

Powers Fasteners, Inc.

Brewster, NY 10509

Date printed 18.12.2013, Revision 11.04.2013

Version 02. Supersedes version: 01

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

Product identifier	AC100+ GOLD, Comp. A
Relevant identified uses of the substance or mixture and uses advised against	Adhesive mortar for fastening elements A-Component (Resin)
Identified use	none
Company	Powers Fasteners, Inc. 2 Powers Lane Brewster, NY 10509 / USA Phone +1 800-524-3244 Fax +1 877-871-1965
Address enquiries to	
Emergency phone Advisory body	CHEMTREC: +1 703-527-3887 (24h) (Emergency Contact Information Only) USA: 800-424-9300

SECTION 2: Hazards identification**Emergency Overview**

Appearance, Odor: pasty, light beige, characteristic

WARNING

MAY CAUSE ALLERGIC SKIN REACTION.
MAY CAUSE RESPIRATORY TRACT IRRITATION.

OSHA Regulatory Status This product is classified as hazardous in accordance to OSHA Standard 29 CFR 1910.1200.

Potential health effects Persons already sensitised to methacrylates may develop allergic reactions when using this product.

Potential environmental effects Does not contain any PBT or vPvB substances.

SECTION 3: Composition / Information on ingredients

The product is a mixture.

Range [%]	Substance
10 - <20	Ethylene dimethacrylate CAS: 97-90-5
1 - <10	Methacrylic acid, monoester with Propan-1,2-diole CAS: 27813-02-1
0,1 - <1	1,1'-(p-Tolylimino)dipropan-2-ol CAS: 38668-48-3

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

SECTION 4: First aid measures

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

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SECTION 5: Fire-fighting measures

Suitable extinguishing media	Carbon dioxide. Dry powder. Water spray jet.
Extinguishing media that must not be used	Full water jet Foam.
Special exposure hazards arising from the substance or preparation itself or combustion products	Unknown risk of formation of toxic pyrolysis products. Carbon monoxide (CO)
Special protective equipment for firefighters	Do not inhale explosion and/or combustion gases. Use self-contained breathing apparatus.
Additional information	Fire residues must be disposed of in accordance within the local regulations.

SECTION 6: Accidental release measures

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

SECTION 7: Handling and storage

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

SECTION 8: Exposure controls / personal protection

Additional advice on system design	Ensure adequate ventilation on workstation.
Ingredients with occupational exposure limits to be monitored (US)	not applicable
Respiratory protection	If ventilation insufficient, wear respiratory protection. Short term: filter apparatus, combination filter A-P2.
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. Nitrile rubber, >480 min (EN 374).
Eye protection	Tightly fitting goggles.
Skin protection	Protective clothing.
General protective measures	Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier.
Hygiene measures	Do not eat, drink, smoke or take drugs at work. Wash hands before breaks and after work. Use barrier skin cream.
Delimitation and monitoring of the environmental exposition	See SECTION 6+7.

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SECTION 9: Physical and chemical properties

Form	pasty
Color	light beige
Odor	characteristic
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	not determined
Flash point [°C]	not applicable
Flammability [°C]	not determined
Lower explosion limit	not determined
Upper explosion limit	not determined
Oxidizing properties	not determined
Vapour pressure/gas pressure [kPa]	not determined
Density [g/ml]	1,52 - 1,68 (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

SECTION 10: Stability and reactivity

Reactivity	No dangerous reactions known if used as directed.
Chemical stability	The product is stable under standard conditions.
Possibility of hazardous reactions	Reactions with oxidizing agents.
Conditions to avoid	See SECTION 7.2.
Incompatible materials	Strong oxidizing agent.
Hazardous decomposition products	No hazardous decomposition products known.

SECTION 11: Toxicological information**Information on toxicological effects****Acute toxicity**

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

Range [%]	Substance
10 - <20	Ethylene dimethacrylate, CAS: 97-90-5 LD50, oral, Rat: 3300 mg/kg (RTECS).
1 - <10	Methacrylic acid, monoester with Propan-1,2-diole, CAS: 27813-02-1 LD50, dermal, Rabbit: > 5000 mg/kg (IUCLID). LD50, oral, Rat: > 4000 mg/kg (IUCLID).
0,1 - <1	1,1'-(p-Tolylimino)dipropan-2-ol, CAS: 38668-48-3 LD50, oral, Rat: 27,5 mg/kg.

