

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 07/9/2015 Version: 1.0

SECTION 1: Identification of	the substance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixture
Trade name	: Zipcrete #137 Hardener Part-B
1.2. Relevant identified uses o	f the substance or mixture and uses advised against
Use of the substance/mixture	: Epoxy Floor Patch Component
1.3. Details of the supplier of t	he safety data sheet
Midwest Industrial Products Corp. 7424 Bessemer Ave. Cleveland, Ohio 44127	
Service: 800.521.2107 Product Stewardship: +1.216.771.855 www.midwestindustrial.net	
1.4. Emergency telephone nun	nber
Emergency number	: CHEMTREC (US Transportation) : 800.424.9300, CHEMTREC (Outside USA) : +1.703.527.3887
SECTION 2: Hazards identified	cation
2.1. Classification of the subst	tance or mixture
Classification (GHS-US)	
Acute Tox. 4 (Inhalation:dust,mist) H3 Skin Corr. 1B	314
Skin Sens. 1 H3 Full text of H-phrases: see section 16	317
2.2. Label elements GHS-US labeling	
Hazard pictograms (GHS-US)	HS05 GHS07
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	: H302+H332 - Harmful if swallowed or if inhaled H314 - Causes severe skin burns and eye damage H317 - May cause an allergic skin reaction
Precautionary statements (GHS-US)	 P260 - Do not breathe mist/vapors/spray P264 - Wash exposed areas thoroughly after handling P270 - Do not eat, drink or smoke when using this product P271 - Use only outdoors or in a well-ventilated area P272 - Contaminated work clothing must not be allowed out of the workplace P280 - Wear protective gloves/protective clothing/eye protection/face protection P301 + P312 - If swallowed: Call a poison center/doctor if you feel unwell P301 + P330 + P331 - If swallowed: rinse mouth. Do NOT induce vomiting P302 + P352 - If on skin: Wash with plenty of water P303 + P361 + P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower P304 + P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P333+P313 - If skin irritation or rash occurs: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse
2.3. Other hazards	
No additional information available	
07/09/2015	EN (English US)

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2.4. Unknown acute toxicity (GHS-US)

None of the ingredients are of unknown toxicity.

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable - this product is a mixture.

	•••	
3.2.		Mixture

Name	Product identifier	%	Classification (GHS-US)
Isophorone diamine	(CAS No) 2855-13-2	30 - 60*	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317
Benzyl alcohol	(CAS No) 100-51-6	30 – 60*	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2A, H319
Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-, reaction products with bisphenol A diglycidyl ether homopolymer	(CAS No) 68609-08-5	15 – 40*	Skin Sens. 1, H317

*The exact concentrations are being withheld as a trade secret

Full text of H-phrases: see section 16

4.1. Description of first aid measures First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician. Wash with plenty of soap and water. Wash contaminated clothing before reuse. First-aid measures after eye contact : Remove victim runediately call a poison center or doctor/physician. Wash with plenty of soap and water. Wash contaminated clothing before reuse. First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician. 4.2. Most important symptoms and effects. both acute and delayed Symptoms/injuries : Causes severe skin burns and eye damage. Symptoms/injuries after ingestion : Swallowing a small quantity of this material will result in serious health hazard. 4.3. Indication of any immediate medical attention and special treatment needed No additional information available : Foam. Dry powder. Carbon dioxide. Water spray. Sand. Suitable extinguishing media : Poam. Dry powder. Carbon dioxide. Water spray. Sand. Suitable extinguishing media : Do not use a heavy water stream. 5.2. <	SECTION 4: First aid measures	
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SECTION 6: Accidental release measures	Firefighting instructions :	
	Protection during firefighting :	Do not enter fire area without proper protective equipment, including respiratory protection.
	SECTION 6: Accidental release measu	res
6.1. Personal precautions, protective equipment and emergency procedures		
6.1.1. For non-emergency personnel		

