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Version 01

Powers Fasteners, Inc.

Brewster, NY 10509

Date printed 18.12.2013, Revision 19.02.2013

SECTION 1: Identification of the substance / preparation and of the company

Product identifier	PE1000+, Comp. A
Relevant identified uses of the substance or mixture and uses advised against	Adhesive mortar for fastening elements A-Component (Resin)
Identified use	none
Company	Powers Fasteners, Inc. 2 Powers Lane Brewster, NY 10509 / USA Phone +1 800-524-3244 Fax +1 877-871-1965
Address enquiries to	
Emergency phone Advisory body	CHEMTREC: +1 703-527-3887 (24h) (Emergency Contact Information Only) USA: 800-424-9300

SECTION 2: Hazards identification

Emergency Overview	
Appearance, Odor:	pasty, light beige, characteristic
	WARNING
	CAUSES EYE AND SKIN IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION. HARMFUL TO AQUATIC LIFE WITH LONG LASTING EFFECTS. MAY CAUSE RESPIRATORY TRACT IRRITATION.
OSHA Regulatory Status	This product is classified as hazardous in accordance to OSHA Standard 29 CFR 1910.1200.
Potential health effects	People who are allergic to epoxide should avoid the use of the product.
Potential environmental effects	

SECTION 3: Composition / Information on ingredients

The product is a mixture.

Range [%]	Substance	
25 - <50	25 - <50 Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight ≤ 700)	
	CAS: 25068-38-6	
10 - <20	Reaction product: bisphenol-F-(epichlorhydrin) Epoxy resin (number average molecular weight ≤ 700)	
	CAS: 9003-36-5	
10 - <20	1,6-Bis(2,3-epoxypropoxy)hexane	
	CAS: 16096-31-4	
1 - <10	Propylene carbonate	
	CAS: 108-32-7	

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Comment on component parts
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SECTION 4: First aid measures

Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%. For full text of H-statements and R-phrases: see SECTION 16.

Description of first aid measures Inhalation	Change soaked clothing immediately. Ensure supply of fresh air. In the event of symptoms seek for medical treatment.
Skin contact	In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	Supply with medical care. Rinse out mouth and give plenty of water to drink.
Indication of any immediate medical attention and special treatment needed	Treat symptomatically.



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SECTION 5: Fire-fighting measures		

Suitable extinguishing media	foam, dry powder, water spray jet, carbon dioxide
Extinguishing media that must not be used	Full water jet
Special exposure hazards arising from the substance or preparation itself or combustion products	Unknown risk of formation of toxic pyrolysis products. Carbon monoxide (CO) Chlorine compounds.
Special protective equipment for firefighters	Do not inhale explosion and/or combustion gases. Use self-contained breathing apparatus.
Additional information	Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations. Collect contaminated firefighting water separately, must not be discharged into the drains.
	Collect containinated mengining water separately, must not be discharged into the drains.
SECTION 6: Accidental release measur	
	res
SECTION 6: Accidental release measur Personal precautions, protective equipment and emergency procedures	
Personal precautions, protective	Ensure adequate ventillation. Use personal protective equipment.

Precautions for safe handling Use only in well-ventilated areas. Advice on protection against fire and Keep away from all sources of ignition - Refrain from smoking. Take precautionary measures against static discharges. explosion Requirements for storage rooms and Keep only in original container. Prevent penetration into the ground. vessels Advice on storage compatibility Do not store together with food and animal food/diet. Further information on storage conditions Keep container in a well-ventilated place. Keep container tightly closed. Keep in a cool place. Store in a dry place. Protect from atmospheric moisture and water. Recommended storage temperature: 5 - 25 °C



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SECTION 8: Exposure controls / personal protection

Ensure adequate ventilation on workstation.

