

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 Product identifier 1.1 PURE 110+ Component A Relevant identified uses of the substance or mixture and uses advised against 1.2 1.2.1 Relevant uses Adhesive mortar for fastening to concrete elements A-Component (Resin) 1.2.2 Uses advised against None known. Details of the supplier of the safety data sheet 1.3 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 Chemtrec: 1-800-424-9300 (Within Continental USA); Advisory body Chemtrec: 703-527-3887 (Outside USA). **SECTION 2: Hazards identification** Classification of the substance or mixture 2.1 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 WARNING Signal word Contains: Reaction product: bisphenol-F-(epichlorhydrin) Epoxy resin (number average molecular weight \leq 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.



Brewster, NY 10509

| Date printed 04.09.2015, Revision 12.06.2015 | Version 02. Supersedes version: 01 | Page 2 / 10 |
|--|------------------------------------|-------------|
| 2.3 Other hazards | | |

Human health dangersPeople who are allergic to epoxide should avoid the use of the product.Environmental hazardsDoes not contain any PBT or vPvB substances.Other hazardsFurther hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

| 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 | |
| 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 | |
| Epoxy resin (number average molecular weight ≤ 700) | |
| CAS: 28064-14-4 | |
| GHS: Aquatic Chronic 4: H413 | |
| 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

| eral information | | |
|---|---|--|
| | Take off contaminated clothing and wash before reuse. | |
| alation | Ensure supply of fresh air. In the event of symptoms seek medical treatment. | |
| n contact | In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists. | |
| 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. | |
| estion | Supply with medical care. Rinse out mouth and give plenty of water to drink. | |
| Most important symptoms and effects, both acute and delayed | | |
| | Irritant effects | |
| s | t important symptom | |

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 mediafoam, dry powder, water spray jet, carbon dioxideExtinguishing media that must not
be usedFull water jet



| Date | printed 04.09.2015, Revision 12.06.2015 | Version 02. Supersedes version: 01 Page 3 / 1 |
|----------------------------------|---|---|
| 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. |
| SEC | TION 6: Accidental release measu | res |
| 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 contain | iment 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 | |
| 0.4 | | See SECTION 8+13 |
| SEC | TION 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, inclu | uding any incompatibilities |
| Keep only in original container. | | |
| | | 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 |
| | | |



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

| 21122 | |
|---|---|
| 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/m ³ . |
| | Industrial, inhalative, Acute - systemic effects: 12,25 mg/m ³ . |
| 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/m ³ . |
| | 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/m ³ . |
| PNEC | |
| Range [%] | Substance |
| 10 - <30 | Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight ≤ 700), CAS: 25068- 38-6 |
| | soil, 0,196 mg/l. |
| | sediment (seaater), 0,0996 mg/l. |

| | 38-6 |
|----------|--|
| | 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. |



Brewster, NY 10509

| ite | Version 02. Supersedes version: 01 Page 5 / 7 | |
|------------------------|---|---|
| 2 Exposure controls | | |
| | Additional advice on system design | Ensure adequate ventilation on workstation. |
| Hand protection | | safety glasses |
| | | The details concerned are recommendations. Please contact the glove supplier for further information. Nitrile rubber, >480 min (EN 374). |
| | Skin protection | Protective clothing. |
| Respiratory protection | 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

| internation on bable physical and | |
|---|---------------------------|
| 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] | 1,33 (23°C / 73,4°F) |
| Bulk density [kg/m³] | not applicable |
| Solubility in water | insoluble |
| Partition coefficient [n-octanol/water] | not determined |
| Viscosity | not determined |
| Relative vapour density determined in air | not determined |
| Evaporation speed | not determined |
| Melting point [°C] | not determined |
| Autoignition temperature [°C] | not determined |
| Decomposition temperature [°C] | not determined |
| Other information | No information available. |

SECTION 10: Stability and reactivity

10.1 Reactivity

9.2



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

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. |

| 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 | |
| | Tavia da sia data |

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.



