> <li>Wash hand and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.</li> <li>Wash exposed skin promptly to remove accidental splashes or contact with material.</li> </ol>
<b>7.2 Conditions for safe storage, including any incompatibilities</b>	
Requirement for storage areas and containers	Store in tightly closed containers. Store in an area that is dry, well-ventilated, away from compatible materials (see Section 10. Stability and Reactivity).



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Minimum/Maximum Storage Temperatures	Ambient.
Usual Shipping Containers	Pails, drums.
Advice on common storage	No special restrictions on storage with other products
Storage and Handling Materials	Plastic lined or stainless steel drums.

**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>
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**8.1 Control Parameters**

Component	CAS Number	Type of Exposure	Value	Basis
Crystalline Silica, quartz	14806-60-7	TWA (respirable dust)	0.05 mg/m <sup>3</sup>	OSHA Z-1
		TWA (respirable)	10 mg/m <sup>3</sup> / %SiO <sub>2</sub> +2	OSHA Z-3
		TWA (respirable)	250 mppcf / %SiO <sub>2</sub> +5	OSHA Z-3
		TWA (respirable dust fraction)	0.1 mg/m <sup>3</sup>	OSHA P0
		TWA (respirable dust particulate matter)	0.025 mg/m <sup>3</sup> (Silica)	ACGIH
		TWA (respirable dust)	0.05 mg/m <sup>3</sup> (silica)	NIOSH REL
Magnesium Oxide	1309-48-4	PEL (respirable)	0.05 mg/m <sup>3</sup>	OSHA CARC
		TWA (inhalable particulate matter)	10 mg/m <sup>3</sup>	ACGIH
		TWA (fume, total particulate)	15 mg/m <sup>3</sup>	OSHA Z-1
		TWA (fume, total particulate)	10 mg/m <sup>3</sup>	OSHA P0



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<b>8.2 Exposure controls</b>	
<b>Engineering Controls</b>	
	<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>
<b>8.3 Personal Protective Equipment</b>	
<b>Eyes</b>	<ul style="list-style-type: none"> <li>• 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.</li> <li>• 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.</li> </ul>
<b>Hand protection</b>	<ul style="list-style-type: none"> <li>• Recommended preventive skin protection: Gloves.</li> <li>• 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.</li> </ul>
<b>Skin</b>	<ul style="list-style-type: none"> <li>• Impervious clothing.</li> <li>• Footwear protecting against chemicals.</li> </ul>
<b>Respiratory Protection</b>	<ul style="list-style-type: none"> <li>• 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.</li> <li>• For reasonably foreseeable industrial end uses of this material, respiratory protection should not be necessary.</li> </ul>
<b>Personal Hygiene</b>	<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"> <li>(1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.</li> <li>(2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.</li> <li>(3) Wash exposed skin promptly to remove accidental splashes or contact with this material.</li> </ol>
<b>Protective measures</b>	<ul style="list-style-type: none"> <li>• The protective equipment must be selected in accordance with current local standards and in cooperation with supplier of the protective equipment.</li> <li>• Ensure that eyewash stations and safety showers are close to the workstation location.</li> <li>• Emergency equipment immediately accessible, with instructions for use.</li> <li>• Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to</li> </ul>



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	the task(s) to be performed, conditions present, duration of use, and the potential hazards and/or risks that may occur during use.
<b>General Hygiene</b>	Equipment in contact with material should be rinsed with water prior to repair and maintenance.

<b>Section 9. Physical and Chemical Properties</b>	
<b>9.1 Information on basic physical and chemical properties</b>	
Appearance:	Tan powder
Odor:	Odorless.
Odor threshold:	Not applicable
pH	8.0 - 9.5
Melting/Freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point:	Not relevant
Evaporation Rate	Not applicable
Flammability (solid/gas)	Not expected to form explosive dust-air mixtures
Lower explosive limits	Not applicable
Upper explosive limits	Not applicable
Vapor pressure	Not applicable
Vapor density	Not applicable
Relative density	> 1 at ( 20°C (68°F)
Bulk Density	368 - 880 kg/m3
Solubilities	Insoluble
Partition Coefficient: n-octanol/water	Not applicable
Auto-ignition temperature	no data available
Decomposition Temperature	No decomposition if used as directed
Viscosity, Dynamic	Not applicable
Viscosity, Kinematic	Not applicable
Explosive Properties	no data available
Oxidizing Properties	Not classified as oxidizing.
<b>9.2 Other Information</b>	
This safety datasheet contains only information relating to safety and does not replace any product information or product specification.	