Additional advice on system design Ingredients with occupational exposure

limits to be monitored (US)

limits to be monitored (03)	
Range [%] Substance	
1 - <20 Propylene carbonate	
CAS: 108-32-7, EINEC	S/ELINCS: 203-572-1, EU-INDEX: 607-194-00-1
Long-term exposure: OSHA PEL	
Respiratory protection	If ventilation insufficient, wear respiratory protection. Short term: filter apparatus, combination filter A-P2.
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. Nitrile rubber, >480 min (EN 374).
Eye protection	Tightly fitting goggles.
Skin protection	Protective clothing.
General protective measures	Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier.
Hygiene measures	Wash hands before breaks and after work. Use barrier skin cream. Take off contaminated clothing and wash before reuse. Do not eat, drink or smoke when using this product.
Delimitation and monitoring of the environmental exposition	See SECTION 6+7.

SECTION 9: Physical and chemical properties

Form	pasty
Color	light beige
Odor	characteristic
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	not determined
Flash point [°C]	not applicable
Flammability [°C]	not determined
Lower explosion limit	not determined
Upper explosion limit	not determined
Oxidizing properties	not determined
Vapour pressure/gas pressure [kPa]	not determined
Density [g/ml]	1,55 (23°C / 73,4°F)
Bulk density [kg/m³]	not applicable
Solubility in water	insoluble
Partition coefficient [n-octanol/water]	not determined
Viscosity	not determined
Relative vapour density determined in air	not determined
Evaporation speed	not determined
Melting point [°C]	not determined
Autoignition temperature [°C]	not determined
Decomposition temperature [°C]	not determined



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SECTION 10: Stability and reactivity

Reactivity	No dangerous reactions known if used as directed.
Chemical stability	Stable under normal ambient conditions (ambient temperature).
Possibility of hazardous reactions	Reactions with oxidizing agents. Reactions with alkalies, amines and strong acids. Reactions with alcohols.
Conditions to avoid	See SECTION 7.2.
Incompatible materials	See SECTION 10.3.
Hazardous decomposition products	No hazardous decomposition products known.
SECTION 11: Toxicological information	

Information on toxicological effects

Acute toxicity

Product
ATE-mix, dermal, > 2000 mg/kg.
ATE-mix, oral, Rat: > 2000 mg/kg.

Range [%]	Substance	
25 - <50	Reaction product: bisphenol-A	-(epichlorhydrin) Epoxy resin (number average molecular weight ≤ 700), CAS: 25068-38-6
	LD50, oral, Rat: 11400 mg/kg	bw (GESTIS).
	LD50, dermal, Rabbit: 22800 r	ng/kg bw (GESTIS).
10 - <20	Reaction product: bisphenol-F-(epichlorhydrin) Epoxy resin (number average molecular weight ≤ 700), CAS: 9003-36-5	
	LD50, dermal, Rabbit: 400 mg/kg bw (GESTIS).	
	LD50, oral, Rat: 2000 mg/kg b	w (GESTIS).
1 - <10	Propylene carbonate, CAS: 10	8-32-7
	LD50, dermal, Rabbit: > 20000) mg/kg (IUCLID).
	LD50, oral, Rat: 33300 mg/kg	(IUCLID).
Serious eye da	mage/irritation	Irritant
Skin corrosion	/irritation	Irritant
Respiratory or skin sensitisation		Sensitizing.
Specific target organ toxicity — single r exposure		not determined
Specific target organ toxicity — repeated exposure		not determined
Mutagenicity		not determined
Reproduction	toxicity	not determined
Carcinogenicity		not determined
General remarks		Toxicological data of complete product are not available. The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.



