PURE 50+ Component A



Powers Fasteners, Inc. Brewster, NY 10509

Date printed 04.09.2015, Revision 12.06.2015

Version 02. Supersedes version: 01

Page 1 / 10

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

PURE 50+ Component A

1.2 Relevant identified uses of the substance or mixture and uses advised against

1.2.1 Relevant uses

Adhesive mortar for fastening to concrete elements A-Component (Resin)

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company Powers Fasteners, Inc.

2 Powers Lane

Brewster, NY 10509 / USA Phone +1 800-524-3244 Fax +1 877-871-1965

Address enquiries to

Safety Data Sheet sdb@chemiebuero.de

1.4 Emergency telephone number

Advisory body Chemtrec: 1-800-424-9300 (Within Continental USA);

Chemtrec: 703-527-3887 (Outside USA).

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Skin Irrit. 2: H315 Causes skin irritation.
Eye Irrit. 2: H319 Causes serious eye irritation.

Skin Sens. 1: H317 May cause an allergic skin reaction. Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects.

2.2 Label elements

Signal word

The product is required to be labelled in accordance with GHS-Directives.

Hazard pictograms



WARNING

Contains: Reaction product: bisphenol-F-(epichlorhydrin) Epoxy resin (number average molecular

weight ≤ 700)

Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular

weight ≤ 700)

Trimethylolpropane triglycidyl ether

Hazard statements 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.

Precautionary statements P273 Avoid release to the environment.

P280 Wear protective gloves/eye protection/face protection. P302+P352 IF ON SKIN: Wash with plenty of water/soap.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P501 Dispose of contents/container to in accordance with local/regional/national/international

regulation.

PURE 50+ Component A



Powers Fasteners, Inc. Brewster, NY 10509

2.3 Other hazards

Human health dangers People who are allergic to epoxide should avoid the use of the product.

Environmental hazards Does not contain any PBT or vPvB substances.

Other hazards Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

Range [%]	Substance
25 - <50	Reaction product: bisphenol-F-(epichlorhydrin) Epoxy resin (number average molecular weight ≤ 700)
	CAS: 9003-36-5
	GHS: Skin Irrit. 2: H315 - Skin Sens. 1: H317 - Aquatic Chronic 2: H411
10 - <30	Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight ≤ 700)
	CAS: 25068-38-6
	GHS: Skin Irrit. 2: H315 - Eye Irrit. 2: H319 - Skin Sens. 1: H317 - Aquatic Chronic 2: H411
<20	Epoxy resin (number average molecular weight ≤ 700)
·	CAS: 28064-14-4
	GHS: Aquatic Chronic 4: H413
1 - <20	Trimethylolpropane triglycidyl ether
	CAS: 30499-70-8
	GHS: Skin Irrit. 2: H315 - Eye Irrit. 2: H319 - Skin Sens. 1: H317 - Aquatic Chronic 3: H412

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: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information Take off contaminated clothing and wash before reuse.

Inhalation Ensure supply of fresh air.

In the event of symptoms seek 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.

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects
Allergic reactions

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Forward this sheet to the doctor.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media foam, dry powder, water spray jet, carbon dioxide

Extinguishing media that must not

be used

Full water jet

PURE 50+ Component A



Powers Fasteners, Inc. Brewster, NY 10509

Date printed 04.09.2015, Revision 12.06.2015

Version 02. Supersedes version: 01

Page 3 / 10

5.2 Special hazards arising from the substance or mixture

In the event of fire the following can be released:

Carbon monoxide (CO) Chlorine compounds.

5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.

Use self-contained breathing apparatus.

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

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Use personal protective equipment.

High risk of slipping due to leakage/spillage of product.

6.2 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.

6.3 Methods and material for containment and cleaning up

Take up mechanically.

Take up residues with absorbent material (e.g. sand, sawdust, general purpose binder,

diatomaceous earth).

Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.

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.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

Prevent penetration into the ground.

Do not store together with food and animal food/diet.

