



Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 06/08/2015

Reviewed on 06/08/2015

* 1 Identification

- **Product identifier**
- **Trade name:** Eagle Roofing Products Concrete Roof Tile
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Product description** Concrete Roof Tiles
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Eagle Roofing Products Florida, LLC
1575 E. C R 470
Sumterville, FL. 33585
Phone number for additional information: 877-300-3245 / Fax 877-300-3248
- **Manufacturing Facilities:**
2352 N. Locust Avenue, Rialto, CA 92377 - 800-400-3245
4602 W. Elwood, Phoenix, AZ 85043 - 800-346-5260
4555 McKinley Ave, Stockton, CA 95206 - 800-998-3245
- **Emergency telephone number:** 909-355-7000

* 2 Hazard(s) identification

- **Classification of the substance or mixture**
The product does not need classification according to OSHA HazCom Standard 29 CFR paragraph (d) of §1910.1200(g) and GHS Rev 03.
- **Additional information:**
Hazards exempt when in bonded form or when it cannot be released due to cutting, grinding, heating, etc.

If tiles are cut, ground or broken from their finished state and dust forms, dust forms and is respirable this product: may cause cancer, causes damage to the lungs through prolonged or repeated exposure. Route of exposure: Inhalative; is toxic to aquatic life with long lasting effects; may cause an allergic skin reaction; may cause respiratory irritation; and causes eye irritation.

An SDS is not required for tapes, films, or extruded, molded or coated products containing listed hazardous substances in bonded form except when these substances can be released in the worksite under normal conditions of work or in reasonably foreseeable emergencies resulting from workplace operations.

- **Label elements**
- **GHS label elements** Non-Regulated Material
- **Hazard pictograms** Non-Regulated Material
- **Signal word** Non-Regulated Material
- **Hazard statements** Non-Regulated Material
- **Precautionary statements**
Avoid breathing dust/fume/gas/mist/vapors/spray.
Wear protective gloves/protective clothing/eye protection/face protection.
Wash thoroughly after handling.
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Get medical advice/attention if you feel unwell.
- **Unknown acute toxicity:**
36.1 percent of the mixture consists of ingredient(s) of unknown toxicity.

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- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**

HEALTH	0	Health = 0
FIRE	0	Fire = 0
REACTIVITY	0	Reactivity = 0

- **Hazard(s) not otherwise classified (HNOC):**

Hazard exempt when in bonded form or when it cannot be released due to cutting, grinding, heating, etc.

* 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**

- **Description:**

Mixture of substances listed below with nonhazardous additions.

Hazard exempt when tiles are in bonded form or when it cannot be released due to cutting, grinding, heating, etc.

- **Dangerous Components:**

CAS: 14808-60-7 RTECS: VV 7330000	Quartz (SiO ₂) ⚠ Carc. 1A, H350; STOT RE 1, H372; ⚠ Acute Tox. 4, H332; STOT SE 3, H335; Eye Irrit. 2B, H320	65-80%
CAS: 65997-15-1 RTECS: VV 8770000	Cement, portland, chemicals	15-35%
CAS: 1317-65-3	Calcium Carbonate ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	≤2.5%
CAS: 1309-37-1 RTECS: NO 7400000	Ferric oxide ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	≤ 2.5%
CAS: 1344-28-1 RTECS: BD 1200000	Aluminium Oxide ⚠ STOT SE 3, H335	≤ 2.5%
CAS: 13463-67-7	Titanium Dioxide ⚠ Carc. 2, H351; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	≤ 2.5%
CAS: 1307-96-6	Cobalt oxide ⚠ Carc. 2, H351; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302; Skin Sens. 1, H317	≤ 2.5%
CAS: 1308-38-9 RTECS: GB 6475000	Dichromium trioxide	≤ 2.5%
CAS: 14464-46-1 RTECS: VV 7325000	cristobalite ⚠ Carc. 1A, H350	≤ 2.5%

* 4 First-aid measures

- **Description of first aid measures**

- **General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

In its solid form and under normal conditions pose no immediate hazard to health and would not require first aid.