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SECTION 12: Ecological information

Toxicity

-		
Range [%]	Substance	
25 - <50	Reaction product: bisphenol-A	-(epichlorhydrin) Epoxy resin (number average molecular weight ≤ 700), CAS: 25068-38-6
	LC50, (96h), Pimephales pron	nelas: 3,1 mg/l (Lit.).
EC50, (48h), Daphnia ma		1,4-1,7 mg/l (Lit.).
	IC50, Bacteria: > 42,6 mg/l/18	bh (Lit.).
10 - <20	1,6-Bis(2,3-epoxypropoxy)hex	ane, CAS: 16096-31-4
	EC50, (24h), Daphnia magna:	47 mg/l.
	LC50, (96h), Brachidanio reric	o: 17,1 - 30,9 mg/l.
1 - <10	Propylene carbonate, CAS: 10)8-32-7
	EC50, (48h), Daphnia magna:	> 1000 mg/l (IUCLID).
	EC50, (96h), Cyprinus carpio:	> 1000 mg/l (IUCLID).
ehaviour in e	nvironment compartments	not determined
ehaviour in s	ewage plant	not determined
iological deg	radability	not determined
OD		not determined
OD 5		not determined
Other adverse		The product was classified on the basis of the calculation procedure of the preparation directive. Ecological data of complete product are not available. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials. Do not discharge product unmonitored into the environment. The product contains organically bound halogen in accordance with the formulation.
SECTION 13:	Disposal considerations	
Product		Coordinate disposal with the disposal contractor/authorities if necessary.
contaminated	packaging	Uncontaminated packaging may be taken for recycling. Dispose full / partially emptied cartridges as hazardous waste in accordance with official regulations.
CRA Hazard	Class (40CFR 261)	Waste must be disposed of in accordance with federal, state and local environmental contro

regulations. Consult your local or regional authorities.



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SECTION 14: Transport information

Transport by land according to ADR/RID

- Classification Code
- Label

- ADR LQ

- ADR 1.1.3.6 (8.6)

Inland navigation (ADN)

- Classification Code

- Label

Marine transport in accordance with IMDG

- EMS

- Label

- IMDG LQ

Air transport in accordance with IATA - Label

DOT Road Shipment Information (49 CFR)

- Label

UN 3077 Environmentally hazardous substance, solid, n.o.s. (Bisphenol A/F Epoxy resin) 9 III M7



5 kg

Transport category (tunnel restriction code) 3 (E)

UN 3077 Environmentally hazardous substance, solid, n.o.s. (Bisphenol A/F Epoxy resin) 9 III M7

UN 3077 Environmentally hazardous substance, solid, n.o.s. (Bisphenol A/F Epoxy resin) 9 III MARINE POLLUTANT



UN 3077 Environmentally hazardous substance, solid, n.o.s. (Bisphenol A/F Epoxy resin) 9 III



UN/NA 3077 Environmentally hazardous substance, solid, n.o.s. (Bisphenol A/F Epoxy resin) 9 III





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SECTION 15: Regulatory information

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US Regulations

National regulations

- SARA, 302
- SARA, 311
- SARA, 313
- CA Proposition 65
- TSCA

- FDA

American Conference of Governmental Industrial Hygienists - ACGIH International Agency for Research on Cancer IARC National Toxicology Program - NTP HAP-VOC Transport-regulations Other Right to Know Laws

EC Regulations

Hazard pictograms

Signal word Contains:

Hazard statements

Precautionary statements

Labelling Hazard symbols

R-phrases

S-phrases

29 CFR 1910.1200, ANSI Z400.1-2010, OSHA-PEL, ACGIH-TLV, NTP, IARC, SARA Title III, NFPA, TSCA, California - Prop. 65 not determined This product is classified as hazardous under SARA 311. not determined This product contains a substance known to the State of California to cause cancer. Silica, Quartz - CAS# 14808-60-7. All chemical substances in this material are included on or exempted from listing on the TSCA Inventory. not applicable ACGIH: yes - contains crystalline silica IARC: yes - contains crystalline silica. This product is named NTP - National Toxicology Program (contains crystalline silica). not applicable

DOT-Classification, ADR (2013); IMDG-Code (2013, 36. Amdt.); IATA-DGR (2013).