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

7.3 Specific end use(s)

See product use, SECTION 1.2

PURE 50+ Component A



Powers Fasteners, Inc. Brewster, NY 10509

Date printed 04.09.2015, Revision 12.06.2015

Version 02. Supersedes version: 01

Page 4 / 10

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (US)

not applicable

DNEL

DNEL	
Range [%]	Substance
10 - <30	Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight ≤ 700), CAS: 25068-38-6
	Industrial, dermal, Long-term - systemic effects: 8,33 mg/kg bw/d.
	Industrial, inhalative, Long-term - systemic effects: 12,25 mg/m³.
	Industrial, inhalative, Acute - systemic effects: 12,25 mg/m³.
	Industrial, dermal, Acute - systemic effects: 8,33 mg/kg bw/d.
	general population, oral, Acute - systemic effects: 0,75 mg/kg bw/d.
	general population, oral, Long-term - systemic effects: 0,75 mg/kg bw/d.
	general population, dermal, Long-term - systemic effects: 3,571 mg/kg bw/d.
	general population, dermal, Acute - systemic effects: 3,571 mg/kg bw/d.
25 - <50	Reaction product: bisphenol-F-(epichlorhydrin) Epoxy resin (number average molecular weight ≤ 700), CAS: 9003-36-5
	Industrial, dermal, Long-term - systemic effects: 104,15 mg/kg.
	Industrial, inhalative, Long-term - systemic effects: 29,39 mg/m³.
	general population, oral, Long-term - systemic effects: 6,25 mg/kg.
	general population, dermal, Long-term - systemic effects: 62,5 mg/kg.
	general population, inhalative, Long-term - systemic effects: 8,7 mg/m³.
PNEC	
Range [%]	Substance
10 - <30	Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight ≤ 700), CAS: 25068-

NEC	
Range [%]	Substance
10 - <30	Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight ≤ 700), CAS: 25068 38-6
İ	soil, 0,196 mg/l.
	sediment (seaater), 0,0996 mg/l.
	sediment (freshwater), 0,996 mg/l.
	sewage treatment plants (STP), 10 mg/l.
	seawater, 0,0006 mg/l.
	freshwater, 0,006 mg/l.
25 - <50	Reaction product: bisphenol-F-(epichlorhydrin) Epoxy resin (number average molecular weight ≤ 700), CAS: 9003-36-5
	soil, 0,237 mg/kg.
	sediment (seaater), 0,0294 mg/kg.
	seawater, 0,0003 mg/l.
	sediment (freshwater), 0,294 mg/kg.
	freshwater, 0,003 mg/l.
	sewage treatment plants (STP), 10 mg/l.

PURE 50+ Component A



Powers Fasteners, Inc. Brewster, NY 10509

Date printed 04.09.2015, Revision 12.06.2015 Page 5 / 10 Version 02. Supersedes version: 01

8.2 **Exposure controls**

> Additional advice on system design Ensure adequate ventilation on workstation.

Eye protection safety glasses

Hand protection The details concerned are recommendations. Please contact the glove supplier for further

information.

Nitrile rubber, >480 min (EN 374).

Skin protection Protective clothing.

> 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 handled. The resistance of this equipment to

chemicals should be ascertained with the respective supplier.

Respiratory protection If ventilation is insufficient, wear respiratory protection.

Short term: filter apparatus, combination filter A-P2.

Thermal hazards not applicable

Delimitation and monitoring of the environmental exposition

Protect the environment by applying appropriate control measures to prevent or limit

emissions.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form pasty Color light beige Odor characteristic **Odour threshold** not determined 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 not determined Upper explosion limit Oxidizing properties not determined Vapour pressure/gas pressure [kPa] not determined 1,33 (23°C / 73,4°F) Density [g/ml] Bulk density [kg/m³] not applicable Solubility in water insoluble Partition coefficient [n-octanol/water] not determined Viscosity not determined Relative vapour density determined not determined in air

Evaporation speed not determined Melting point [°C] not determined Autoignition temperature [°C] not determined Decomposition temperature [°C] not determined

Other information No information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

PURE 50+ Component A



Powers Fasteners, Inc. Brewster, NY 10509

Date printed 04.09.2015, Revision 12.06.2015

Version 02. Supersedes version: 01

Page 6 / 10

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with oxidizing agents.

Reactions with alkalies, amines and strong acids.

Reactions with alcohols.

10.4 Conditions to avoid

See SECTION 7.2.