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Dry cutting, sanding or grinding of concrete roofing tiles will generate dust containing respirable crystalline silica which can cause inhalation, skin, eye, gastrointestinal irritation.

· After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness, place patient securely on side position for transportation. Call 911.

· After skin contact:

Wash with water and soap and rinse thoroughly.

If skin irritation occurs, seek medical attention.

· After eye contact:

Remove contact lenses at once. Rinse opened eye under running water for at least 15 minutes. If irritation persists, seek medical attention.

· After swallowing:

Can cause irritation of the gastrointestinal tract.

A person vomiting while lying on their back should be turned onto their side.

Induce vomiting, only if affected person is fully conscious.

Seek medical attention.

· Information for doctor:

· Most important symptoms and effects, both acute and delayed: No further relevant information available.

· Indication of any immediate medical attention and special treatment needed

No further relevant information available.

* 5 Fire-fighting measures

· Extinguishing media**· Suitable extinguishing agents:**

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· Special hazards arising from the substance or mixture No further relevant information available.

· Advice for firefighters**· Protective equipment:**

Mouth respiratory protective device.

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

* 6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures Not required.

· Environmental precautions: Inform respective authorities.

· Methods and material for containment and cleaning up:

Dispose concrete tiles as solid waste according to section 13.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

* 7 Handling and storage

· Handling:

· Information about protection against explosions and fires: No special measures required.

· Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by storerooms and receptacles:

Handle and store tiles in a way or matter to prevent damage to the product or property.

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- **Information about storage in one common storage facility:**
Handle and store tiles in a way or matter to prevent damage to the product or property.
- **Further information about storage conditions:** None.
- **Specific end use(s)** No further relevant information available.

* 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see section 7.
- **Control parameters**

· Components with occupational exposure limits:

14808-60-7 Quartz (SiO₂)

PEL	see Quartz listing
REL	Long-term value: 0.05* mg/m ³ *respirable dust; See Pocket Guide App. A
TLV	Long-term value: 0.025* mg/m ³ *as respirable fraction

65997-15-1 Cement, portland, chemicals

PEL	Long-term value: 50 mppcf or 15* 5** mg/m ³ *total dust **respirable fraction
REL	Long-term value: 10* 5** mg/m ³ *total dust **respirable fraction
TLV	Long-term value: 1* mg/m ³ E; *as respirable fraction

1317-65-3 Calcium Carbonate

NIOSH	Short-term value: 5 mg/m ³ Long-term value: 10 mg/m ³
NIOSH TWA	Short-term value: 5 mg/m ³ Long-term value: 10 mg/m ³ respirable dust
OSHA	Short-term value: 5 mg/m ³ Long-term value: 15 mg/m ³
OSHA TWA	Short-term value: 5 mg/m ³ Long-term value: 15 mg/m ³ respirable fraction

69012-64-2 Silica-Amorphous Silica fume

TLV	TLV withdrawn
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1309-37-1 Ferric oxide

PEL	Long-term value: 10* 15** 5*** mg/m ³ *Fume; Rouge: **Total dust, ***respirable
REL	Long-term value: 5 mg/m ³ Dust & fume, as Fe
TLV	Long-term value: 5* mg/m ³ *as respirable fraction

1344-28-1 Aluminium Oxide

PEL	Long-term value: 15*, 15** mg/m ³ *Total dust; ** Respirable fraction
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REL	Long-term value: 10* 5** mg/m ³ as Al*Total dust**Respirable/pyro powd./welding f.
TLV	Long-term value: 1* mg/m ³ as Al; *as respirable fraction
13463-67-7 Titanium Dioxide	
PEL	Long-term value: 15* mg/m ³ *total dust
REL	See Pocket Guide App. A
TLV	Long-term value: 10 mg/m ³ withdrawn from NIC
1307-96-6 Cobalt oxide	
PEL	Long-term value: 0.1* mg/m ³ as Co; *for metal dust and fume
REL	Long-term value: 0.05 mg/m ³ as Co; metal dust & fume
TLV	Long-term value: 0.02 mg/m ³ as Co, BEI
1308-38-9 Dichromium trioxide	
PEL	Long-term value: 0.5 mg/m ³ as Cr
REL	Long-term value: 0.5 mg/m ³ as Cr; See Pocket Guide App. C
TLV	Long-term value: 0.5 mg/m ³ as Cr
Ingredients with biological limit values:	
1307-96-6 Cobalt oxide	
BEI	15 µg/L urine end of shift at end of workweek Cobalt (background)
	1 µg/L urine end of shift at end of workweek Cobalt (background, semi-quantitative)

· **Additional information:** The lists that were valid during the creation of this SDS were used as basis.

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Practice good hygiene.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

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Trade name: Eagle Roofing Products Concrete Roof Tile**Breathing equipment:**

Suitable respiratory protective device recommended.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. NIOSH/MSHA or EN approved respiratory protection is recommended for use in airborne concentrations exceeding exposure limits identified. Where no required/recommended exposure limits exist, personal protection measures should be incorporated when potential airborne concentrations may exceed 10 mg/m³ total dust and 3 mg/m³ respirable dust (particulate containing no asbestos and <1% crystalline silica).

Respirable dust and quartz levels may be required to be monitored regularly. Dust and quartz levels in excess of appropriate exposure limits should be reduced by feasible engineering controls, including (but not limited to) wet sawing, wet suppression, vacuuming, ventilation and process enclosures, etc. It is the operator/employer's responsibility to determine if respirators must be worn in accordance with a respiratory protection program which meets OSHA requirements as set forth at 29 · 1910.134 and ANSI Z88.2 "Practices for Respiratory Protection" when such controls are not feasible or do not completely control dust generation. It is the operator, installer or employer's responsibility to determine what safety regulations or standards apply to the job pertaining to the installation and use of concrete roof tiles.

Local Exhaust: When dry-sawing or grinding concrete roof tile, use sufficient local exhaust to reduce the level of respirable dust to the applicable standards set forth in Section II. See ACGIH "Industrial Ventilation, A Manual of Recommended Practice," latest edition.

Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Select glove material based on penetration times, rates of diffusion and degradation.

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

Eye protection:

Tightly sealed goggles

Body protection:

Wear hard hats meeting ANSI Z89.1 and/or steel-toed safety shoes meeting ANSI Z41 if tiles may fall from an elevation or be dropped during handling.

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* 9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Solid

Color: Various colors

· Odor: Odorless

· Odor threshold: Not determined.

· pH-value: Not applicable.

· Change in condition

Melting point/Melting range: Not determined.

Boiling point/Boiling range: 2230 °C (4046 °F)

· Flash point: Not applicable.

· Flammability (solid, gaseous): Not determined.

· Ignition temperature:

Decomposition temperature: Not determined.

· Auto igniting: Product is not self-igniting.

· Danger of explosion: Product does not present an explosion hazard.

· Explosion limits:

Lower: Not determined.

Upper: Not determined.

· Vapor pressure: Not applicable.

· Density: Not determined.

· Relative density: Not determined.

· Vapor density: Not applicable.

· Evaporation rate: Not applicable.

· Solubility in / Miscibility with

Water: Insoluble.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

Dynamic: Not applicable.

Kinematic: Not applicable.

· Solvent content:

Organic solvents: 0.0 %

Solids content: 100.0 %

· Other information: No further relevant information available.

* 10 Stability and reactivity

· **Reactivity** No further relevant information available.

· **Chemical stability** Stable under normal conditions.

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

· **Possibility of hazardous reactions** No dangerous reactions known.

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- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** Contact with fluorine, oxygen difluoride, and chlorine trifluoride will cause fire.
- **Hazardous decomposition products:** No dangerous decomposition products known.