1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC





Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight ≤ 700) EINECS: 500-033-5 Reaction product: bisphenol-F-(epichlorhydrin) Epoxy resin (number average molecular weight ≤ 700) EINECS: 500-006-8

1,6-Bis(2,3-epoxypropoxy)hexane EINECS: 240-260-4 H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H411 Toxic to aquatic life with long lasting effects. P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P273 Avoid release to the environment. P280 Wear protective gloves. P280 Wear eye protection/face protection. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P391 Collect spillage. P363 Wash contaminated clothing before reuse. P501 Dispose of contents/container to in accordance with local/regional/national/international regulation. The product is classified and required to be labelled in accordance with EC-Directives Irritant Dangerous for the environment R 36/38: Irritating to eyes and skin.

R 43: May cause sensitisation by skin contact.

R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S 2: Keep out of the reach of children.

S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

S 51: Use only in well-ventilated areas.

yes



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	S 61: Avoid release to the environment. Refer to special instructions, safety da S 46: If swallowed, seek medical advice immediately and show this container o	
Special labelling	I labelling Contains epoxy-containing compounds. Observe manufacturer's instructions. WARNING	
Emergency Overview	CAUSES EYE AND SKIN IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION. HARMFUL TO AQUATIC LIFE WITH LONG LASTING EFFECTS. MAY CAUSE RESPIRATORY TRACT IRRITATION.	

Observe employment restrictions for people

HMIS Ratings

	nino raungo	
	HEALTH 2	2 - Moderate Hazard
	FLAMMABILITY 1	1 - Slight Hazard
	REACTIVITY 1	1 - Slight Hazard
	PERSONAL PROTECTION X	X - Personal protection rating to be supplied by user depending on use conditions
I	NFPA Ratings	

1 2 1 -Modified position TOP, FLAMMABILITY: 1 - Slight Hazard LEFT, HEALTH: 2 - Moderate Hazard RIGHT, REACTIVITY: 1 - Slight Hazard BOTTOM, SPECIAL NOTICE: none



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SECTION 1: Identification of the substance / preparation and of the company

Product identifier Relevant identified uses of the substance or mixture and uses advised against	PE1000+, Comp. B Adhesive mortar for fastening elements" B-Component (Hardener)	
Identified use	none	
Company	Powers Fasteners, Inc. 2 Powers Lane Brewster, NY 10509 / USA Phone +1 800-524-3244 Fax +1 877-871-1965	
Address enquiries to		
Emergency phone Advisory body	CHEMTREC: +1 703-527-3887 (24h) (Emergency Contact Information Only) USA: 800-424-9300	

SECTION 2: Hazards identification

Emergency Overview		
Appearance, Odor:	pasty, red, amine-like	
	DANGER CAUSES (SEVERE) EYE BURNS. CAUSES (SEVERE) SKIN BURNS. MAY CAUSE ALLERGIC SKIN REACTION. MAY CAUSE RESPIRATORY TRACT IRRITATION. HARMFUL IF ABSORBED THROUGH SKIN. HARMFUL IF SWALLOWED. HARMFUL IF INHALED. HARMFUL TO AQUATIC LIFE WITH LONG LASTING EFFECTS.	
OSHA Regulatory Status	This product is classified as hazardous in accordance to OSHA Standard 29 CFR 1910.1200.	
Potential health effects	People who are allergic to amines should avoid the use of the product.	
Potential environmental effects		
SECTION 3: Composition / Information on ingredients		

The product is a mixture.

