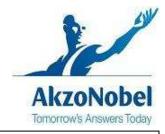
## MATERIAL SAFETY DATA SHEET



http://www.ekamsds.com



# 1. Chemical Product and Company Identification

Eka Chemicals Inc.

1775 West Oak Commons Court

Marietta, GA 30062

**USA** 

24 Hour Emergency Number US CHEMTREC 1-800-424-9300 CANADA CANUTEC 1-613-966-6666 Product Name

BINDZIL® 2040NH4

Chemical Type

Amorphous silica, aqueous colloidal solution

Intended Use

Refractory binding applications

## 2 Hazards Identification

Emergency Overview A translucent liquid with an ammonia odor which is a mild skin and eye irritant.

Routes of Exposure Eyes, skin, and inhalation

Potential Health Effects

IngestionNone expected.SkinSlightly irritatingEyesSlightly irritating

Inhalation Breathing dried dust or spray mist causes irritation.

Target organs Skin and eyes

Chronic Effects Product contains amorphous silicon dioxide. No cases of silicosis have been reported from

amorphous silica.

Medical Conditions Aggravated

by Exposure

Existing asthma and lung diseases

# 3. Composition / Information on Ingredients

 Component
 CAS #
 % Wt/Wt

 Silica, Amorphous
 7631-86-9
 30 - 50 %

 Ammonium hydroxide
 1336-21-6
 < 1 %</td>

## First Aid Measures

First Aid

Ingestion Consult a physician. Do not induce vomiting or give anything by mouth to an unconscious

person.

Skin Immediately wash with plenty of soap and water. Remove all contaminated clothing which

should be laundered before reuse.

Eyes Immediately flush eyes thoroughly with water for at least 15 minutes. Obtain medical attention

if irritation persists.

Inhalation Remove patient to fresh air upon irritation or breathing difficulty.

Notes to Physician None

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# 5. Fire Fighting Measures

Flammable Properties None

Extinguishing Media

Suitable Extinguishing Media Does not present a fire hazard.

Unsuitable Extinguishing Media Not applicable

Protection of Fire Fighters

Protective Equipment for Fire

None.

**Fighters** 

Specific Hazards Arising From

the Chemical

None.

### Accidental Release Measures

Environmental Precautions Do not flush with water. Clean up promptly by scoop or vacuum. Keep in suitable and closed

containers for disposal. After cleaning, flush away traces with water.

Methods for Containment No Information

Methods for Clean-up No Information

## Handling and Storage

Handling Procedures Avoid eye and skin contact. Maintain good personal hygiene.

Storage Procedures Observe local regulations. Do not store in light metal containers (Aluminum).

## 8. Exposure Controls / Personal Protection

Exposure Guidelines Amorphous silica: OSHA exposure limit: 5 mg/m3 Si02 respirable dust or mist, 10 mg/m3

total. 8 hour time weighted average.

Engineering Controls Ventilate adequately.

Personal Protective Equipment

Eyes/Face Goggles and eyewash station recommended.

Skin Rubber/PVC gloves and full working clothes recommended. Contaminated clothing should be

laundered before re-use.

Respiratory Use NIOSH/MSHA approved respirator for dusty or misty conditions.

# 9. Physical & Chemical Properties

#### **Apperance**

Form Liquid

ColorTranslucentOdorAmmoniaOdour ThresholdNot Available.

Physical State liquid pH 9.5 (25°C)

Melting Point Freezing point circa 0

Freezing Point

Boiling Point

Circa 100

Flash Point

Not applicable

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Evaporation Rate No data
Flammability Not Available
Upper/Lower Flammability Not applicable
Vapor Pressure Not Available.
Vapor Density Not Available.

Specific Gravity 1.3

Solubility (H2O) Disperses in water but is negligibly soluble.

Coefficient of Water/Oil

Distribution

No data

Octanol/H2O Coeff

Auto Ignition Temperature

Decomposition Temperature

Viscosity

Bulk Density

Not Available.

Not Available.

No data

1.3 gm/cc

# 10. Chemical Stability & Reactivity Information

Conditions to Avoid Will not stand freezing.

Incompatible Materials None known.

Hazardous Decomposition

**Products** 

None

Possibility of Hazardous

None No Information

Reactions

# 11. Toxicological Information

Toxicological Information This product is considered to be relatively harmless to man. However, dust from the dry

product/spray may irritate the respiratory tract and cause symptoms of bronchitis.

Acute Effects LD50 (oral, rat) = 3160 mg/kg (as100% Silicon dioxide).

Component Analysis - LD50 No Information

Inhalation Effects Rat TCLo = 50 mg/m³/6hr/2Y-I:CAR\*

Irritation to skinNo InformationIrritation to eyesNo InformationSensitization DataNo Information

Carcinogenicity/mutagenicity &

long term effects

No Information

Neurotoxicity No Information

Reproductive

toxicity/teratogenicity

No Information

Epidemiology No Information

# 12. Ecological Information

#### **Ecotoxicity**

Aquatic toxicity LC50 (Brachydanio rerio) 96hr > 5000 mg/l. EC50 (Ceriodaphnia dubia) 48hr = 7600mg/l.

Algae: EC50 (Selenastrum capricornutum) = 440 mg/l.\*

Ecological Information No information.

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Environmental Effects No Information

Persistance/Degradability Not applicable for inorganic substances.

## 13. Disposal Considerations

Disposal Instructions In accordance with municipal, provincial, state and federal regulations. Not a listed hazard.

Recycling of containers may be permitted, provided the container is "empty", as described in 40 CFR 261.7(b)(1)", when the container is used within the United States. When the container is used within Canada, the following regulations apply: "A container that has been completely emptied using common practices, and that contains less than 2.5 cm of residue, is typically considered to be an "empty container" and not subject to regulation as a hazardous material or hazardous waste" (see also Ontario - O. Reg. 347, Quebec - O.C. 1091-2004, B.C. - B.C. Reg. 63/88, Alberta - Reg. 192/96, and/or Saskatchewan - E.10.2, Reg. 3, as appropriate).

## 14. Transport information

Goods Description Not applicable

General No Information

Transport Summary Not classified as dangerous for transport.

## 15. Regulatory Information

US Federal Regulations In compliance

#### U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

Ammonium hydroxide 1336-21-6 1000 lb final RQ; 454 kg final RQ

OSHA Regulated Not controlled

SARA 302 Not subject to SARA Section 302.

SARA 311/312 Not subject to SARA Section 311/312.

SARA 313 Not subject to SARA Section 313.

Canada DSL In compliance.

WHMIS Classification Not controlled

General Not subject to California Proposition 65. Ammonium hydroxide (CAS Number 1336-21-6) RQ =

1000 lbs

### 16. Other Information

HMIS RATINGS NFPA RATINGS

Health1Health1Flammability Classification0Flammability Classification0Reactivity0Reactivity0Pers. ProtBSpecial HazardsNone

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Other Information

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Issue Date: 13-Oct-2009

MSDS Sections Updated

Disposal Considerations: Disposal Instructions

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