

Powers Fasteners, Inc.
Brewster, NY 10509

Date printed 03.09.2015, Revision 03.09.2015

Version 02. Supersedes version: 01

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

1.1 Product identifier

PE1000+, Comp. 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

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

Hazard pictograms



Signal word

WARNING

Contains:

Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight ≤ 700)

Reaction product: bisphenol-F-(epichlorhydrin) Epoxy resin (number average molecular weight ≤ 700)

1,6-Bis(2,3-epoxypropoxy)hexane

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.
P363 Wash contaminated clothing before reuse.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.
P501 Dispose of contents/container to in accordance with local/regional/national/international regulation.

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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-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
10 - <20	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 - <20	1,6-Bis(2,3-epoxypropoxy)hexane
	CAS: 16096-31-4
	GHS: Skin Irrit. 2: H315 - Eye Irrit. 2: H319 - Skin Sens. 1: H317 - Aquatic Chronic 3: H412
1 - <10	Alkyl Ester (Ref.:722 43/00/2012.0028, Germany)
	GHS: Eye Irrit. 2: H319
1 - <5	Quartz (< 10µm)
	CAS: 14808-60-7
	GHS: STOT RE 1: H372

Comment on component parts The 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 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.

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

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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 with 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 with 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 / 41 - 77 F

7.3 Specific end use(s)

See product use, SECTION 1.2

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SECTION 8: Exposure controls/personal protection

Ingredients with occupational exposure limits to be monitored (US)

8.1 Control parameters

not applicable

DNEL

Range [%]	Substance
25 - <50	Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight ≤ 700), CAS: 25068-38-6
	Industrial, inhalative, Acute - systemic effects: 12,25 mg/m ³ .
	Industrial, inhalative, Long-term - systemic effects: 12,25 mg/m ³ .
	Industrial, dermal, Long-term - systemic effects: 8,33 mg/kg bw/d.
	Industrial, dermal, Acute - systemic effects: 8,33 mg/kg bw/d.
	general population, dermal, Acute - systemic effects: 3,571 mg/kg bw/d.
	general population, dermal, Long-term - systemic effects: 3,571 mg/kg bw/d.
	general population, oral, Long-term - systemic effects: 0,75 mg/kg bw/d.
10 - <20	Reaction product: bisphenol-F-(epichlorhydrin) Epoxy resin (number average molecular weight ≤ 700), CAS: 9003-36-5
	Industrial, dermal, Acute - local effects: 0,0083 mg/cm ² .
	Industrial, dermal, Long-term - systemic effects: 104,15 mg/kg bw/d.
	Industrial, inhalative, Long-term - systemic effects: 29,39 mg/m ³ .
	general population, inhalative, Long-term - systemic effects: 8,7 mg/m ³ .
	general population, dermal, Long-term - systemic effects: 62,5 mg/kg bw/d.
10 - <20	1,6-Bis(2,3-epoxypropoxy)hexane, CAS: 16096-31-4
	worker, dermal, Long-term - local effects: 22,6 µg/cm ² .
	worker, dermal, Long-term - systemic effects: 2,8 mg/kg bw/d.
	worker, inhalative, Long-term - local effects: 0,44 mg/m ³ .
	worker, inhalative, Long-term - systemic effects: 4,9 mg/m ³ .
	general population, inhalative, Long-term - local effects: 0,27 mg/m ³ .
	general population, dermal, Acute - systemic effects: 1,7 mg/kg bw/d.
	general population, inhalative, Acute - systemic effects: 2,9 mg/m ³ .
	general population, oral, Acute - systemic effects: 0,83 mg/kg bw/d.
	general population, dermal, Acute - local effects: 13,6 µg/cm ² .
	general population, dermal, Long-term - systemic effects: 1,7 mg/kg bw/d.
	general population, inhalative, Long-term - systemic effects: 2,9 mg/m ³ .
	general population, oral, Long-term - systemic effects: 0,83 mg/kg bw/d.
general population, dermal, Long-term - local effects: 13,6 µg/cm ² .	

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PNEC

Range [%]	Substance
25 - <50	Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight ≤ 700), CAS: 25068-38-6
	seawater, 0,0006 mg/l.
	sewage treatment plants (STP), 10 mg/l.
	sediment (freshwater), 0,996 mg/l.
	sediment (seaater), 0,0996 mg/l.
	soil, 0,196 mg/l.
	freshwater, 0,006 mg/l.
10 - <20	Reaction product: bisphenol-F-(epichlorhydrin) Epoxy resin (number average molecular weight ≤ 700), CAS: 9003-36-5
	sewage treatment plants (STP), 10 mg/l.
	seawater, 0,0003 mg/l.
	sediment (freshwater), 0,294 mg/kg dw.
	sediment (seaater), 0,0294 mg/kg dw.
	soil, 0,237 mg/kg dw.
	freshwater, 0,003 mg/l.
10 - <20	1,6-Bis(2,3-epoxypropoxy)hexane, CAS: 16096-31-4
	sediment (freshwater), 0,283 mg/kg dw.
	freshwater, 0,0115 mg/l.
	seawater, 1,15 µg/l.
	sediment (seaater), 0,283 mg/kg dw.