Range [%]	Substance
10 - <40	3-Aminomethyl-3,5,5-trimethylcyclohexylamine
	CAS: 2855-13-2
10 - <40	Formaldehyde, oligomeric reaction products with phenol and m-phenylenebis(methylamine)
	CAS: 57214-10-5
10 - <25	Formaldehyde, oligomeric reaction products with 4,4'-isopropylidenediphenol and diethylenetriamine
	CAS: 77138-45-5
1 - <10	Benzyl alcohol
	CAS: 100-51-6
1 - <10	m-Phenylenebis(methylamine)
	CAS: 1477-55-0
1 - <5	2,2'-Iminodiethylamine
	CAS: 111-40-0
1 - <3	Phenol
	CAS: 108-95-2

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%. For full text of H-statements and R-phrases: see SECTION 16.



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SECTION 4: First aid measures		

Description of first aid measures	Remove contaminated soaked clothing immediately and dispose of safely.	
Inhalation	Remove the victim into fresh air and keep him calm. Seek medical advice immediately.	
Skin contact	In case of contact with skin wash off immediately with soap and water. Immediate medical treatment necessary, as untreated burns can result in slow-healing wounds.	
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.	
Ingestion	Do not induce vomiting. Seek medical advice immediately. Rinse out mouth and give plenty of water to drink.	
Indication of any immediate medical attention and special treatment needed	Treat symptomatically.	

SECTION 5: Fire-fighting measures

Suitable extinguishing media	foam, dry powder, water spray jet, carbon dioxide
Extinguishing media that must not be used	Full water jet
Special exposure hazards arising from the substance or preparation itself or combustion products	Unknown risk of formation of toxic pyrolysis products. Carbon monoxide (CO) Nitrogen oxides (NOx).
Special protective equipment for firefighters	Do not inhale explosion and/or combustion gases. Use self-contained breathing apparatus. Wear full protective suit.
Additional information	Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations. Collect contaminated firefighting water separately, must not be discharged into the drains.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures	Ensure adequate ventillation. Use personal protective equipment. High risk of slipping due to leakage/spillage of product.
Environmental precautions	Do not discharge into the drains/surface waters/groundwater. In case the product spills into drains/surface waters/groundwater, immediately inform the authorities.
Methods and material for containment and cleaning up	Take up mechanically. Take up residues with absorbent material (e.g. sand, sawdust, generalpurpose binder, diatomaceous earth). Dispose of absorbed material in accordance within the regulations.

Precautions for safe handling	Use only in well-ventilated areas.
Requirements for storage rooms and vessels	Keep only in original container. Prevent penetration into the ground.
Advice on storage compatibility	Do not store together with food and animal food/diet.
Further information on storage conditions	Keep container in a well-ventilated place. Keep container tightly closed. Keep in a cool place. Store in a dry place. Protect from atmospheric moisture and water. Recommended storage temperature: 5 - 25 °C



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SECTION 8: Exposure controls / personal protection

Additional advice on system design Ingredients with occupational exposure

limits to be monitored (US)

	(00)
Range [%]	Substance

Range [%] S	Substance		
1 - <3 F	Phenol		
C	CAS: 108-95-2, EINECS/EL	INCS: 203-632-7, EU-INDEX: 604-001-00-2	
L	Long-term exposure: 5 ppm, 19,2 mg/m³, ACGIH 2011, A4, IBE		
Respiratory prot	tection	If ventilation insufficient, wear respiratory protection. Short term: filter apparatus, combination filter A-P2.	
Hand protection	1	The details concerned are recommendations. Please contact the glove supplier for further information. Nitrile rubber, >480 min (EN 374).	
Eye protection		Tightly fitting goggles.	
Skin protection		Protective clothing.	
General protecti	ive measures	Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier.	
Hygiene measur	res	Remove contaminated soaked clothing immediately and dispose of safely. Do not eat, drink, smoke or take drugs at work. Wash hands before breaks and after work. Use barrier skin cream. Showers and eye wash stations should be provided.	
Delimitation and environmental e	d monitoring of the exposition	See SECTION 6+7.	