Serious eye damage/irritation	not determined
Skin corrosion/irritation	not determined
Respiratory or skin sensitisation	Sensitizing.
Mutagenicity	There is no evidence of any mutagenic effects.
Reproduction toxicity	There is no evidence of any reproductive toxicity effects.
Carcinogenicity	There is no evidence of any carcinogenic effects.
General remarks	The product was classified on the basis of the calculation procedure of the preparation directive. Toxicological data of complete product are not available.

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SECTION 12: Ecological information**Toxicity**

Range [%]	Substance
10 - <20	Ethylene dimethacrylate, CAS: 97-90-5
	LC50, (96h), Danio rerio: 15,95 mg/l (OECD 203).
	EC50, (3h), Pseudomonas putida: 570 mg/l (OECD 209).
1 - <10	Methacrylic acid, monoester with Propan-1,2-diole, CAS: 27813-02-1
	EC10, (16h), Pseudomonas putida: 1140 mg/l (IUCLID).
	LC50, (48h), Leuciscus idus: 493 mg/L (IUCLID).
0,1 - <1	1,1'-(p-Tolylimino)dipropan-2-ol, CAS: 38668-48-3
	LC50, (96h), fish: 17 mg/l.
	EC50, (48h), Daphnia magna: 28,8 mg/l.

Behaviour in environment compartments not determined**Behaviour in sewage plant** not determined**Biological degradability** not determined**COD** not determined**BOD 5** not determined

Other adverse effects Do not discharge product unmonitored into the environment.
 No classification on the basis of the calculation procedure of the preparation directive.
 Ecological data of complete product are not available.
 The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

SECTION 13: Disposal considerations

Product	Coordinate disposal with the disposal contractor/authorities if necessary.
Contaminated packaging	Untampered packaging may be taken for recycling. Packaging that cannot be cleaned should be disposed of as for product.
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 information

Transport by land according to ADR/RID	NO DANGEROUS GOODS
Inland navigation (ADN)	NO DANGEROUS GOODS
Marine transport in accordance with IMDG	NOT CLASSIFIED AS "DANGEROUS GOODS"
Air transport in accordance with IATA	NOT CLASSIFIED AS "DANGEROUS GOODS"
DOT Road Shipment Information (49 CFR)	NOT CLASSIFIED AS "DANGEROUS GOODS"

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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 does not contain any ingredients regulated under this list.

- SARA, 311

This product does not contain any ingredients regulated under this list.

- SARA, 313

This product does not contain any ingredients regulated under this list.

- 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

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

HAP-VOC

0 %

Transport-regulations

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

Other Right to Know Laws**EC Regulations**

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

Hazard pictograms**Signal word**

WARNING

Contains:

Ethylene dimethacrylate EINECS: 202-617-2

Methacrylic acid, monoester with Propan-1,2-diole EINECS: 248-666-3

Hazard statements

H335 May cause respiratory irritation.

H317 May cause an allergic skin reaction.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P261 Avoid breathing vapours.

P280 Wear protective gloves.

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

P363 Wash contaminated clothing before reuse.

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

Labelling**Hazard symbols**

Irritant

R-phrases

R 37: Irritating to respiratory system.

R 43: May cause sensitisation by skin contact.

S-phrases

S 2: Keep out of the reach of children.

S 24/25: Avoid contact with skin and eyes.

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

S 37: Wear suitable gloves.

S 46: If swallowed, seek medical advice immediately and show this container or label.

Special labelling

not applicable

Emergency Overview

WARNING

MAY CAUSE ALLERGIC SKIN REACTION.

MAY CAUSE RESPIRATORY TRACT IRRITATION.

AC100+ GOLD, Comp. A

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SECTION 16: Other information

Observe employment restrictions for people

Observe employment restrictions for young people.
Observe employment restrictions for mothers-to-be and nursing mothers.