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. 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.

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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
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/m ³]	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

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 alkalis, 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.

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SECTION 11: Toxicological information

11.1 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, dermal, Rabbit: 23000 mg/kg.
	LD50, oral, Rat: > 15000 mg/kg.
10 - <20	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: > 2000 mg/kg.
10 - <20	1,6-Bis(2,3-epoxypropoxy)hexane, CAS: 16096-31-4
	LD50, dermal, Rat: > 2000 mg/kg bw.
	LD50, oral, Rat: 2900 mg/kg bw.
1 - <10	Alkyl Ester (Ref.:722 43/00/2012.0028, Germany)
	LD50, dermal, Rabbit: > 2000 mg/kg.
	LD50, oral, Rat: 5000 mg/kg.

Serious eye damage/irritation	Toxicological data of complete product are not available. Irritant Calculation method
Skin corrosion/irritation	Toxicological data of complete product are not available. Irritant Calculation method
Respiratory or skin sensitisation	Toxicological data of complete product are not available. May cause an allergic skin reaction. Calculation method
Specific target organ toxicity — single exposure	Does not contain any relevant substances fulfilling the classification criteria.
Specific target organ toxicity — repeated exposure	Based on the information available, the classification criteria have not been fulfilled.
Mutagenicity	Does not contain any relevant substances fulfilling the classification criteria.
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.

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SECTION 12: Ecological information

12.1 Toxicity

Range [%]	Substance
25 - <50	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.
10 - <20	Reaction product: bisphenol-F-(epichlorhydrin) Epoxy resin (number average molecular weight ≤ 700), CAS: 9003-36-5
	LC50, (72h), Algae: > 1000 mg/l.
	LC50, (96h), fish: 2,54 mg/l.
	EC50, (48h), Daphnia magna: 2,55 mg/l.
	BCF, 150.
10 - <20	1,6-Bis(2,3-epoxypropoxy)hexane, CAS: 16096-31-4
	LC50, (96h), Oncorhynchus mykiss: 30 mg/l.
	EC50, (48h), Daphnia magna: 47 mg/l.
	EC50, (24h), Daphnia magna: 67 mg/l.
	BCF, 3,57.

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.

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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.

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) 9 III

- Label

.. (- '7: F' @E



.. H8; F' @E

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

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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

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 determined
- CA Proposition 65	No components require labeling under California Proposition 65.
- 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 HAP-VOC	This product is named NTP - National Toxicology Program (contains crystalline silica). not applicable
Transport-regulations	DOT-Classification, ADR (2013); IMDG-Code (2013, 36. Amdt.); IATA-DGR (2013).
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.
- H412 Harmful to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H315 Causes skin irritation.

16.2 Ratings

HMIS Ratings

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

NFPA Ratings

1		TOP, FLAMMABILITY: 1 - Slight Hazard
2	1	LEFT, HEALTH: 2 - Moderate Hazard RIGHT, REACTIVITY: 1 - Slight Hazard
-		BOTTOM, SPECIAL NOTICE: -

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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 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.

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Modified position

SECTION 3 been added: Alkyl Ester (Ref.:722 43/00/2012.0028, Germany)
SECTION 3 been added: Quartz (< 10µm)
SECTION 3 deleted: Propylene carbonate
SECTION 2 been added: Does not contain any PBT or vPvB substances.
SECTION 2 been added: P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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.
SECTION 2 deleted: The product is classified as hazardous in accordance to OSHA Standard 29 CFR 1910.1200 (HCS 2012)
SECTION 3 been added: The quartz in this preparation is not available on foreseeable use.
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 8 deleted: Tightly fitting goggles.
SECTION 8 been added: Protect the environment by applying appropriate control measures to prevent or limit emissions.
SECTION 8 deleted: See SECTION 6+7.
SECTION 8 been added: safety glasses
SECTION 11 been added: Calculation method
SECTION 11 deleted: Sensitizing.
SECTION 11 been added: May cause an allergic skin reaction.
SECTION 11 been added: Does not contain any relevant substances fulfilling the classification criteria.
SECTION 11 been added: Based on the information available, the classification criteria have not been fulfilled.
SECTION 11 been added: Irritant
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.