SECTION 9: Physical and chemical properties

Form	pasty
Color	red
Odor	amine-like
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	not determined
Flash point [°C]	not applicable
Flammability [°C]	not determined
Lower explosion limit	1,0 Vol%
Upper explosion limit	13 Vol%
Oxidizing properties	not determined
Vapour pressure/gas pressure [kPa]	not determined
Density [g/ml]	not determined
Bulk density [kg/m ³]	not applicable
Solubility in water	partially miscible
Partition coefficient [n-octanol/water]	not determined
Viscosity	not determined
Relative vapour density determined in air	not determined
Evaporation speed	not determined
Melting point [°C]	not determined
Autoignition temperature [°C]	not determined
Decomposition temperature [°C]	not determined



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SECTION	10: Stability and react	ivity
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Reactivity	No dangerous reactions known if used as directed.	
Chemical stability	Stable under normal ambient conditions (ambient temperature).	
Possibility of hazardous reactions	Reactions with oxidizing agents. Reactions with strong acids.	
Conditions to avoid	See SECTION 7.2.	
Incompatible materials	See SECTION 10.3.	
Hazardous decomposition products	No hazardous decomposition products known.	
SECTION 11: Toxicological information		

Information on toxicological effects

Acute toxicity

Range [%]	Substance		
10 - <40	3-Aminomethyl-3,5,5-trimethylcyclohexylamine, CAS: 2855-13-2		
	LD50, oral, Rat: 1030 mg/kg b	w (IUCLID).	
1 - <10	Benzyl alcohol, CAS: 100-51-6)	
	LC50, inhalative, Rat: 8,8 mg/	(4h) (IUCLID).	
	LD50, dermal, Rabbit: 2000 m	g/kg bw (RTECS).	
	LD50, oral, Rat: 1230 mg/kg b	w (IUCLID).	
	LC50, inhalative, Rat: 4,178 m	g/l/4h (OECD TG 403).	
1 - <5	2,2'-Iminodiethylamine, CAS:	111-40-0	
	LD50, dermal, Rabbit: 950 - 12	240 mg/kg bw (IUCLID).	
	LC50, inhalative, Rat: 1,8 mg/	L (IUCLID).	
	LD50, oral, Rat: 819 - 1430 mg	g/kg bw (IUCLID).	
1 - <10	m-Phenylenebis(methylamine)), CAS: 1477-55-0	
	LC50, inhalative, Rat: 2,4-mg/	l/4h (Lit.).	
	LD50, oral, Rat: 930 mg/kg (IL	ICLID).	
	LD50, dermal, Rabbit: ~ 2000	mg/kg (IUCLID).	
	LC50, inhalative, Rat: ~ 700 p	om 1h (IUCLID).	
1 - <3	Phenol, CAS: 108-95-2		
	LD50, oral, Rat: 317 mg/kg (Li	t.).	
	LD50, dermal, Rat: 525-714 m		
	LC50, inhalative, Rat: 316 mg	/l (4h) (Lit.).	
Serious eye da	mage/irritation	Product is caustic.	
Skin corrosior	/irritation	Product is caustic.	
Respiratory or	skin sensitisation	Sensitizing.	
Specific target exposure	organ toxicity — single	not determined	
Specific target exposure	organ toxicity — repeated	not determined	
Mutagenicity		not determined	
Reproduction	toxicity	not determined	
Carcinogenicit	х у	not determined	
General remar	ks	The product was classified on the basis of the calculation procedure of the preparation directive. The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.	