10.5 Incompatible materials

See SECTION 10.3.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Serious eye damage/irritation

Acute toxicity

Range [%]	Substance
10 - <30	Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight ≤ 700), CAS: 25068-38-6
	LD50, dermal, Rabbit: 23000 mg/kg.
	LD50, oral, Rat: > 15000 mg/kg.
1 - <20	Trimethylolpropane triglycidyl ether, CAS: 30499-70-8
	LD50, oral, Rat: > 2000 mg/kg bw.
25 - <50	Reaction product: bisphenol-F-(epichlorhydrin) Epoxy resin (number average molecular weight ≤ 700), CAS: 9003-36-5
	LD50, dermal, Rat: > 2000 mg/kg.
	LD50, oral, Rat: > 10000 mg/kg.
	NOAEL, oral, 250 mg/kg/day.

Skin corrosion/irritation not determined Respiratory or skin sensitisation not determined Specific target organ toxicity not determined single exposure Specific target organ toxicity not determined repeated exposure Mutagenicity not determined Reproduction toxicity not determined not determined Carcinogenicity **General remarks**

not determined

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.

PURE 50+ Component A



Powers Fasteners, Inc. Brewster, NY 10509

Date printed 04.09.2015, Revision 12.06.2015 Version 02. Supersedes version: 01 Page 7 / 10

SECTION 12: Ecological information

12.1 Toxicity

Range [%]	Substance
10 - <30	Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight ≤ 700), CAS: 25068-38-6
	LC50, (96h), Oncorhynchus mykiss: 2 mg/l.
	EC50, (48h), Daphnia magna: 1,8 mg/l.
	IC50, Bacteria: > 42,6 mg/l (18 h).
	ErC50, (72h), Selenastrum capricornutum: 11 mg/l.
25 - <50	Reaction product: bisphenol-F-(epichlorhydrin) Epoxy resin (number average molecular weight ≤ 700), CAS: 9003-36-5
	LC50, (72h), Algae: 1,8 mg/l.
	LC50, (48h), Daphnia magna: 2,55 mg/l.
	EC50, (96h), Leuciscus idus: 2,54 mg/l.

12.2 Persistence and degradability

Behaviour in environment

compartments

not determined

Behaviour in sewage plant not determined Biological degradability not determined

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Other adverse effects

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.

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.

PURE 50+ Component A



Powers Fasteners, Inc. Brewster, NY 10509

Date printed 04.09.2015, Revision 12.06.2015

Version 02. Supersedes version: 01

Page 8 / 10

SECTION 14: Transport

14.1 UN number

See SECTION 14.2 in accordance with UN shipping name

14.2 UN proper shipping name

Transport by land according to

ADR/RID

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

- Classification Code M7

- Label



- ADR LQ 5 kg

- ADR 1.1.3.6 (8.6) Transport category (tunnel restriction code) 3 (E)

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

- Classification Code M7

- Label



Marine transport in accordance with **IMDG**

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

- EMS F-A, S-F

- Label



- IMDG LQ 5 kg

Air transport in accordance with IATA UN 3077 Environmentally hazardous substance, solid, n.o.s. (Bisphenol A/F Epoxy resin) 9 III

- Label



DOT Road Shipment Information (49 CFR)

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

- Label



14.3 Transport hazard class(es)

See SECTION 14.2 in accordance with UN shipping name

14.4 Packing group

See SECTION 14.2 in accordance with UN shipping name

14.5 Environmental hazards

See SECTION 14.2 in accordance with UN shipping name

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

not applicable

PURE 50+ Component A



Powers Fasteners, Inc. Brewster, NY 10509

SECTION 15: Regulatory information

US Regulations

National regulations 29 CFR 1910.1200, HCS 2012, ANSI Z400.1-2010, OSHA-PEL, ACGIH-TLV, NTP, IARC,

SARA Title III, NFPA, TSCA, California - Prop. 65

- SARA, 302 not determined

- SARA, 311 This product is classified as hazardous under SARA 311.

- SARA, 313 Not determinated.

- CA Proposition 65 This product contains a substance known to the State of California to cause cancer. Silica,

Quartz - CAS# 14808-60-7.

- TSCA All chemical substances in this material are included on or exempted from listing on the

TSCA Inventory.

- FDA not applicable

American Conference of Governmental

Industrial Hygienists - ACGIH

ACGIH: yes - contains crystalline silica

International Agency for Research on

Cancer IARC

IARC: yes - contains crystalline silica.

National Toxicology Program - NTP This product is named NTP - National Toxicology Program (contains crystalline silica).

This product is named NTP - National Toxicology Program (contains glycerol).

HAP-VOC

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

SECTION 16: Other information

16.1 Hazard statements (SECTION 3)

H412 Harmful to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

H317 May cause an allergic skin reaction.

H315 Causes skin irritation.