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

1.1 Product identifier

PE1000+, Comp. 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

Acute Tox. 4: H302 Harmful if swallowed.
Skin Corr. 1B: H314 Causes severe skin burns and eye damage.
Skin Sens. 1: H317 May cause an allergic skin reaction.
Eye Dam. 1: H318 Causes serious eye damage.
Muta. 2: H341 Suspected of causing genetic defects.
Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects.

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2.2 Label elements

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

Hazard pictograms



Signal word

DANGER

Contains:

3-Aminomethyl-3,5,5-trimethylcyclohexylamine

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

Formaldehyde, oligomeric reaction products with 4,4'-isopropylidenediphenol and diethylenetriamine

Phenol

2,2'-Iminodiethylamine

4,4'-Isopropylidenediphenol

2,4,6-Tris(dimethylaminomethyl)phenol

Hazard statements

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H341 Suspected of causing genetic defects.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P201 Obtain special instructions before use.

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): 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.

P405 Store locked up.

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

2.3 Other hazards

Human health dangers

People who are allergic to amines 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.

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SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

Range [%]	Substance
20 - <35	3-Aminomethyl-3,5,5-trimethylcyclohexylamine CAS: 2855-13-2 GHS: Acute Tox. 4: H302 H312 - Skin Corr. 1B: H314 - Skin Sens. 1: H317 - Eye Dam. 1: H318 - Aquatic Chronic 3: H412
10 - <25	Formaldehyde, oligomeric reaction products with phenol and m-phenylenebis(methylamine) CAS: 57214-10-5 GHS: Skin Corr. 1C: H314 - Eye Dam. 1: H318 - Skin Sens. 1B: H317 - Aquatic Chronic 3: H412
1 - <20	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
1 - <20	Formaldehyde, oligomeric reaction products with 4,4'-isopropylidenediphenol and diethylenetriamine CAS: 77138-45-5 GHS: Skin Corr. 1B: H314 - Skin Sens. 1: H317 - Eye Dam. 1: H318
1 - <20	Benzyl alcohol CAS: 100-51-6 GHS: Acute Tox. 4: H302 H332 - Eye Irrit. 2: H319
1 - <10	2,4,6-Tris(dimethylaminomethyl)phenol CAS: 90-72-2 GHS: Skin Corr. 1C: H314 - Aquatic Chronic 3: H412 - Skin Sens. 1B: H317
1 - <10	Phenol CAS: 108-95-2 GHS: Muta. 2: H341 - Acute Tox. 3: H301 H311 H331 - STOT RE 2: H373 - Skin Corr. 1B: H314 - Eye Dam. 1: H318
1 - <10	2,2'-Iminodiethylamine CAS: 111-40-0 GHS: Acute Tox. 2: H330 - Acute Tox. 4: H302 H312 - Skin Corr. 1B: H314 - Skin Sens. 1: H317 - STOT SE 3: H335
1 - <5	Bis[(dimethylamino)methyl]phenol CAS: 71074-89-0 GHS: Skin Corr. 1B: H314
1 - <5	4,4'-Isopropylidenediphenol CAS: 80-05-7 GHS: STOT SE 3: H335 - Skin Sens. 1: H317 - Repr. 2: H361f - Eye Dam. 1: H318 - Aquatic Chronic 2: H411

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.

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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

In case of contact with eyes rinse thoroughly and immediately with plenty of water and seek medical advice.
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.

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 with 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.

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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.

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.
Protect from heat/overheating and from sun.
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

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (US)

Range [%]	Substance
1 - <20	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/m ³
1 - <10	Phenol
	CAS: 108-95-2, EINECS/ELINCS: 203-632-7, EU-INDEX: 604-001-00-2, ECB-Nr.: 01-2119471329-32-XXXX
	Long-term exposure: 5 ppm, 19 mg/m ³ , NIOSH, OSHA
	Short-term exposure (15-minute): 15,6 ppm, 60 mg/m ³

DNEL

Range [%]	Substance
1 - <10	Phenol, CAS: 108-95-2
	Industrial, dermal, Long-term - systemic effects: 1,23 mg/kg bw/d.
	Industrial, inhalative, Long-term - systemic effects: 8 mg/m ³ .