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SECTION 12: Ecological information

Toxicity

Range [%] Substand	ce		
10 - <40 3-Aminor	3-Aminomethyl-3,5,5-trimethylcyclohexylamine, CAS: 2855-13-2		
LC50, (9	6h), Leuciscus idus: 110 mg/L (IUCLID).		
EC50, (2	4h), Leuciscus idus: 42 mg/L (IUCLID).		
EC50, (7	2h), Scenedesmus subspicatus: 37 mg/L (IUCLID).		
1 - <10 Benzyl a	Icohol, CAS: 100-51-6		
EC50, Ba	acteria: 71,4 mg/l (0,5 h) (IUCLID).		
EC50, (2	4h), Daphnia magna: 400 mg/l (IUCLID).		
LC50, (9	6h), Lepomis macrochirus: 10 mg/l (IUCLID).		
1 - <5 2,2'-Imin	odiethylamine, CAS: 111-40-0		
	6h), Leuciscus idus: 430 mg/L (IUCLID).		
EC50, (9	6h), Scenedesmus subspicatus: 592 mg/L (IUCLID).		
	8h), Daphnia magna: 17 mg/L (IUCLID).		
	/lenebis(methylamine), CAS: 1477-55-0		
	h: 130 mg/l (Lit.).		
	acteria: 90 mg/l (Lit.).		
1 - <3 Phenol, (
	8h), Daphnia magna: 4,2 mg/l (Lit.).		
	Sh), Algae: 150 mg/l (Lit.).		
	6h), Oncorhynchus mykiss: 5 mg/l (Lit.).		
Behaviour in environme	•		
Behaviour in sewage pl			
Biological degradability			
COD	not determined		
BOD 5	not determined		
Other adverse effects	The product was classified on the basis of the calculation procedure of the preparation directive. Ecological data of complete product are not available. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials. Do not discharge product unmonitored into the environment.		
SECTION 13: Dispos	al considerations		

Product	Coordinate disposal with the disposal contractor/authorities if necessary.
Contaminated packaging	Uncontaminated packaging may be taken for recycling. Dispose full / partially emptied cartridges as hazardous waste in accordance with official regulations.
RCRA Hazard Class (40CFR 261)	Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities.

Safety Data Sheet (SDS) conforms to ANSI Z400.1/Z129.1-2010 (29 CFR 1910) (US) PE1000+, Comp. B FASTENING INNOVATIONS **Powers Fasteners, Inc.** Brewster, NY 10509 Date printed 18.12.2013, Revision 19.02.2013 Version 01 Page 6 / 8 **SECTION 14: Transport information** Transport by land according to ADR/RID UN 3259 Amines, solid, corrosive, n.o.s. (3-aminomethyl-3,5,5-trimethylcyclohexylamine, mphenylenebis(methylamine)) 8 III - Classification Code C8 - Label - ADR LQ 5 kg - ADR 1.1.3.6 (8.6) Transport category (tunnel restriction code) 3 (E) Inland navigation (ADN) UN 3259 Amines, solid, corrosive, n.o.s. (3-aminomethyl-3,5,5-trimethylcyclohexylamine, mphenylenebis(methylamine)) 8 III - Classification Code C8 - Label Marine transport in accordance with IMDG UN 3259 Amines, solid, corrosive, n.o.s. (3-aminomethyl-3,5,5-trimethylcyclohexylamine, mphenylenebis(methylamine)) 8 III - EMS F-A, S-B - Label - IMDG LQ 5 kg Air transport in accordance with IATA UN 3259 Amines, solid, corrosive, n.o.s. (3-aminomethyl-3,5,5-trimethylcyclohexylamine, mphenylenebis(methylamine)) III - Label **DOT Road Shipment Information (49 CFR)** UN/NA 3259 Amines, solid, corrosive, n.o.s. (3-aminomethyl-3,5,5-trimethylcyclohexylamine,

- Label

m-phenylenebis(methylamine)) 8 III





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SECTION 15: Regulatory information

US Regulations

National regulations

- SARA, 302
- SARA, 311
- SARA, 313
- CA Proposition 65
- TSCA

- FDA

American Conference of Governmental Industrial Hygienists - ACGIH International Agency for Research on Cancer IARC National Toxicology Program - NTP

HAP-VOC Transport-regulations Other Right to Know Laws

EC Regulations

Hazard pictograms

Signal word Contains:

Hazard statements

Precautionary statements

29 CFR 1910.1200, ANSI Z400.1-2010, OSHA-PEL, ACGIH-TLV, NTP, IARC, SARA Title III, NFPA, TSCA, California - Prop. 65 This product is classified as hazardous under SARA 302. This product is classified as hazardous under SARA 311. One or some ingredient(s) are listed under this regulation. This product contains a substance known to the State of California to cause cancer. Silica, Quartz - CAS# 14808-60-7. All chemical substances in this material are included on or exempted from listing on the TSCA Inventory. not applicable ACGIH: yes - contains crystalline silica not determined This product is named NTP - National Toxicology Program (contains crystalline silica). This product is named NTP - National Toxicology Program (contains crystalline silica).

This product is named NTP - National Toxicology Program (contains Benzyl alcohol). This product is named NTP - National Toxicology Program (contains Benzyl alcohol). not applicable DOT-Classification, ADR (2013); IMDG-Code (2013, 36. Amdt.); IATA-DGR (2013).

1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC



DANGER



Formaldehyde, oligomeric reaction products with phenol and m-phenylenebis(methylamine) EINECS: 500-137-0 3-Aminomethyl-3,5,5-trimethylcyclohexylamine EINECS: 220-666-8 Formaldehyde, oligomeric reaction products with 4,4'-isopropylidenediphenol and diethylenetriamine EINECS: 500-263-6 m-Phenylenebis(methylamine) EINECS: 216-032-5 2,2'-Iminodiethylamine EINECS: 203-865-4 Phenol EINECS: 203-632-7 H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H412 Harmful to aquatic life with long lasting effects. H341 Suspected of causing genetic defects. P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P201 Obtain special instructions before use. P260 Do not breathe vapours. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Remove/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. P310 Immediately call a POISON CENTER or doctor/physician. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P363 Wash contaminated clothing before reuse. ~45 % of the mixture consists of ingredient(s) of unknown toxicity.



Brewster, NY 10509 Date printed 18.12.2013, Revision 19.02.2013 Version 01 Page 8 / 8 Contains ~45 % of components with unknown hazards to the aquatic environment. P501 Dispose of contents/container to in accordance with local/regional/national/international regulation. Labelling The product is classified and required to be labelled in accordance with EC-Directives Hazard symbols Corrosive **R-phrases** R 20/21/22: Harmful by inhalation, in contact with skin and if swallowed. R 34: Causes burns. R 43: May cause sensitisation by skin contact. R 52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R 68: Possible risk of irreversible effects. S-phrases S 1/2: Keep locked up and out of reach of children. S 23.3: Do not breathe vapour. S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice S 36/37/39: Wear suitable protective clothing, gloves and eye/face protection. S 45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) S 51: Use only in well-ventilated areas. S 61: Avoid release to the environment. Refer to special instructions, safety data sheets. Special labelling not applicable DANGER **Emergency Overview** CAUSES (SEVERE) EYE BURNS. CAUSES (SEVERE) SKIN BURNS MAY CAUSE ALLERGIC SKIN REACTION. MAY CAUSE RESPIRATORY TRACT IRRITATION. HARMFUL IF ABSORBED THROUGH SKIN. HARMFUL IF SWALLOWED. HARMFUL IF INHALED. HARMFUL TO AQUATIC LIFE WITH LONG LASTING EFFECTS.

SECTION 16: Other information

Powers Fasteners, Inc.

Observe employment restrictions for people

HMIS Ratings

FLAMMABILITY 1 1 - Slight Hazard	
REACTIVITY 1 - Slight Hazard	
PERSONAL PROTECTION X X - Personal protection rating to be supplied by user depending on use condition	ons

yes

NFPA Ratings



TOP, FLAMMABILITY: 1 - Slight Hazard LEFT, HEALTH: 2 - Moderate Hazard RIGHT, REACTIVITY: 1 - Slight Hazard BOTTOM, SPECIAL NOTICE: none