16.2 Abbreviations and acronyms:

ACGIH = American Conference of Governmental Industrial Hygienists:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route;

RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses;

ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure;

CAS = Chemical Abstracts Service;

CERCLA = Comprehensive Environmental Response, Compensation and Liability Act;

CFR = Code of Federal Regulations;

CPR = Controlled Products Regulations;

DNEL = Derived No Effect Level;

DOT = Department of Transportation;

EC50 = Median effective concentration;

EPA = Environmental Protection Agency:

GHS = Globally Harmonized System of Classification and Labelling of Chemicals;

IATA = International Air Transport Association;

IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk;

IC50 = Inhibition concentration, 50%;

IMDG = International Maritime Code for Dangerous Goods;

IARC = International Agency of Research on Cancer;

IATA = International Air Transport Association;

TSCA = Toxic Substance Control Act;

HMIS = Hazardous Materials Identification System;

NFPA = National Fire Protection Association;

NIOSH = National Institute for Occupational Safety and Health;

OSHA = Occupational Safety and Health Administration;

LC50 = Lethal concentration, 50%;

LD50 = Median lethal dose, 50%;

MARPOL = International Convention for the Prevention of Marine Pollution from Ships;

PBT = Persistent, Bioaccumulative and Toxic substance;

PNEC = Predicted No-Effect Concentration;

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals;

PURE 50+ Component A



Powers Fasteners, Inc. Brewster, NY 10509

Date printed 04.09.2015, Revision 12.06.2015

Version 02. Supersedes version: 01

Page 10 / 10

SARA = Superfund Amendments and Reauthorization Act; TLV®/TWA = Threshold limit value – time-weighted average; TLV®STEL = Threshold limit value – short-time exposure limit; VOC = Volatile Organic Compounds; vPvB = very Persistent and very Bioaccumulative;

16.3 Ratings

HMIS Ratings



NFPA Ratings



TOP, FLAMMABILITY: 1 - Slight Hazard

LEFT, HEALTH: 2 - Moderate Hazard RIGHT, REACTIVITY: 1 - Slight Hazard

BOTTOM, SPECIAL NOTICE: -

16.4 Other information

Classification procedure

Skin Irrit. 2: H315 Causes skin irritation. (Calculation method)
Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)
Skin Sens. 1: H317 May cause an allergic skin reaction. (Calculation method)

Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects. (Calculation method)

Modified position

SECTION 3 been added: Epoxy resin (number average molecular weight ≤ 700)
SECTION 2 been added: P302+P352 IF ON SKIN: Wash with plenty of water/soap.

SECTION 2 deleted: P391 Collect spillage.

SECTION 2 been added: The product is required to be labelled in accordance with GHS/CLP-Directives

Directives.

SECTION 2 been added: Does not contain any PBT or vPvB substances.

SECTION 4 deleted: Change soaked clothing immediately.

SECTION 4 been added: Take off contaminated clothing and wash before reuse.

SECTION 5 deleted: Risk of formation of toxic pyrolysis products.

SECTION 5 been added: In the event of fire the following can be released:

SECTION 7 deleted: Keep away from all sources of ignition - Refrain from smoking.

SECTION 7 deleted: Take precautionary measures against static discharges.

SECTION 8 been added: Protect the environment by applying appropriate control measures to prevent or limit emissions.

SECTION 8 deleted: Tightly fitting goggles. SECTION 8 deleted: See SECTION 6+7. SECTION 8 been added: safety glasses

SECTION 11 deleted: Irritant SECTION 11 deleted: Irritant SECTION 11 deleted: Sensitizing.

SECTION 12 deleted: The product was classified on the basis of the calculation procedure of the preparation directive.

SECTION 15 deleted: Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16 been added: Observe employment restrictions for young people.

SECTION 16 been added: Calculation method

PURE 50+ Component B



Powers Fasteners, Inc. Brewster, NY 10509

Date printed 04.09.2015, Revision 04.09.2015

Version 02. Supersedes version: 01

Page 1 / 12

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

PURE 50+ Component B

1.2 Relevant identified uses of the substance or mixture and uses advised against

1.2.1 Relevant uses

Adhesive mortar for fastening to concrete elements B-Component (Hardener)

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company Powers Fasteners, Inc.

