

# MATERIAL SAFETY DATA SHEET

COMPLIES WITH OSHA HAZARD COMMUNICATION STANDARD 29 CFR 1910.1200

Date of preparation: August 07, 2013

## SECTION 1 CONTACT INFORMATION

CONTRACTORS SOURCE 1262 LEAH RD, MORRIS, IL.60450

<b>24 HOUR EMERGENCY TELEPHONE</b>	<b>(800) 535-5053</b>	<b>INFOTRAC</b>
<b>MANUFACTURER/SUPPLIER CONTACT:</b>	<b>(888) 263-5895</b>	<b>CONTRACTORS SOURCE</b>

<b>PRODUCT TRADE NAME :</b>	<b>FLEXYBO</b>	<b>NPCA HMIS RATING:</b>
		Health: 1
<b>PRODUCT CLASS:</b>	Concrete Bonding Agent Concentrate	Flammability: 0
		Reactivity: 0
<b>PRODUCT APPEARANCE/ODOR:</b>	Milky White Emulsion /Slight ammoniated odor	Personal Protection: C

## SECTION 2 INGREDIENTS

### OCCUPATIONAL EXPOSURE LIMITS

INGREDIENT	CAS#	%	ACGIH	ACGIH	OSHA	OSHA	VAPOR PRESSURE
			TLV (TWA)	TLV (STEL)	PEL (TWA)	PEL (STEL)	
Acrylic polymer	Not Hazardous	24.0	N.E.	N.E	N.E.	N.E.	17 mm Hg @ 20°C
Ethylene Vinyl Acetate Polymer	Not Hazardous	24.0	N.E.	N.E	N.E.	N.E.	N.A.
Individual residual monomers	Not required	<0.1	10 ppm	20 ppm	10 ppm	20 ppm	N.A.
Ammonia	7664-41-7	<0.1	5 mg/ m3	10 mg/m3	5 mg/m3	10 mg/m3	1.2 mm Hg @93°C
Water	7732-18-5	BAL.	None	None	None	None	N.A.

## SECTION 3 EMERGENCY AND FIRST AID PROCEDURES

<b>EYE CONTACT:</b>	Flush eyes with large amounts of water until irritation subsides. Seek medical attention.
<b>SKIN CONTACT:</b>	Wash affected skin areas thoroughly with soap and water. Consult a physician if irritation persists.
<b>INHALATION:</b>	Remove victim to fresh air and provide oxygen if breathing is difficult.
<b>INGESTION:</b>	If swallowed, give 2 glasses of water to drink. Consult a physician. Never give anything by mouth to an unconscious person.

## SECTION 4 PHYSICAL DATA

The following data represents approximate or typical values. They do not constitute product specifications

<b>BOILING RANGE:</b>	100°C (212°F)	<b>VAPOR DENSITY:</b>	< 1 (Air)
<b>EVAPORATION RATE:</b>	< 1 (Water)	<b>NON-VOLATILE SOLIDS (%):</b>	48.0 +/- 0.5
<b>WEIGHT PER GALLON:</b>	8.80+/- 0.10 lb/ gallon	<b>pH:</b>	9.0 +/- 0.5
<b>SOLUBILITY IN WATER:</b>	Dilutable	<b>VISCOSITY-BROOKFIELD:</b>	300 cps +/- 25

## SECTION 5 FIRE AND EXPLOSION DATA

<b>FLAMMABILITY CLASS:</b>	Non-combustible
<b>FLASH POINT:</b>	N.A.
<b>AUTOIGNITION TEMPERATURE:</b>	N.A.
<b>LOWER EXPLOSIVE LIMIT:</b>	N.A.
<b>EXTINGUISHING MEDIA</b>	Carbon dioxide, foam, dry chemical, water spray.
<b>UNUSUAL FIRE &amp; EXPLOSION HAZARDS:</b>	Material can splatter above 100°C / 212°F.
<b>SPECIAL FIRE FIGHTING PROCEDURES:</b>	Use air supplied rescue equipment for closed areas. Cool exposed containers with water.

**FLEXYBO- BONDING AGENT CONCENTRATE****SECTION 6 HEALTH HAZARD DATA**

<b>EFFECTS OF OVEREXPOSURE</b>	
<b>EYE CONTACT:</b>	Liquid is minimally irritating to the eyes. High vapor concentrations may be irritating.
<b>SKIN CONTACT:</b>	Liquid is slightly irritating to the skin.
<b>INHALATION:</b>	Inhalation of vapor or mist can cause headache, nausea, irritation of nose, throat, and lungs.
<b>INGESTION:</b>	Ingestion of product may result in vomiting; aspiration (breathing) of vomits into the lungs must be avoided as even small quantities may result in aspiration pneumonitis.
<b>ACUTE DATA</b>	The toxicity data are as follows, Oral LD50-rat >5000 mg/kg. Dermal LD50-rabbit > 5000 mg/kg. Skin-eye irritation- slight to moderate.

**SECTION 7 REACTIVITY DATA**

<b>STABILITY:</b>	Product is considered stable at regular temperatures.
<b>CONDITIONS TO AVOID :</b>	Avoid temperatures above 177°C/350°F, which can cause polymer decomposition. The maximum recommended storage temperature for this product is 49°C (120°F). Keep from freezing. The minimum recommended storage temperature is 1°C (34°F) as the material may coagulate if frozen.
<b>INCOMPATIBILITY (MATERIALS TO AVOID):</b>	There are no known materials which are incompatible with this product.
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	Thermal decomposition may yield acrylic monomers, it is dependent on time and temperature.
<b>HAZARDOUS POLYMERIZATION:</b>	Will not occur.