PNEC

Range [%]	Substance
1 - <10	Phenol, CAS: 108-95-2
	soil, 0,136 mg/kg dwt..
	sediment (seaater), 0,00915 mg/kg dwt..
	sediment (freshwater), 0,0915 mg/kg dwt..
	seawater, 0,0077 mg/l.
	freshwater, 0,077 mg/l.
1 - <10	2,4,6-Tris(dimethylaminomethyl)phenol, CAS: 90-72-2
	sewage treatment plants (STP), 0,2 mg/l.
	seawater, 0,0084 mg/l.
	freshwater, 0,084 mg/l.

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. Nitrile rubber, >480 min (EN 374).
Skin protection	Protective clothing. Avoid contact with eyes and skin. Do not inhale gases/vapours. 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.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	pasty
Color	various
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]	1,07
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

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.

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.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product
ATE-mix, dermal, Rabbit: >2000 mg/kg.
ATE-mix, oral, Rat: 1000 - <2000 mg/kg.

Range [%]	Substance
20 - <35	3-Aminomethyl-3,5,5-trimethylcyclohexylamine, CAS: 2855-13-2
	LD50, oral, Rat: 1030 mg/kg.
1 - <10	Phenol, CAS: 108-95-2
	LD50, dermal, Rat: 525-714 mg/kg.
	LD50, oral, Rat: 317 mg/kg.
	LC50, inhalative, Rat: 316 mg/kg.
1 - <5	4,4'-Isopropylidenediphenol, CAS: 80-05-7
	LD50, dermal, Rabbit: > 2000 mg/kg.
	LD50, oral, Rat: > 2000 mg/kg.
1 - <10	2,2'-Iminodiethylamine, CAS: 111-40-0
	LD50, dermal, Rabbit: 1090 mg/kg.
	LD50, oral, Rat: 1080 mg/kg.
	LC50, inhalative, Rat: > 0,07 - < 0,3 mg/l 4h.
1 - <20	m-Phenylenebis(methylamine), CAS: 1477-55-0
	LD50, dermal, Rabbit: 2000 mg/kg.
	LD50, oral, Rat: 930 mg/kg.
	LC50, inhalative, Rat: 3,89 mg/l/1h.
	LC50, inhalative, Rat: 2,4 mg/l/4h.
	LC50, inhalative, Rat (female): 0,8 mg/l/4h.
1 - <10	2,4,6-Tris(dimethylaminomethyl)phenol, CAS: 90-72-2
	LD50, dermal, Rat: >1 ml/kg (Lit.).
	LD50, oral, Rat: >2000 mg/kg (Lit.).

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

his mixture is placed on the market in a form, in which there can be no aerosol formation when used as intended. It may only be used for applications where aerosol formation is excluded. In accordance with Article 6 of the CLP Regulation 1272/2008 / EU, therefore, the classification and labeling for inhalation toxicity is not required. 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

12.1 Toxicity

Range [%]	Substance
1 - <10	Phenol, CAS: 108-95-2
	LC50, (96h), Oncorhynchus mykiss: 5 mg/l.
	EC50, (48h), Daphnia magna: 4,2 mg/l.
	IC50, (96h), Algae: 150 mg/l.
1 - <5	4,4'-Isopropylidenediphenol, CAS: 80-05-7
	LC50, (96h), fish: 7,5 mg/l.
	EC50, (48h), Daphnia magna: 3,9 - 10,2 mg/l.
	EC50, (96h), Algae: 2,5 - 3,1 mg/l.
1 - <10	2,2'-Iminodiethylamine, CAS: 111-40-0
	LC50, (96h), Leuciscus idus: 430 mg/L (IUCLID).
	EC50, (72h), Selenastrum capricornutum: 1164 mg/L (IUCLID).
	EC50, (48h), Daphnia magna: 17 mg/L (IUCLID).

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.

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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.

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 3259 Amines, solid, corrosive, n.o.s. (3-aminomethyl-3,5,5-trimethylcyclohexylamine, m-phenylenebis(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, m-phenylenebis(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, m-phenylenebis(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, m-phenylenebis(methylamine)) III

- Label



DOT Road Shipment Information (49 CFR)

UN/NA 3259 Amines, solid, corrosive, n.o.s. (3-aminomethyl-3,5,5-trimethylcyclohexylamine, m-phenylenebis(methylamine)) 8 III

- Label



- 49 CFR LQ

- TDGR LQ

14.3 Transport hazard class(es)

See SECTION 14.2 in accordance with UN shipping name

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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

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

No components require labeling under California Proposition 65.

- 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

not determined

National Toxicology Program - NTP

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 Phenol).