HMIS Ratings

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

NFPA Ratings

2
2 1
-

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

Modified position

none

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

Product identifier **AC100+ GOLD, Comp. B**

Relevant identified uses of the substance or mixture and uses advised against Adhesive mortar for fastening elements" B-Component (Hardener)

Identified use none

Company Powers Fasteners, Inc.
 2 Powers Lane
 Brewster, NY 10509 / USA
 Phone +1 800-524-3244
 Fax +1 877-871-1965

Address enquiries to

Emergency phone Advisory body CHEMTREC: +1 703-527-3887 (24h) (Emergency Contact Information Only)
 USA: 800-424-9300

SECTION 2: Hazards identification
Emergency Overview

Appearance, Odor: pasty, black, characteristic

WARNING
 CAUSES EYE IRRITATION.
 MAY CAUSE ALLERGIC SKIN REACTION.

OSHA Regulatory Status This product is classified as hazardous in accordance to OSHA Standard 29 CFR 1910.1200.

Potential health effects

Potential environmental effects Does not contain any PBT or vPvB substances.

SECTION 3: Composition / Information on ingredients

The product is a mixture.

Range [%]	Substance
10 - <20	Dibenzoyl peroxide CAS: 94-36-0
< 5	Reaction mass of Diethylene glycole dibenzoate, Dipropylene glycole dibenzoate and Triethylene glycol dibenzoate
< 5	2-Ethylhexyl benzoate CAS: 5444-75-7

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

SECTION 4: First aid measures

Description of first aid measures Change soaked clothing immediately.

Inhalation Ensure supply of fresh air.
 In the event of symptoms seek for medical treatment.

Skin contact In case of contact with skin wash off immediately with soap and water.
 Consult a doctor if skin irritation persists.

Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 If eye irritation persists: Get medical advice/attention.

Ingestion Supply with medical care.
 Rinse out mouth and give plenty of water to drink.

Indication of any immediate medical attention and special treatment needed Treat symptomatically.

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SECTION 5: Fire-fighting measures

Suitable extinguishing media	Carbon dioxide. Dry powder. Water spray jet.
Extinguishing media that must not be used	Full water jet Foam.
Special exposure hazards arising from the substance or preparation itself or combustion products	Unknown risk of formation of toxic pyrolysis products. Carbon monoxide (CO)
Special protective equipment for firefighters	Do not inhale explosion and/or combustion gases. Use self-contained breathing apparatus.
Additional information	Fire residues must be disposed of in accordance within the local regulations.

SECTION 6: Accidental release measures

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

SECTION 7: Handling and storage

Precautions for safe handling	Use only in well-ventilated areas.
Advice on protection against fire and explosion	Keep away from all sources of ignition - Refrain from smoking.
Requirements for storage rooms and vessels	Keep only in original container.
Advice on storage compatibility	Do not store together with food and animal food/diet.
Further information on storage conditions	Keep container in a well-ventilated place. Keep container tightly closed. Keep in a cool place. Store in a dry place. Store in a dark place. Protect from atmospheric moisture and water. Recommended storage temperature: 5-25 °C (41-77 °F).

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SECTION 8: Exposure controls / personal protection

Additional advice on system design Ensure adequate ventilation on workstation.

Ingredients with occupational exposure limits to be monitored (US)

Range [%]	Substance
10 - <20	Dibenzoyl peroxide CAS: 94-36-0, EINECS/ELINCS: 202-327-6, EU-INDEX: 617-008-00-0 Long-term exposure: 5 mg/m ³ , OSHA, NIOSH
1 - <20	Glycerol CAS: 56-81-5, EINECS/ELINCS: 200-289-5 Long-term exposure: 15 mg/m ³ , (mist) total dust

Respiratory protection If ventilation insufficient, wear respiratory protection.
Short term: filter apparatus, combination filter A-P2.

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

In splash contact
Nitrile rubber, >120 min (EN 374).

In full contact:
Butyl rubber, >480 min (EN 374).

Eye protection Tightly fitting goggles.

Skin protection Protective clothing.

General protective measures Avoid contact with eyes and skin.
Do not inhale gases/vapours/aerosols.
Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier.

Hygiene measures Do not eat, drink, smoke or take drugs at work.
Wash hands before breaks and after work.
Use barrier skin cream.

Delimitation and monitoring of the environmental exposition See SECTION 6+7.