2 Powers Lane

Brewster, NY 10509 / USA Phone +1 800-524-3244 Fax +1 877-871-1965

Address enquiries to

Safety Data Sheet sdb@chemiebuero.de

1.4 Emergency telephone number

Advisory body Chemtrec: 1-800-424-9300 (Within Continental USA);

Chemtrec: 703-527-3887 (Outside USA).

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Skin Corr. 1B: H314 Causes severe skin burns and eye damage. Skin Sens. 1: H317 May cause an allergic skin reaction. Muta. 2: H341 Suspected of causing genetic defects. Eye Dam. 1: H318 Causes serious eye damage.

PURE 50+ Component B



Powers Fasteners, Inc. Brewster, NY 10509

Date printed 04.09.2015, Revision 04.09.2015

Version 02. Supersedes version: 01

Page 2 / 12

2.2 Label elements

The product is required to be labelled in accordance with GHS-Directives.

Hazard pictograms



Signal word DANGER

Contains: Formaldehyde, oligomeric reaction products with phenol and m-phenylenebis(methylamine)

m-Phenylenebis(methylamine)

Phenol

Hazard statements H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.
H341 Suspected of causing genetic defects.

Precautionary statements P201 Obtain special instructions before use.

P260 Do not breathe vapours.

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): 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. P310 Immediately call a POISON CENTER/doctor. P363 Wash contaminated clothing before reuse.

P501 Dispose of contents/container to in accordance with local/regional/national/international

regulation.

P405 Store locked up.

2.3 Other hazards

Human health dangers People who are allergic to amines should avoid the use of the product.

Other hazards Further hazards were not determined with the current level of knowledge.

PURE 50+ Component B



Powers Fasteners, Inc. Brewster, NY 10509

Date printed 04.09.2015, Revision 04.09.2015 Version 02. Supersedes version: 01 Page 3 / 12

SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

Range [%]	Substance
	Formaldehyde, oligomeric reaction products with phenol and m-phenylenebis(methylamine)
	CAS: 57214-10-5
	GHS/ Skin Corr. 1B: H314 - Skin Sens. 1: H317
5 - <15	m-Phenylenebis(methylamine)
	CAS: 1477-55-0
	GHS: Acute Tox. 4: H302 - Acute Tox. 4: H332 - Skin Corr. 1B: H314 - Eye Dam. 1: H318 - Skin Sens. 1: H317 - Aquatic Chronic 3: H412
3 - <10	Phenol
	CAS: 108-95-2
	GHS: Muta. 2: H341 - Acute Tox. 3: H301 - Acute Tox. 3: H311 - Acute Tox. 3: H331 - STOT RE 2: H373 - Skin Corr. 1B: H314 - Eye Dam. 1: H318
1 - <5	2,4,6-Tris(dimethylaminomethyl)phenol
	CAS: 90-72-2
	GHS: Acute Tox. 4: H302 - Skin Irrit. 2: H315 - Eye Irrit. 2: H319
1 - <5	Benzyl alcohol
	CAS: 100-51-6
	GHS: Acute Tox. 4: H302 H332
1 - <3	Quartz (< 10µm)
	CAS: 14808-60-7
	GHS: STOT RE 1: H372

Comment on component partsThe quartz in this preparation is not available on foreseeable use.

Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%.

For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information 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. Shield unaffected eye.

Seek medical advice immediately.

Ingestion Do not induce vomiting.

Seek medical advice immediately.

Rinse out mouth and give plenty of water to drink.

4.2 Most important symptoms and effects, both acute and delayed

Product is caustic. Allergic reactions

Risk of serious damage to eyes.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

PURE 50+ Component B



Powers Fasteners, Inc. Brewster, NY 10509

Date printed 04.09.2015, Revision 04.09.2015 Version 02. Supersedes version: 01 Page 4 / 12

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

foam, dry powder, water spray jet, carbon dioxide

Extinguishing media that must not

be used

Full water jet

5.2 Special hazards arising from the substance or mixture

In the event of fire the following can be released:

Carbon monoxide (CO) Nitrogen oxides (NOx).

5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.

Use self-contained breathing apparatus.

Wear full protective suit.

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

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Use personal protective equipment.

High risk of slipping due to leakage/spillage of product.

6.2 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.

6.3 Methods and material for containment and cleaning up

Take up mechanically.

Take up residues with absorbent material (e.g. sand, sawdust, general purpose binder,

diatomaceous earth).

Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.

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.