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: 25 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. |



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
- Label

- ADR LQ

- ADR 1.1.3.6 (8.6)

Inland navigation (ADN)

- Classification Code

- Label



M7

Transport category (tunnel restriction code) 3 (E)

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

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



F-A, S-F

5 kg

MARINE POLLUTANT

Marine transport in accordance with IMDG

- EMS

- Label

- IMDG LQ

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

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





Brewster, NY 10509

| Date printed 04.09.2015, Revision 12.06.2015 | Version 02. Supersedes version: 01 Page 9 / 1 |
|--|--|
| 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). |

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;



| Brewst | er, N | Y 10 | 509 |
|--------|-------|------|-----|
|--------|-------|------|-----|

| e printed 04.09.2015, Revision 12.0 | 6.2015 | Version 02. Supersedes version: 01 | Page 10 / |
|-------------------------------------|--|---|----------------|
| TLV®/TWA TLV®STEL VOC = Vola | perfund Amendments and Reauthorization = Threshold limit value – time-weighted a = Threshold limit value – short-time expon tile Organic Compounds; Persistent and very Bioaccumulative; | average; | |
| 3 Ratings | | | |
| IS Ratings | | | |
| EALTH | 2 - Moderate Hazard | | |
| | 1 - Slight Hazard | | |
| | 1 - Slight Hazard | | |
| ERSONAL PROTECTION | X - Personal protection rating to | be supplied by user depending on use condit | ions |
| PA Ratings | | t Hozord | |
| 1 | TOP, FLAMMABILITY: 1 - Sligh | lazard RIGHT, REACTIVITY: 1 - Slight Hazard | 4 |
| - | BOTTOM, SPECIAL NOTICE: - | | 1 |
| 4 Other information | | | |
| Classification procedure | Skin Irrit. 2: H315 Causes skin i | rritation (Calculation method) | |
| | Eye Irrit. 2: H319 Causes seriou Skin Sens. 1: H317 May cause a | s eye irritation. (Calculation method) an allergic skin reaction. (Calculation method) o aquatic life with long lasting effects. (Calcula | |
| Modified position | SECTION 3 been added: Epoxy | resin (number average molecular weight ≤ 70 | 00) |
| | SECTION 2 been added: P302+ | P352 IF ON SKIN: Wash with plenty of water | /soap. |
| | SECTION 2 deleted: P391 Colle | ect spillage. | |
| | SECTION 2 been added: The pr Directives. | roduct is required to be labelled in accordance | e with GHS/C |
| | SECTION 2 been added: Does | not contain any PBT or vPvB substances. | |
| | SECTION 4 deleted: Change so | aked clothing immediately. | |
| | SECTION 4 been added: Take of | off contaminated clothing and wash before reu | ise. |
| | SECTION 5 deleted: Risk of for | mation of toxic pyrolysis products. | |
| | SECTION 5 been added: In the | event of fire the following can be released: | |
| | SECTION 7 deleted: Keep away | r from all sources of ignition - Refrain from sm | oking. |
| | SECTION 7 deleted: Take preca | autionary measures against static discharges. | |
| | SECTION 8 been added: Protect to prevent or limit emissions. | t the environment by applying appropriate cor | ntrol measure |
| | SECTION 8 deleted: Tightly fittir | ng goggles. | |
| | SECTION 8 deleted: See SECT | ION 6+7. | |
| | SECTION 8 been added: safety | glasses | |
| | SECTION 11 deleted: Irritant | | |
| | SECTION 11 deleted: Irritant | | |
| | SECTION 11 deleted: Sensitizin | ıg. | |
| | | uct was classified on the basis of the calculation | on procedure |
| | | safety assessments for substances in this mi | ixture were no |
| | SECTION 16 been added: Obse | erve employment restrictions for young people | ·. |
| | SECTION 16 been added: Calci | | |



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 Product identifier 1.1 PURE 110+ 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. Details of the supplier of the safety data sheet 1.3 Powers Fasteners, Inc. Company 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.



| 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 la | abelled in accordance with GHS-Directives. | |
| Hazard pictograms | | A CONTRACTOR | |
| | | | |
| Signal word | DANGER | | |
| Contains: | Formaldehyde, oligomeric read | ction products with phenol and m-phenylenebis(n | nethylamine) |
| | m-Phenylenebis(methylamine) | | |
| | Phenol | | |
| Hazard statements | H314 Causes severe skin burr H317 May cause an allergic sk H341 Suspected of causing ge | in reaction. | |
| Precautionary statements | P301+P330+P331 IF SWALLO P303+P361+P353 IF ON SKIN Rinse skin with water/shower. P305+P351+P338 IF IN EYES contact lenses, if present and P310 Immediately call a POIS P363 Wash contaminated clot | protective clothing/eye protection/face protection. DWED: rinse mouth. Do NOT induce vomiting. I (or hair): Take off immediately all contaminated : Rinse cautiously with water for several minutes easy to do. Continue rinsing. ON CENTER/doctor. | clothing. . Remove |