HAP-VOC

not applicable

Transport-regulations

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

Other Right to Know Laws

SECTION 16: Other information

16.1 Hazard statements (SECTION 3)

H411 Toxic to aquatic life with long lasting effects.
H361f Suspected of damaging fertility.
H335 May cause respiratory irritation.
H330 Fatal if inhaled.
H373 May cause damage to organs through prolonged or repeated exposure.
H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.
H341 Suspected of causing genetic defects.
H332 Harmful if inhaled.
H302 Harmful if swallowed.
H319 Causes serious eye irritation.
H302+H332 Harmful if swallowed or if inhaled.
H412 Harmful to aquatic life with long lasting effects.
H318 Causes serious eye damage.
H317 May cause an allergic skin reaction.
H314 Causes severe skin burns and eye damage.
H302+H312 Harmful if swallowed or in contact with skin.

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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;
 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;

16.3 Ratings

HMIS Ratings

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

NFPA Ratings

<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="background-color: #ff0000; color: white; text-align: center;">1</td> <td style="background-color: #0000ff; color: white; text-align: center;">2</td> <td style="background-color: #00ff00; color: white; text-align: center;">1</td> </tr> <tr> <td style="background-color: #ffffff; text-align: center;">-</td> <td colspan="2"></td> </tr> </table>	1	2	1	-			TOP, FLAMMABILITY: 1 - Slight Hazard LEFT, HEALTH: 2 - Moderate Hazard RIGHT, REACTIVITY: 1 - Slight Hazard BOTTOM, SPECIAL NOTICE: -
1	2	1					
-							

16.3 Other information

Classification procedure

Acute Tox. 4: H302 Harmful if swallowed. (Calculation method)
 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)
 Eye Dam. 1: H318 Causes serious eye damage. (Calculation method)
 Muta. 2: H341 Suspected of causing genetic defects. (Calculation method)
 Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects. (Calculation method)

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Modified position

SECTION 3 been added: 2,4,6-Tris(dimethylaminomethyl)phenol
SECTION 3 been added: Bis[(dimethylamino)methyl]phenol
SECTION 3 been added: 4,4'-Isopropylidenediphenol
SECTION 2 been added: 4,4'-Isopropylidenediphenol
SECTION 2 been added: 2,4,6-Tris(dimethylaminomethyl)phenol
SECTION 2 been added: H302 Harmful if swallowed.
SECTION 2 been added: Does not contain any PBT or vPvB substances.
SECTION 2 deleted: The product is classified as hazardous in accordance to OSHA Standard 29 CFR 1910.1200 (HCS 2012)
SECTION 2 deleted: H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.
SECTION 2 been added: Eye Dam. 1
SECTION 2 been added: H318 Causes serious eye damage.
SECTION 2 deleted: P260 Do not breathe vapours.
SECTION 2 deleted: Contains [x] % of components with unknown hazards to the aquatic environment.
SECTION 2 been added: The product is required to be labelled in accordance with GHS/CLP-Directives.
SECTION 2 deleted: P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
SECTION 2 deleted: P363 Wash contaminated clothing before reuse.
SECTION 2 been added: P405 Store locked up.
SECTION 2 deleted: P308+P313 IF exposed or concerned: Get medical advice/attention.
SECTION 2 deleted: [x] % of the mixture consists of ingredient(s) of unknown toxicity.
SECTION 4 been added: Risk of serious damage to eyes.
SECTION 4 been added: Shield unaffected eye.
SECTION 4 been added: In case of contact with eyes rinse thoroughly and immediately with plenty of water and seek medical advice.
SECTION 4 deleted: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
SECTION 5 been added: In the event of fire the following can be released:
SECTION 5 deleted: Risk of formation of toxic pyrolysis products.
SECTION 7 been added: Protect from heat/overheating and from sun.
SECTION 8 been added: Protect the environment by applying appropriate control measures to prevent or limit emissions.
SECTION 8 deleted: See SECTION 6+7.
SECTION 8 been added: Do not inhale gases/vapours.
SECTION 8 deleted: Do not inhale gases/vapours/aerosols.
SECTION 9 deleted:
SECTION 9 deleted:
SECTION 9 been added: various
SECTION 9 deleted: red
SECTION 11 deleted: The product was classified on the basis of the calculation procedure of the preparation directive.
SECTION 11 deleted: Sensitizing.
SECTION 11 been added: his mixture is placed on the market in a form, in which there can be no aerosol formation when used as intended. It may only be used for applications where aerosol formation is excluded. In accordance with Article 6 of the CLP Regulation 1272/2008 / EU, therefore, the classification and labeling for inhalation toxicity is not required.
SECTION 11 deleted: Product is caustic.

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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: Calculation method

SECTION 16 been added: Calculation method

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

SECTION 16 been added: Observe employment restrictions for mothers-to-be and nursing mothers.

SECTION 16 deleted:

SECTION 16 deleted: