



**WesBond Corporation
Material Safety Data Sheet**

Bindzil® 2040NH4

Revision Date: 07/21/2011	Supercedes: 07/11/2008	First Issued: 01/01/1999
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Section 1. Chemical Product and Company Identification

Sales Name	Bindzil® 2040NH4
Product Description	Amorphous silica in water
CAS Number	N/A

Manufacturer	EKA Nobel for WesBond Corporation	
Address	1135 E. 7 th Street Wilmington, DE 19801	
Contact	Wes Jones	
Telephone (0800 – 1630 EST)	302-655-7917	
Approved By	Wes M Jones	

Emergency Telephone	US – CHEMTREC (24 hrs) CANADA – CANUTEC (24 hrs)	800-424-9300 613-996-6666
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Section 2. Composition / Information on Ingredients

Component	CAS Number	Weight %
Amorphous Silica	7631-86-9	30 – 50%
Ammonium Hydroxide	1336-21-6	<0.25%
Water	7732-18-5	50 – 90%

Section 3. Hazard Identification

Emergency Overview	A translucent, clear liquid with a mild ammonia odor which is a mild skin and eye irritant.
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Potential Health Effects	
Eyes	Slightly irritating.
Skin	Slightly irritating.
Inhalation	Not a normal route of exposure.
Ingestion	None expected.
(See Section 11 for Toxicological Information)	

Section 4. First Aid Measures

EYES	Immediately flush eyes thoroughly with water for at least 15 minutes. Obtain medical attention if irritation persists.
SKIN	Wash with water, use skin cream if necessary. Remove all contaminated clothing, and launder before reuse.
INHALATION	Not a normal route of entry.



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INGESTION	Immediately rinse mouth with water. Finally drink water. If necessary seek medical attention.
Notes to physician	None.

Section 5. Fire Fighting Measures

Fire Extinguishing Media	N.A
Flash Point (°F)	Noncombustible.
Special Fire Fighting Procedures	Non flammable (water)
Flammable Limits (Vapor In Air, Vol.%)	N.A.
Unusual Fire And Explosion Hazards	Product will not burn, not explosive.
Hazardous Decomposition Products	None

Section 6. Accidental Release Measures

Large Spillages	Collect as much as possible in a clean container for reuse or disposal.
Small Spillages	Same as above
Personal Protection	Goggles, rubber/PVC gloves, and full working clothes recommended.

Section 7. Handling and Storage

Electrostatic Accumulation Hazard	N/A
Usual Shipping Containers	Drums, liquid totes, bulk tank car
Storage/Transport Temperature	Ambient. Protect from freezing and temperatures above 150°F / 66°C.
Storage/Transport Pressure	Ambient.
Load/Unload Temperature	Ambient.
Storage and Handling Materials	Plastic, stainless steel. Do not store in light metal containers (aluminum).

Section 8. Exposure Controls/Personal Protection

Engineering Controls	No specific measures required.
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Personal Protective Equipment	
Eyes	Safety glasses with side shields or chemical goggles. Eyewash fountain should be within direct access.
Skin	Neoprene gloves provide protection against skin irritation.
Respiratory Protection	None required; avoid breathing dried residues. Use NIOSH approved respirator whenever workplace conditions warrant use.
Personal Hygiene	Wash thoroughly after handling
General Hygiene	Equipment in contact with material should be rinsed with water prior to repair and maintenance.



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Exposure Guidelines		
Component	PEL-OSHA	TLV-ACGIH
Amorphous Silica	10 mg/m ³ , 8 hour TWA 5 mg/m ³ , respirable dust or mist	
Ammonium Hydroxide	17 mg/m ³ TWA 24 mg/m ³ STEL	
Water	N/A	No limit set, non-toxic

Section 9. Physical and Chemical Data

Appearance	Translucent liquid
Color	Clear
Odor	Slight ammonia odor
pH	9 to 10
Specific Gravity	1.39
Solubility In Water	Infinite (disperses)
Solubility In Other Solvents	No
Vapor Pressure	Same as water
Melting Point	N/A
Boiling Point	100°C/212°F (Same as water)
Evaporation Rate (water = 1)	N/A

Section 10. Stability and Reactivity

Stability	Stable
Conditions To Avoid	Freezing and temperatures above 150°F / 66°C.
Incompatibility (Materials To Avoid)	None
Hazardous Decomposition Products	None
Hazardous Polymerization	Will not occur.

Section 11. Toxicological Information

Toxicological Information	This product contains amorphous silicon dioxide. No cases of silicosis have been reported from amorphous silica.
Acute Oral Toxicity	LD50 (oral, rat) > 3,160 mg/kg. (as 100% silicon dioxide).
Acute Dermal Toxicity	No information.
Inhalation Effects	Rat TCLo=50 mg/m ³ /6hr/2Y-I:I-CAR.
Irritation to Skin	Slightly irritating.
Irritation to Eyes	Slightly irritating.
Sensitization Data	Not a sensitizer (Magnusson-Kligman test).
Reproductive toxicity/teratogenicity	No information.
Carcinogenicity/mutagenicity & long term effects	No information.
Epidemiology	No information.
Neurotoxicity	No information.



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Section 12. Ecological Information

Biodegradability	Not relevant, inorganic product.
Aquatic toxicity	FISH: Zebra fish LC50 (96 hrs) > 5000 mg/l. DAPHNIA: Ceriodaphnia EC50 (48 hr) = 7600 g/l. ALGAE: Selenastrum capricornutum IC50 (48 hr) = 440 mg/l.
Ecological Information	No information.
Environmental Effects	No information.

Section 13. Disposal Considerations

Product disposal	In accordance with municipal, provincial, state, and federal regulations.
RCRA	Not a listed hazard.

Section 14. Transport Information

General	No Information.
Transport Summary	Not classified as dangerous for transport.
UN/ID number	N/A
DOT/TAG	N/A
IMDG (Sea)	N/A
Proper shipping name	Not regulated
Air (ICAO/IATA-DGR)	N/A

Section 15. Regulatory Information

US Federal Regulations	
U.S. TSCA	In compliance
OSHA regulated	Not controlled
SARA 302	Not subject to SARA 302.
SARA 311/312	Not subject to SARA 311/312.
SARA 313	Not subject to SARA 313.
California Proposition 65	Not subject to California Proposition 65.
CERCLA reportable quantities	Contains sodium hydroxide (<1%) RQ=1000 lbs.

International Regulations	
Canada DSL/NDSL	In compliance
WHMIS classification	Not controlled

Section 16. Other Information

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



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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

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
ALK	Special Hazards – Alkaline (pH > 7)

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.