**SECTION 8 SPILL OR LEAK PROCEDURES**

<b>STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED:</b>	Use absorbent material to contain spill and reuse if possible. Otherwise, coagulate the emulsion by the stepwise addition of ferric chloride and lime. Remove the clear supernatant and flush to a chemical sewer.
<b>WASTE DISPOSAL METHOD:</b>	Incinerate under safe conditions; Dispose of in accordance with local, state and federal regulations.

**SECTION 9 SAFE HANDLING AND USE INFORMATION:**

<b>RESPIRATORY PROTECTION:</b>	Appropriate organic vapor canister, self contained breathing apparatus or supplied air hose mask, if needed. None required if airborne concentrations are maintained below the TWA/TLV's listed in Section 2.
<b>VENTILATION:</b>	Sufficient, in volume and pattern, to keep workroom concentration below current applicable OSHA safety and health requirements. See section 2. Use local exhaust ventilation with a minimum capture velocity of 100 ft/min. (30 m/min.) at the point of vapor evolution. Refer to the current edition of Industrial Ventilation: A Manual of Recommended Practice published by the American Conference of Governmental Industrial Hygienists for information on design, installation, use, and maintenance of exhaust systems.
<b>PROTECTIVE GLOVES:</b>	Rubber or neoprene
<b>EYE PROTECTION:</b>	Chemical safety/splash goggles.
<b>OTHER PROTECTIVE EQUIPMENT:</b>	Impervious clothing or boots, if needed.

**SECTION 10 SPECIAL PRECAUTIONS**

<b>DEPT. OF LABOR STORAGE CATEGORY:</b>	Not regulated
<b>STORAGE CONDITIONS :</b>	Keep from freezing, material may coagulate. The minimum recommended storage temperature for this material is 1°C/34°F. The maximum recommended storage temperature is 49°C/120°F.
<b>HANDLING PROCEDURES:</b>	Monomer vapors can be evolved when material is heated during processing

	operations.
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## FLEXBO- BONDING AGENT CONCENTRATE

### SECTION 11 TRANSPORT INFORMATION

U.S. D.O.T. PROPER SHIPPING NAME:	ITEM 33880, SUB 2, LTL 55- CONCRETE ADMIXTURE-WATER BASED
U.S. D.O.T. HAZARD CLASS:	NOT REGULATED BY D.O.T.
U.S. D.O.T. I.D. NUMBER:	N.A.

### SECTION 12 ADDITIONAL INFORMATION

Common Names:	Acrylic /EVA based copolymer emulsion
California Proposition 65:	This product does not contain any component known to the state of California to cause cancer.
U.S. Toxic Substances Control Act(TSCA)	All components of this product are listed or are excluded from listing on the TSCA inventory or otherwise comply with TSCA premanufacture notification requirements.
SARA (U.S.A.) Sections 311 and 312 hazard classifications (40CFR 370):	This product is not a hazardous chemical under 29CFR 1910.1200, and therefore is not covered by Title III of SARA.
SARA (U.S.A.) Section 313 (40CFR 372):	This product does not contain a chemical which is listed in Section 313 above the minimum concentration.
CERCLA Information (40CFR 302.4):	Releases of this material to air, land, or water are not reportable to the National Response Center under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA), or to state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304.
WORKPLACE CLASSIFICATION	This product is considered non- hazardous under the OSHA Hazard Communication Standard (29CFR 1910.1200). This product is not a "controlled product" under the Canadian Workplace Hazardous Materials Information System (WHMIS).

#### Abbreviations

ACGIH	American Conference of Governmental Industrial Hygienists	mg/m <sup>3</sup>	milligrams per cubic meter
CAA	Clean Air Act (EPA)	N.A	Not Applicable
CERCLA	Comprehensive Environmental Response, Compensation & Liability Act of 1980 (Superfund) (EPA)	N.E.	Not Established
CNS	Central Nervous System	NIOSH	National Institute for Occupational Safety & Health
CWA	Clean Water Act (EPA)	NTP	National Toxicology Program
DOT	Department of Transportation	OSHA	Occupational Safety and Health Administration
EPA	Environmental Protection Agency	PEL	Permissible Exposure Limit
g/kg	Grams per kilogram	ppm	Parts per million
IARC	Internal Agency for Research on Cancer	RCRA	Resource Conservation and Recovery Act (EPA)
LC50	Lethal Concentration in which 50% of the test animals are expected to die	SARA	EPA's Superfund Amendment and Reauthorization Act (EPA)
LD50	Lethal Dose in which 50% of the test animals are expected to die	STEL	Short-Term Exposure Limit, ACGIH terminology
		TLV	Threshold Limit Value
		TWA	Time-Weighted Average

Note : This material safety data sheet attempts to describe as accurately as possible the potential exposures associated with normal cement/sand use. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. The information and recommendations contained herein are based upon data believed to be correct. Waltools makes no warranties, expressed or implied, and assumes no liability in connection with any use of this information. Refer to 49 CFR for possible exceptions and exemptions. All statements, information, and data provided in this material data safety sheet are believed to be accurate and reliable, but are presented without any guarantee. Users should make their own investigations to determine the suitability of the information or products for their particular purposes.