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. |



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 | | |
|-----|--|---|--|
| | 20 - 30 | Formaldehyde, olic | omeric reaction products with phenol and m-phenylenebis(methylamine) |
| | | CAS: 57214-10-5 | |
| | | GHS/ Skin Corr. 1E | 3: H314 - Skin Sens. 1: H317 |
| | 5 - <15 | m-Phenylenebis(m | ethylamine) |
| | | CAS: 1477-55-0 | |
| | | GHS: Acute Tox. 4 H317 - Aquatic Chi | : H302 - Acute Tox. 4: H332 - Skin Corr. 1B: H314 - Eye Dam. 1: H318 - Skin Sens. 1: ronic 3: H412 |
| | 3 - <10 | Phenol | |
| | | CAS: 108-95-2 | |
| | | GHS: Muta. 2: H34 Corr. 1B: H314 - E | 1 - Acute Tox. 3: H301 - Acute Tox. 3: H311 - Acute Tox. 3: H331 - STOT RE 2: H373 - Skin ye Dam. 1: H318 |
| | 1 - <5 | 2,4,6-Tris(dimethyl | aminomethyl)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: Comment on component parts | | |
| | | | H372 |
| | | | 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. |
| SEC | TION 4: First aid | measures | |
| 4.1 | Description of fi | rst aid measures | |
| | General information | on | 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. |

Most important symptoms and effects, both acute and delayed 4.2

Product is caustic. Allergic reactions Risk of serious damage to eyes.

Seek medical advice immediately.

Rinse out mouth and give plenty of water to drink.

Treat symptomatically.



| Date | printed 04.09.2015, Revision 04.09.2015 | 5 Version 02. Supersedes version: 01 Page 4 / 1 |
|-----------|---|--|
| SEC | TION 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 |
| .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). |
| .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. |
| SEC | TION 6: Accidental release measu | ires |
| .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. |
| .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 contain | iment 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 |
| SEC | TION 7: Handling and storage | |
| '.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 eve wash stations should be provided |

Showers and eye wash stations should be provided.



| Date | e printed 04.09.2015, Revision 04.09.2015 | | Version 02 | Supersedes version: 01 | Page 5 / 12 |
|------|---|--|---------------|------------------------|-------------|
| 7.2 | Conditions for safe storage, inclu | iding any incompatibilities | | | |
| | | Keep only in original container. Prevent penetration into the ground. | | | |
| | | Do not store together with food and ani | mal food/die | et. | |
| | | Keep container in a well-ventilated place Keep container tightly closed. Keep in a cool place. Store in a dry pla Protect from atmospheric moisture and Recommended storage temperature: 5 | ce. water. | 7°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)

| Range [%] | Substance | |
|-----------|--|--|
| 5 - <15 | 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/m ³ | |
| 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/m ³ , NIOSH, OSHA | |
| | Short-term exposure (15-minute): 15.6 ppm, 60 mg/m ³ | |

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. |



| | ewster, NY 10509 | | | |
|------|---|---------------------------|------------------------------------|-------------|
| Date | printed 04.09.2015, Revision 04.09.2015 | | Version 02. Supersedes version: 01 | Page 6 / 12 |
| SEC | TION 9: Physical and chemical pro | perties | | |
| 9.1 | Information on basic physical and | I chemical properties | | |
| | Form | pasty | | |
| | Color | red | | |
| | 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 | 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. | | |
| SEC | TION 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



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.

Safety Data Sheet (SDS) according to OSHA-GHS (29 CFR 1910.1200 HCS 2012) (US) PURE 110+ Component B



Powers Fasteners, Inc.