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6.1.2. For emergency respo	For emergency responders		
Protective equipment	: Equip cleanup crew with proper protection.		
Emergency procedures	: Ventilate area.		
6.2. Environmental precau	itions		
Prevent entry to sewers and publ	ic waters. Notify authorities if liquid enters sewers or public waters.		
6.3. Methods and material	for containment and cleaning up		
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.		
6.4. Reference to other se	ctions		
See Heading 8. Exposure control	a and narrannel protection		
	s and personal protection.		
SECTION 7: Handling an			
5 1	d storage		
SECTION 7: Handling an	d storage		
SECTION 7: Handling an 7.1. Precautions for safe I	d storage handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation		
SECTION 7: Handling an 7.1. Precautions for safe handling Precautions for safe handling Hygiene measures	 d storage mandling Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Use only outdoors or in a well-ventilated area. Do not breathe mist/vapors/spray. Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly after handling. Wash contaminated clothing before reuse. Contaminated work clothing should not be 		
SECTION 7: Handling an 7.1. Precautions for safe handling Precautions for safe handling Hygiene measures	 d storage mandling Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Use only outdoors or in a well-ventilated area. Do not breathe mist/vapors/spray. Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly after handling. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. 		

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Incompatible materials
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7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection		
8.1. Control parameters		
Zipcrete #137 Hardener Par	t-B	
ACGIH	Not applicable	
OSHA	Not applicable	
Isophorone diamine (2855-1	13-2)	
ACGIH	Not applicable	
OSHA	Not applicable	
Cyclohexanemethanamine,	5-amino-1,3,3-trimethyl-, reaction products with bisphenol A diglycidyl ether homopolymer (68609-08-5)	
ACGIH	Not applicable	
OSHA	Not applicable	
Benzyl alcohol (100-51-6)		
ACGIH	Not applicable	
OSHA	Not applicable	

: Sources of ignition. Direct sunlight.

8.2. Exposure controls	
Engineering controls	: Adequate ventilation should be provided in the work area as well as eye-wash station and safety shower.
Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear chemical resistant protective gloves.
Eye protection	: Chemical goggles or face shield.
Skin and body protection	: Wear impervious chemical resistant protective clothing as appropriate to prevent contact with skin.
Respiratory protection	: Wear NIOSH-approved respirator, if required.

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Other information

: Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical	
9.1. Information on basic physical and	chemical properties
Physical state	: Liquid
Color	: Clear
Odor	: Ammonia odor
Odor threshold	: No data available
рН	: >7
Melting point	: No data available
Freezing point	: No data available
Boiling point	: > 200 °C
Flash point	: 113 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: 0.02 mm Hg
Relative density	: 1
Relative vapor density at 20 °C	: No data available
Density	: 1 g/cm ³
Solubility	: Soluble in water
Log Pow	: No data available
Log Kow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
9.2. Other information	
VOC content	 < 0.01 g/l estimated for this component only. Consult the manufacturer or product data sheet for final mixed product VOC content.

SECT	ION 10: Stability and reactivity	
10.1.	Reactivity	
Therma	al decomposition generates : Corrosive vapors.	
10.2.	Chemical stability	
This pro	oduct is stable under normal conditions of use.	
10.3.	Possibility of hazardous reactions	
Not esta	ablished.	
10.4.	Conditions to avoid	
Extreme	ely high or low temperatures.	
10.5.	Incompatible materials	
Reactiv	ve metals, organic acids, mineral acids, sodium hypochlorite, oxidizing agent	Product slowly corrodes copper aluminum zinc and galvanized

Reactive metals, organic acids, mineral acids, sodium hypochlorite, oxidizing agent. Product slowly corrodes copper, aluminum, zinc and galvanized surfaces.

10.6. Hazardous decomposition products

Fume. Carbon monoxide. Carbon dioxide. Thermal decomposition generates : Corrosive vapors.

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SECTION 11: Toxicological information		
11.1. Information on toxicological effects		
Acute toxicity	: Oral: Harmful if swallowed. Inhalation:dust/mist: Harmful if inhaled.	
Zipcrete #137 Hardener Part-B		
ATE US (oral)	1030.000 mg/kg body weight	
ATE US (dust, mist)	2.500 mg/l/4h	
Isophorone diamine (2855-13-2)		
LD50 oral rat	1030 mg/kg	
ATE US (oral)	1030.000 mg/kg body weight	
Benzyl alcohol (100-51-6)		
LD50 oral rat	1230 mg/kg	
LD50 dermal rabbit	2 g/kg	
LC50 inhalation rat (mg/l)	8.8 mg/l/4h	
ATE US (oral)	1230.000 mg/kg body weight	
ATE US (dermal)	2000.000 mg/kg body weight	
ATE US (gases)	4500.000 ppmV/4h	
ATE US (vapors)	8.800 mg/l/4h	
ATE US (dust, mist)	1.500 mg/l/4h	
Skin corrosion/irritation	: Causes severe skin burns and eye damage.	
	pH: > 7	
Serious eye damage/irritation	: Not classified	
	pH: > 7	
Respiratory or skin sensitization	: May cause an allergic skin reaction.	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
Specific target organ toxicity (single exposure)	: Not classified	
Specific larger organ loxicity (single exposure)		
Specific target organ toxicity (repeated	: Not classified	
exposure)		
Aspiration hazard	: Not classified	
Potential Adverse human health effects and	: Harmful if swallowed. Harmful if inhaled.	
symptoms		
Symptoms/injuries after inhalation	: Danger of serious damage to health by prolonged exposure through inhalation. May cause an allergic skin reaction.	
Symptoms/injuries after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.	