PURE 50+ Component B



Powers Fasteners, Inc. Brewster, NY 10509

Date printed 04.09.2015, Revision 04.09.2015

Version 02. Supersedes version: 01

Page 5 / 12

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container. Prevent penetration into the ground.

Do not store together with food and animal food/diet.

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 (41-77 °F).

7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (US)

expecure initio to	30 memerou (00)
Range [%]	Substance
5 - <15	m-Phenylenebis(methylamine)
	CAS: 1477-55-0, EINECS/ELINCS: 216-032-5, ECB-Nr.: 01-2119480150-50-XXXX
	Long-term exposure: NIOSH
	Short-term exposure (15-minute): 0,1 mg/m³
3 - <10	Phenol
	CAS: 108-95-2, EINECS/ELINCS: 203-632-7, EU-INDEX: 604-001-00-2
	Long-term exposure: 5 ppm, 19 mg/m³, NIOSH, OSHA
	Short-term exposure (15-minute): 15.6 ppm, 60 mg/m³

8.2 Exposure controls

Additional advice on system design
Ensure adequate ventilation on workstation.

Eye protection Tightly fitting goggles.

Hand protection The details concerned are recommendations. Please contact the glove supplier for further

information.

0,7 mm Nitrile rubber, >480 min (EN 374).

Skin protection Protective clothing.

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 handled. The resistance of this equipment to

chemicals should be ascertained with the respective supplier.

Respiratory protection If ventilation is insufficient, wear respiratory protection.

Short term: filter apparatus, combination filter A-P2.

Thermal hazards not applicable

Delimitation and monitoring of the

environmental exposition

Protect the environment by applying appropriate control measures to prevent or limit

emissions.

PURE 50+ Component B



Powers Fasteners, Inc. Brewster, NY 10509

Date printed 04.09.2015, Revision 04.09.2015 Version 02. Supersedes version: 01 Page 6 / 12

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form pasty Color black Odor amine-like Odour threshold not determined 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] ~1,84

Bulk density [kg/m³] not applicable
Solubility in water partially miscible
Partition coefficient [n-octanol/water] not determined
Viscosity not determined
Relative vapour density determined

in air

Evaporation speed not determined

Melting point [°C] not determined

Autoignition temperature [°C] not determined

Decomposition temperature [°C] not determined

9.2 Other information No information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with oxidizing agents. Reactions with strong acids. Reactions with epoxides

10.4 Conditions to avoid

See SECTION 7.2.

10.5 Incompatible materials

See SECTION 10.3.

Copper and copper-bearing alloys

Safety Data Sheet (SDS) according to OSHA-GHS (29 CFR 1910.1200 HCS 2012) (US) PURE 50+ Component B



Powers Fasteners, Inc. Brewster, NY 10509

Date printed 04.09.2015, Revision 04.09.2015

Version 02. Supersedes version: 01

Page 7 / 12

10.6 Hazardous decomposition products

No hazardous decomposition products known.

PURE 50+ Component B



Powers Fasteners, Inc. Brewster, NY 10509

Page 8 / 12 Date printed 04.09.2015, Revision 04.09.2015 Version 02. Supersedes version: 01

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acuto	toxicity
Acute	LUXICIL

Product ATE-mix, inhalativ (mist), > 5 mg/l (4 h). ATE-mix, dermal, Rat: > 2000 mg/kg. ATE-mix, oral, Rat: > 2000 mg/kg Range [%] Substance 1 - <5 Benzyl alcohol, CAS: 100-51-6 LD50, dermal, Rabbit: 2000 mg/kg bw (RTECS). LD50, oral, Rat: 1230 mg/kg bw (IUCLID) LC50, inhalative, Rat: 4,178 mg/l/4h (OECD TG 403). LC50, inhalative, Rat: 8,8 mg/l (4h) (IUCLID) 1 - <5 2,4,6-Tris(dimethylaminomethyl)phenol, CAS: 90-72-2 LD50, dermal, Rat: 1280 mg/kg. LD50, oral, Rat: 1200 mg/kg. 3 - <10 Phenol, CAS: 108-95-2 LD50, dermal, Rat: 660 mg/kg (OECD 402) LD50, oral, Rat: 317 mg/kg (RTECS) LC50, inhalative, Rat: 0,316 mg/l (RTECS) 20 - 30 Formaldehyde, oligomeric reaction products with phenol and m-phenylenebis(methylamine), CAS: 57214-10-5 LD50, oral, Rat: > 5000 mg/kg 5 - <15 m-Phenylenebis(methylamine), CAS: 1477-55-0 LD50, dermal, Rabbit: 2000 mg/kg. LD50, oral, Rat: 930 mg/kg. LC50, inhalative, Rat (female): 0,8 mg/l/4h. LC50, inhalative, Rat: 2,4 mg/l/4h. LC50, inhalative, Rat: 3,89 mg/l/1h.

Serious eye damage/irritation Toxicological data of complete product are not available.

Risk of serious damage to eyes.

Calculation method

Toxicological data of complete product are not available. Skin corrosion/irritation

Product is caustic. Calculation method

Toxicological data of complete product are not available. Respiratory or skin sensitisation

May cause an allergic skin reaction.

Calculation method

Specific target organ toxicity single exposure

repeated exposure

Does not contain any relevant substances fulfilling the classification criteria.

Specific target organ toxicity — Toxicological data of complete product are not available. Based on the information available, the classification criteria have not been fulfilled.

Toxicological data of complete product are not available. Mutagenicity

Suspected of causing genetic defects.

Calculation method

Reproduction toxicity Does not contain any relevant substances fulfilling the classification criteria.

Carcinogenicity Does not contain any relevant substances fulfilling the classification criteria. Aspiration hazard Does not contain any relevant substances fulfilling the classification criteria.

General remarks 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.

Safety Data Sheet (SDS) according to OSHA-GHS (29 CFR 1910.1200 HCS 2012) (US) PURE 50+ Component B



Powers Fasteners, Inc. Brewster, NY 10509

Date printed 04.09.2015, Revision 04.09.2015 Version 02. Supersedes version: 01 Page 9 / 12

SECTION 12: Ecological information

12.1 Toxicity

Range [%]	Substance
1 - <5	Benzyl alcohol, CAS: 100-51-6
	LC50, (96h), Lepomis macrochirus: 10 mg/l (IUCLID).
	EC50, Bacteria: 71,4 mg/l (0,5 h) (IUCLID).
	EC50, (24h), Daphnia magna: 400 mg/l (IUCLID).
3 - <10	Phenol, CAS: 108-95-2
	LC50, (96h), Oncorhynchus mykiss: 5 mg/l (Lit.).
	EC50, (48h), Daphnia magna: 4,2 mg/l (Lit.).
	IC50, (96h), Algae: 150 mg/l (Lit.).

12.2 Persistence and degradability

Behaviour in environment

compartments

not determined

Behaviour in sewage plant Biological degradability

not determined not determined

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Other adverse effects

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: 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.

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.

PURE 50+ Component B



Powers Fasteners, Inc. Brewster, NY 10509

Date printed 04.09.2015, Revision 04.09.2015

Version 02. Supersedes version: 01

Page 10 / 12

SECTION 14: Transport

14.1 UN number

See SECTION 14.2 in accordance with UN shipping name

14.2 UN proper shipping name

Transport by land according to

ADR/RID

C8

- Classification Code

- Label

- ADR LQ

1 kg

C8

- ADR 1.1.3.6 (8.6)

Transport category (tunnel restriction code) 2 (E)

Inland navigation (ADN)

UN 3259 Amines, solid, corrosive, n.o.s. (Phenol, m-Phenylenebis(methylamine)) 8 II

UN 3259 Amines, solid, corrosive, n.o.s. (Phenol, m-Phenylenebis(methylamine)) 8 II

- Classification Code

- Label



IMDG

Marine transport in accordance with UN 3259 Amines, solid, corrosive, n.o.s. (Phenol, m-Phenylenebis(methylamine)) 8 II

- EMS

F-A, S-B

- Label

- IMDG LQ

Air transport in accordance with IATA UN 3259 Amines, solid, corrosive, n.o.s. (Phenol, m-Phenylenebis(methylamine)) 8 II

- Label



DOT Road Shipment Information (49 CFR) UN/NA 3259 Amines, solid, corrosive, n.o.s. (Phenol, m-Phenylenebis(methylamine)) 8 II

- Label



14.3 Transport hazard class(es)

See SECTION 14.2 in accordance with UN shipping name

14.4 Packing group

See SECTION 14.2 in accordance with UN shipping name

14.5 Environmental hazards

See SECTION 14.2 in accordance with UN shipping name

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

not applicable

PURE 50+ Component B



Powers Fasteners, Inc. Brewster, NY 10509

Date printed 04.09.2015, Revision 04.09.2015 Version 02. Supersedes version: 01 Page 11 / 12

SECTION 15: Regulatory information

US Regulations

National regulations 29 CFR 1910.1200, ANSI Z400.1-2010, OSHA-PEL, ACGIH-TLV, NTP, IARC, SARA Title III,

NFPA, TSCA, California - Prop. 65

- SARA, 302 This product is classified as hazardous under SARA 302. - SARA, 311 This product is classified as hazardous under SARA 311. - SARA, 313 One or some ingredient(s) are listed under this regulation.

- CA Proposition 65 This product contains crystalline silica known to the State of California to cause cancer.

All chemical substances in this material are included on or exempted from listing on the

TSCA Inventory. not applicable not determined

American Conference of Governmental

Industrial Hygienists - ACGIH

International Agency for Research on

National Toxicology Program - NTP

Cancer IARC

- TSCA

- FDA

IARC: Contains one substance Group 3: Not classifiable as to carcinogenicity to humans.

This product is named NTP - National Toxicology Program (contains crystalline silica). This product is named NTP - National Toxicology Program (contains Phenol).

This product is named NTP - National Toxicology Program (contains Benzyl alcohol).

HAP-VOC

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

Other Right to Know Laws

SECTION 16: Other information

16.1 Hazard statements (SECTION 3)

H372 Causes damage to organs through prolonged or repeated exposure.

H302+H332 Harmful if swallowed or if inhaled.

H319 Causes serious eye irritation.

H315 Causes skin irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

H331 Toxic if inhaled.

H311 Toxic in contact with skin.

H301 Toxic if swallowed.

H341 Suspected of causing genetic defects.

H412 Harmful to aquatic life with long lasting effects.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H314 Causes severe skin burns and eye damage.

16.2 Ratings

HMIS Ratings



NFPA Ratings



TOP, FLAMMABILITY: 1 - Slight Hazard

LEFT, HEALTH: 3 - Severe Hazard RIGHT, REACTIVITY: 1 - Slight Hazard

BOTTOM, SPECIAL NOTICE: -

PURE 50+ Component B



Powers Fasteners, Inc. Brewster, NY 10509

Date printed 04.09.2015, Revision 04.09.2015

Version 02. Supersedes version: 01

Page 12 / 12

16.3 Abbreviations and acronyms:

ACGIH = American Conference of Governmental Industrial Hygienists;

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route:

RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses:

ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure;

CAS = Chemical Abstracts Service;

CERCLA = Comprehensive Environmental Response, Compensation and Liability Act;

CFR = Code of Federal Regulations; CPR = Controlled Products Regulations;

DMEL = Derived Minimum Effect Level;

DNEL = Derived No Effect Level;

DOT = Department of Transportation; EC50 = Median effective concentration;

EPA = Environmental Protection Agency;

GHS = Globally Harmonized System of Classification and Labelling of Chemicals;

IATA = International Air Transport Association;

IBC-Code = International Code for the Construction and Equipment of Ships carrying

Dangerous Chemicals in Bulk;

IC50 = Inhibition concentration, 50%;

IMDG = International Maritime Code for Dangerous Goods;

IARC = International Agency of Research on Cancer;

IATA = International Air Transport Association;

TSCA = Toxic Substance Control Act;

HMIS = Hazardous Materials Identification System;

NFPA = National Fire Protection Association;

NIOSH = National Institute for Occupational Safety and Health;

OSHA = Occupational Safety and Health Administration;

LC50 = Lethal concentration, 50%;

LD50 = Median lethal dose, 50%;

MARPOL = International Convention for the Prevention of Marine Pollution from Ships;

PBT = Persistent, Bioaccumulative and Toxic substance;

PNEC = Predicted No-Effect Concentration;

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals;

SARA = Superfund Amendments and Reauthorization Act; TLV®/TWA = Threshold limit value – time-weighted average; TLV®STEL = Threshold limit value – short-time exposure limit;

VOC = Volatile Organic Compounds;

vPvB = very Persistent and very Bioaccumulative;

16.4 Other information

Classification procedure Skin Corr. 1B: H314 Causes severe skin burns and eye damage. (Calculation method)

Skin Sens. 1: H317 May cause an allergic skin reaction. (Calculation method) Muta. 2: H341 Suspected of causing genetic defects. (Calculation method) Eye Dam. 1: H318 Causes serious eye damage. (Calculation method)

Modified position none