Brewster, NY 10509

Date printed 04.09.2015, Revision 04.09.2015

Version 02. Supersedes version: 01 Page 8 / 12

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

| Acute toxicity | | |
|--|----------------------|---|
| | Product | |
| | ATE-mix, inhalativ (| mist), > 5 mg/l (4 h). |
| | ATE-mix, dermal, R | at: > 2000 mg/kg. |
| | ATE-mix, oral, Rat: | > 2000 mg/kg. |
| Range [%] | Substance | |
| 1 - <5 | Benzyl alcohol, CAS | S: 100-51-6 |
| | LD50, dermal, Rabb | it: 2000 mg/kg bw (RTECS). |
| | LD50, oral, Rat: 123 | 30 mg/kg bw (IUCLID). |
| | LC50, inhalative, Ra | at: 4,178 mg/l/4h (OECD TG 403). |
| | LC50, inhalative, Ra | at: 8,8 mg/l (4h) (IUCLID). |
| 1 - <5 | 2,4,6-Tris(dimethyla | minomethyl)phenol, CAS: 90-72-2 |
| | LD50, dermal, Rat: | 1280 mg/kg. |
| | LD50, oral, Rat: 120 | 10 mg/kg. |
| 3 - <10 | Phenol, CAS: 108-9 | 5-2 |
| | LD50, dermal, Rat: | 660 mg/kg (OECD 402). |
| | LD50, oral, Rat: 317 | ' mg/kg (RTECS). |
| | LC50, inhalative, Ra | at: 0,316 mg/l (RTECS). |
| 20 - 30 | Formaldehyde, oligo | omeric reaction products with phenol and m-phenylenebis(methylamine), CAS: 57214-10-5 |
| | LD50, oral, Rat: > 5 | 000 mg/kg. |
| 5 - <15 | m-Phenylenebis(me | thylamine), CAS: 1477-55-0 |
| | LD50, dermal, Rabb | it: 2000 mg/kg. |
| | LD50, oral, Rat: 930 |) mg/kg. |
| | LC50, inhalative, Ra | at (female): 0,8 mg/l/4h. |
| | LC50, inhalative, Ra | at: 2,4 mg/l/4h. |
| | LC50, inhalative, Ra | at: 3,89 mg/l/1h. |
| Serious eye dama | ge/irritation | Toxicological data of complete product are not available. Risk of serious damage to eyes. Calculation method |
| Skin corrosion/irr | itation | Toxicological data of complete product are not available. Product is caustic. Calculation method |
| Respiratory or ski | n sensitisation | Toxicological data of complete product are not available. May cause an allergic skin reaction. Calculation method |
| Specific target org single exposure | gan toxicity — | Does not contain any relevant substances fulfilling the classification criteria. |
| Specific target org | | Toxicological data of complete product are not available. Based on the information available, the classification criteria have not been fulfilled. |
| Mutagenicity | | Toxicological data of complete product are not available. Suspected of causing genetic defects. Calculation method |
| Reproduction tox | icity | 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 |

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.



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 | 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.

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. |



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 | UN 3259 Amines, solid, corrosive, n.o.s. (Phenol, m-Phenylenebis(methylamine)) 8 II |
| | - Classification Code | C8 |
| | - Label | |
| | - ADR LQ | 1 kg |
| | - 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 |
| | - Classification Code | C8 |
| | - Label | |
| | Marine transport in accordance with IMDG | UN 3259 Amines, solid, corrosive, n.o.s. (Phenol, m-Phenylenebis(methylamine)) 8 II |
| | - EMS | F-A, S-B |
| | - Label | Series Se |
| | - IMDG LQ | 1 kg |
| | Air transport in accordance with IATA - Label | UN 3259 Amines, solid, corrosive, n.o.s. (Phenol, m-Phenylenebis(methylamine)) 8 II |
| | DOT Road Shipment Information (49 C - Label | CFR) UN/NA 3259 Amines, solid, corrosive, n.o.s. (Phenol, m-Phenylenebis(methylamine)) 8 II |
| 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



/ 12

Powers Fasteners, Inc.

| | Date printed 04.09.2015, Revision 04.09.2015 | Version 02. Supersedes version: 01 | Page 11 |
|--|--|------------------------------------|---------|
|--|--|------------------------------------|---------|

SECTION 15: Regulatory information

| US Regulations | |
|--|--|
| 60 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. |
| - 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 | not determined |
| International Agency for Research on Cancer IARC | IARC: Contains one substance Group 3: Not classifiable as to carcinogenicity to humans. |
| National Toxicology Program - NTP | 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 | 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.
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 | |
|---------------------|---|
| HEALTH | 3 3 - Severe Hazard |
| FLAMMABILITY | 1 1 - Slight Hazard |
| REACTIVITY | 1 - Slight Hazard |
| PERSONAL PROTECTION | X X - Personal protection rating to be supplied by user depending on use conditions |

NFPA Ratings



TOP, FLAMMABILITY: 1 - Slight Hazard LEFT, HEALTH: 3 - Severe Hazard RIGHT, REACTIVITY: 1 - Slight Hazard BOTTOM, SPECIAL NOTICE: -



| 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: | pu. |
| | 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: | |
| | EQUIT 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

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

Classification procedure

none