SECTION 12: Ecological information

	12.1		Toxi	city
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Isophorone diamine (2855-13-2)	
EC50 Daphnia 1	14.6 - 21.5 mg/l (Exposure time: 48 h - Species: Daphnia magna [semi-static])
Benzyl alcohol (100-51-6)	
LC50 fish 1	460 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 1	23 mg/l (Exposure time: 48 h - Species: water flea)
LC50 fish 2	10 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
12.2. Persistence and degradability	
Zipcrete #137 Hardener Part-B	
Persistence and degradability	Not established.
Isophorone diamine (2855-13-2)	
Persistence and degradability Not established.	

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Cyclohexanemethanamine, 5-amino-1,3,3-t	trimethyl-, reaction products with bisphenol A diglycidyl ether homopolymer (68609-08-5)
Persistence and degradability	Not established.
Benzyl alcohol (100-51-6)	
Persistence and degradability	Not established.
2.3. Bioaccumulative potential	
Zipcrete #137 Hardener Part-B	
Bioaccumulative potential	Not established.
Isophorone diamine (2855-13-2)	
Log Pow	0.79 (at 23 °C)
Bioaccumulative potential	Not established.
Cyclohexanemethanamine, 5-amino-1,3,3-t	trimethyl-, reaction products with bisphenol A diglycidyl ether homopolymer (68609-08-5)
Bioaccumulative potential	Not established.
Benzyl alcohol (100-51-6)	
Log Pow	1.1
Bioaccumulative potential	Not established.
•	1
2.4. Mobility in soil	
2.5. Other adverse effects	
Dther information	: Avoid release to the environment.
ECTION 13: Disposal consideration	ons
3.1. Waste treatment methods	
Vaste disposal recommendations	: Dispose in a safe manner in accordance with local, state and federal regulations.
cology - waste materials	: Avoid release to the environment.
SECTION 14: Transport information	
Department of Transportation (DOT)	LIN2000 Drint & III
ransport document description	: UN3066 Paint, 8, III
IN-No.(DOT)	: UN3066
Proper Shipping Name (DOT)	: Paint
epartment of Transportation (DOT) Hazard	: 8 - Class 8 - Corrosive material 49 CFR 173.136
lasses lazard labels (DOT)	: 8 - Corrosive
Packing group (DOT)	: III - Minor Danger
OT Packaging Non Bulk (49 CFR 173.xxx)	: 173
OT Packaging Bulk (49 CFR 173.xxx)	: 241
DOT Special Provisions (49 CFR 172.102)	 B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T4 - 2.65 178.274(d)(2) Normal

following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. TP29 - A portable tank having a minimum test pressure of 1.5 bar (150.0 kPa) may be used provided the calculated test pressure is 1.5 bar or less based on the MAWP of the hazardous materials, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

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DC	T Packaging Exceptions (49 CFR 173.xxx)	:	154
	T Quantity Limitations Passenger aircraft/rail CFR 173.27)	:	5 L
	T Quantity Limitations Cargo aircraft only (49 R 175.75)	:	60 L
DC	T Vessel Stowage Location	:	A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
DC	T Vessel Stowage Other	:	40 - Stow "clear of living quarters"
AD	R		