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<b>Section 10. Stability and Reactivity</b>	
<b>10.1 Reactivity</b>	No hazardous reactions if stored and handled as prescribed/indicated.
<b>10.2 Chemical Stability</b>	This material is stable under normal handling and storage conditions described in Section 7.
<b>10.3 Possibility Of Hazardous Reactions</b>	No hazardous reactions when stored and handled according to instructions. The product is chemically stable.
<b>10.4 Conditions To Avoid</b>	
Conditions to avoid	Forms slippery/greasy layers with water.
<b>10.5 Incompatible Materials</b>	
Materials to avoid	<ul style="list-style-type: none"> <li>• Inert, not reactive.</li> <li>• Avoid storing together with materials that may be affected by dust.</li> </ul>
<b>10.6 Hazardous Decomposition Products</b>	
Hazardous decomposition products	No hazardous decomposition products if stored and handled as prescribed/indicated.
Thermal decomposition	Not determined.

<b>Section 11. Toxicological Information</b>	
<b>11.1 Likely routes of exposure</b>	
Inhalation	Likely mode of exposure.
Skin	Likely mode of exposure.
Eyes	Likely mode of exposure.
Ingestion	Ingestion not likely.
<b>11.2 Acute Toxicity/Effects</b>	
Acute Toxicity	Assessment of acute toxicity: Virtually nontoxic after a single ingestion.
Oral	No data available
Inhalation	Acute toxicity estimate: 15 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Irritation/corrosion	Assessment of irritating effects: Not expected to be an eye irritant. Not expected to be a skin irritant. Inhalation of dust may cause respiratory tract irritation, coughing and breathing difficulties. The product has not been tested. The statement has been derived from the properties of the individual components.
Skin	No data available



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Sensitization	Assessment of sensitization: The chemical structure does not suggest a sensitizing effect. The product has not been tested. The statement has been derived from the properties of the individual components.
Aspiration Hazard	No aspiration hazard expected.
<b>11.3 Acute Toxicity/Effects</b>	
Repeated dose toxicity	Assessment of repeated dose toxicity: NIOSH has studied the exposure effects of this magnesium-aluminum-silicate product, which contains crystalline silica, on pulmonary function and has determined that there is no evidence of significant respiratory morbidity.
Genetic toxicity	Assessment of mutagenicity: Based on the ingredients, there is no suspicion of a mutagenic effect.
Carcinogenicity	Crystalline silica: Assessment of carcinogenicity: Human carcinogen. Magnesium Oxide: Assessment of carcinogenicity: Not classifiable as a human carcinogen.
Reproductive toxicity	Assessment of reproduction toxicity: No toxicity to reproduction
Teratogenicity	Assessment of teratogenicity: No data available.
Other Information	Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses. The product has not been tested. The statement has been derived from the properties of the individual components.

<b>Section 12. Ecological Information</b>	
<b>12.1 Toxicity</b>	
Aquatic Toxicity	Magnesium Oxide: Assessment of aquatic toxicity: At the present state of knowledge, no negative ecological effects are expected.
Toxicity to fish	Magnesium Oxide: LC50 (96 h) > 100 mg/l, Fish The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.
Aquatic invertebrates	Magnesium Oxide: LC50 (48 h) > 100 mg/l, daphnia The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.
Aquatic plants	Magnesium Oxide: EC50 (72 h) > 100 mg/l, algae The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.
<b>12.2 Microorganisms/Effect on activated sludge</b>	
<b>12.3 Persistence and degradability</b>	
Assessment biodegradation and elimination (H <sub>2</sub> O)	Inorganic product which cannot be eliminated from water by biological purification processes.
<b>12.4 Additional information</b>	
Other ecotoxicological advice:	None



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<b>Section 13. Disposal Considerations</b>	
<b>13.1 Waste disposal of substance:</b>	
Advice on disposal	Dispose of in a licensed facility. Do not discharge into drains/surface waters/groundwater. This product, if discarded as sold, is not a Federal RCRA hazardous waste.
<b>13.2 Container disposal:</b>	
Advice	Dispose of in a licensed facility. Empty containers or liners may retain product residues. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

<b>Section 14. Transport Information</b>	
<b>14.1 Land transport</b>	
USDOT	Not classified as a dangerous good under transport regulations
<b>14.2 Sea transport</b>	
IMDG	Not classified as a dangerous good under transport regulations
<b>14.3 Air transport</b>	
IATA/ICAO	Not classified as a dangerous good under transport regulations

<b>Section 15. Regulatory Information</b>	
<b>15.1 Safety, health and environmental regulations/legislation specific for the substance.</b>	
U.S. TSCA	released / listed
<b>15.2 US Federal Regulations</b>	
SARA 302	This material does not contain any components with a section 302 EHS TPQ.
SARA 304	This material does not contain any components with a section 304 EHS RQ.
SARA 311/312	Refer to SDS section 2 for GHS hazard classes applicable for this product.
SARA 313	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
<b>15.3 State Regulations</b>	



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

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