SECTION 9: Physical and chemical properties

Form	pasty
Color	black
Odor	characteristic
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	not determined
Flash point [°C]	116
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]	not determined
Bulk density [kg/m³]	not applicable
Solubility in water	insoluble
Partition coefficient [n-octanol/water]	not determined
Viscosity	not determined
Relative vapour density determined in air	not determined
Evaporation speed	not determined
Melting point [°C]	not determined
Autoignition temperature [°C]	not determined
Decomposition temperature [°C]	not determined

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SECTION 10: Stability and reactivity

Reactivity	See SECTION 10.3.
Chemical stability	Stable under normal ambient conditions (ambient temperature).
Possibility of hazardous reactions	Reactions with oxidizing agents.
Conditions to avoid	Strong heating. See SECTION 7.2.
Incompatible materials	Strong oxidizing agent.
Hazardous decomposition products	No hazardous decomposition products known.

SECTION 11: Toxicological information**Information on toxicological effects****Acute toxicity**

Range [%]	Substance
10 - <20	Dibenzoyl peroxide, CAS: 94-36-0
	LD50, oral, Rat: 7710 mg/kg (HSDB).
	LC50, inhalative, Rat: > 24,3 mg/l 4 h.

Serious eye damage/irritation	Slight irritant effect - does not require labelling.
Skin corrosion/irritation	not determined
Respiratory or skin sensitisation	Sensitizing.
Mutagenicity	There is no evidence of any mutagenic effects.
Reproduction toxicity	There is no evidence of any reproductive toxicity effects.
Carcinogenicity	There is no evidence of any carcinogenic effects.
General remarks	The product was classified on the basis of the calculation procedure of the preparation directive. The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

SECTION 12: Ecological information**Toxicity**

Range [%]	Substance
10 - <20	Dibenzoyl peroxide, CAS: 94-36-0
	LC50, (96h), fish: 2 mg/l.
	EC50, (48h), Daphnia magna: 2,91 mg/l.

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	not determined
COD	not determined
BOD 5	not determined
Other adverse effects	Do not discharge product unmonitored into the environment. No classification on the basis of the calculation procedure of the preparation directive. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

SECTION 13: Disposal considerations

Product	Coordinate disposal with the disposal contractor/authorities if necessary.
Contaminated packaging	Untampered packaging may be taken for recycling. Packaging that cannot be cleaned should be disposed of as for product.
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.

AC100+ GOLD, Comp. B

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SECTION 14: Transport information

Transport by land according to ADR/RID NO DANGEROUS GOODS

Inland navigation (ADN) NO DANGEROUS GOODS

Marine transport in accordance with IMDG NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

DOT Road Shipment Information (49 CFR) NOT CLASSIFIED AS "DANGEROUS GOODS"

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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 does not contain any ingredients regulated under this list.

- SARA, 311

This product does not contain any ingredients regulated under this list.

- SARA, 313

This product contain one ingredient regulated under this list.
(CAS 94-36-0)

- 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

A2 - Suspected Human Carcinogen

(CAS 14808-60-7)

A4: Not classifiable as a human carcinogen.

(CAS 94-36-0)

International Agency for Research on Cancer IARC

IARC: yes - contains crystalline silica.

IARC: Gruppe 3: Not classifiable as to its carcinogenicity to humans.

(CAS 94-36-0)

National Toxicology Program - NTP

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

HAP-VOC

0 %

Transport-regulations

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

Other Right to Know Laws**EC Regulations**

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

Hazard pictograms**Signal word**

WARNING

Contains:

Dibenzoyl peroxide EINECS: 202-327-6

Hazard statements

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P261 Avoid breathing vapours.

P280 Wear protective gloves/eye protection/face protection.

P363 Wash contaminated clothing before reuse.

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

Labelling

The product is classified and required to be labelled in accordance with EC-Directives

Hazard symbols

Irritant

R-phrases

R 43: May cause sensitisation by skin contact.

S-phrases

S 2: Keep out of the reach of children.

S 3/7: Keep container tightly closed in a cool place.

S 14.7: Keep away from dirt, rust, chemicals, alkalis and acids as well as heavy metal salts and amines.

S 24/25: Avoid contact with skin and eyes.

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

S 46: If swallowed, seek medical advice immediately and show this container or label.

Special labelling

not applicable

WARNING

Emergency Overview

CAUSES EYE IRRITATION.

MAY CAUSE ALLERGIC SKIN REACTION.

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SECTION 16: Other information

Observe employment restrictions for people

Observe employment restrictions for young people.
 Observe employment restrictions for mothers-to-be and nursing mothers.

HMIS Ratings

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

NFPA Ratings

2	
2	1
-	

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

Modified position

none