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information	n	
15.1. US Federal regulations		
Zipcrete #137 Hardener Part-B		
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard	
Isophorone diamine (2855-13-2)		
Listed on the United States TSCA (Toxic Subs	tances Control Act) inventory	
Cyclohexanemethanamine, 5-amino-1,3,3-tr	imethyl-, reaction products with bisphenol A diglycidyl ether homopolymer (68609-08-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Benzyl alcohol (100-51-6)		
Listed on the United States TSCA (Toxic Subs	tances Control Act) inventory	
5.2. International regulations		
CANADA		
Isophorone diamine (2855-13-2)		
Listed on the Canadian DSL (Domestic Sustar	ices List)	

WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class E - Corrosive Material		
Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-, reaction products with bisphenol A diglycidyl ether homopolymer (68609-08-5)			
Listed on the Canadian DSL (Domestic Sustances List)			
Benzyl alcohol (100-51-6)			
Listed on the Canadian DSL (Domestic Sustance	the Canadian DSL (Domestic Sustances List)		
WHMIS Classification	Class B Division 3 - Combustible Liquid		
	Class D Division 2 Subdivision B - Toxic material causing other toxic effects		

EU-Regulations

Isophorone diamine (2855-13-2)	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)	
Benzyl alcohol (100-51-6)	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)	

Classification according to Regulation (EC) No. 1272/2008 [CLP]

No additional information available

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

No additional information available

National regulations

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Isophorone diamine (2855-13-2)	
Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or I Listed on the Japanese ENCS (Existing & New Chemical Substances) inve Listed on the Korean ECL (Existing Chemicals List) Listed on NZIOC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substa Poisonous and Deleterious Substances Control Law Listed on the Canadian IDL (Ingredient Disclosure List) Listed on INSQ (Mexican national Inventory of Chemical Substances) Listed on Turkish inventory of chemical	ntory
Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-, reaction products	with bisphenol A diglycidyl ether homopolymer (68609-08-5)
Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or I Listed on the Japanese ENCS (Existing & New Chemical Substances) inve Listed on the Korean ECL (Existing Chemicals List) Listed on NZIOC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substa	ntory
Benzyl alcohol (100-51-6)	
Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or I Listed on the Japanese ENCS (Existing & New Chemical Substances) inve Listed on the Korean ECL (Existing Chemicals List) Listed on NZIOC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substa Listed on the Canadian IDL (Ingredient Disclosure List) Listed on INSQ (Mexican national Inventory of Chemical Substances) Listed on Turkish inventory of chemical	ntory

No additional information available

SECTION 16: Other information

Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 4	Flammable liquids Category 4
Skin Corr. 1B	Skin corrosion/irritation Category 1B
Skin Sens. 1	Skin sensitization Category 1
H227	Combustible liquid
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled

SDS US (GHS HazCom 2012)

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This SDS to the best of our knowledge conforms to the requirements of OSHA 29 CFR 1910.1200, 91/155/EEC and summarizes the health and safety hazard

information and general guidance on how to safety handle the material at the date of issue. Each user must review the SDS in the context of how the product will be handled and used in the workplace. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. Responsibility for the product sold is subject to our standard terms and conditions, a copy if which is available upon request. This company warrants only that its products meet the specifications stated in the sales contract. Typical properties, where stated, are to be considered as representative of current production and should not be treated as specifications. While all the information presented in this document is believed to be reliable and to represent the best available data on these products, NO GUARANTY, WARRANTY, OR REPRESENTATION IS MADE, INTENDED, OR IMPLIED AS TO THE CORRECTNESS, OR SUFFICIENCY OF ANY INFORMATION, OR AS TO THE MERCHANTABILITY OR SUITABILITY OR FITNESS OF ANY CHEMICAL COMPOUNDS OR OTHER PRODUCTS FOR ANY PARTICULAR USE OR PURPOSE, OR THAT ANY CHEMICAL COMPOUNDS OR OTHER PRODUCTS OR THE USE THEREOF ARE NOT SUBJECT TO A CLAIM BY A THIRD PARTY FOR INFRINGEMENT OF ANY PATENT OR OTHER INTELLECTUAL PROPERTY RIGHT. Some of the information presented and conclusions drawn herein are from sources other than direct test data on the product itself. Liability by this company for all claims, whether arising out of breach of warranty, negligence, strict liability, or otherwise, is limited to the purchase price of the material. Products may be toxic and require special precautions in handling. For all products listed, the user should obtain detailed information on toxicity, together with the proper shipping, handling and storage procedures, and comply with all applicable safety and environmental standards. Toxicity and risk characteristics of chemical compounds and other products may differ when used with other materials or in a manufacturing or oth