* 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

14808-60-7 Quartz (SiO₂)

Inhalative	LC50/96 hours	1033 mg/l (Trout)
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1309-37-1 Ferric oxide

Oral	LD50	>5000 mg/kg (rat)
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13463-67-7 Titanium Dioxide

Oral	LD50	>10000 mg/kg (rat)
Dermal	LD50	>10000 mg/kg (rabbit)
Inhalative	LC50/4 h	>6.82 mg/l (rat)

1308-38-9 Dichromium trioxide

Oral	LD50	10000 mg/kg (rat)
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- **Primary irritant effect:**
- **on the skin:** Emissions from broken bulbs may cause an allergic skin reaction.
- **on the eye:**
Irritating effect.
Causes serious eye irritation.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Harmful
Irritant

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

14808-60-7	Quartz (SiO ₂)	1
69012-64-2	Silica-Amorphous Silica fume	3
1309-37-1	Ferric oxide	3
13463-67-7	Titanium Dioxide	2B
1307-96-6	Cobalt oxide	2B
14464-46-1	cristobalite	1
7440-38-2	Arsenic	1

- **NTP (National Toxicology Program)**

14808-60-7	Quartz (SiO ₂)	K
14464-46-1	cristobalite	K
7440-38-2	Arsenic	K

- **OSHA-Ca (Occupational Safety & Health Administration)**

7440-38-2	Arsenic
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* 12 Ecological information

· **Toxicity**

Hazards exempt when in bonded form or when it cannot be released due to cutting, grinding, heating, etc. and will not pose an ecological risk.

· **Aquatic toxicity:**

14808-60-7 Quartz (SiO₂)

EC50 218 mg/l (Green algae)

13463-67-7 Titanium Dioxide

EC50 >1000 mg/l (Water flea)

· **Persistence and degradability** No further relevant information available.

· **Behavior in environmental systems:**

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

· **Ecotoxicological effects:**

· **Remark:** Toxic for fish

· **Additional ecological information:**

· **General notes:**

Poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Other adverse effects** No further relevant information available.

* 13 Disposal considerations

· **Waste treatment methods**

· **Recommendation:**

Observe all federal, state and local environmental regulations when disposing of this material.

· **Uncleaned packagings:**

· **Recommendation:**

Observe all federal, state and local environmental regulations when disposing of this material.

* 14 Transport information

· **UN-Number**

· **DOT, ADR, ADN, IMDG, IATA**

Non-Regulated Material

· **UN proper shipping name**

· **DOT, ADR, ADN, IMDG, IATA**

Non-Regulated Material

· **Transport hazard class(es)**

· **DOT, ADR, ADN, IMDG, IATA**

· **Class**

Non-Regulated Material

· **Packing group**

· **DOT, ADR, IMDG, IATA**

Non-Regulated Material

· **Environmental hazards:**

Not applicable.

· **Special precautions for user**

Not applicable.

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

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· **UN "Model Regulation":**

-

* 15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
· **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 313 (Specific toxic chemical listings):**

1344-28-1 Aluminium Oxide

1307-96-6 Cobalt oxide

1308-38-9 Dichromium trioxide

7440-38-2 Arsenic

· **TSCA (Toxic Substances Control Act):**

14808-60-7 Quartz (SiO₂)

65997-15-1 Cement, portland, chemicals

1317-65-3 Calcium Carbonate

69012-64-2 Silica-Amorphous Silica fume

1309-37-1 Ferric oxide

1344-28-1 Aluminium Oxide

13463-67-7 Titanium Dioxide

1307-96-6 Cobalt oxide

1308-38-9 Dichromium trioxide

8016-70-4 Hydrogenated (Low I.V.) Soybean Oil

1305-78-8 calcium oxide

14464-46-1 cristobalite

7440-38-2 Arsenic

· **California Proposition 65**

· **Chemicals known to cause cancer:**

14808-60-7 Quartz (SiO₂)

13463-67-7 Titanium Dioxide

1307-96-6 Cobalt oxide

14464-46-1 cristobalite

7440-38-2 Arsenic

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

1308-38-9 Dichromium trioxide

D, CBD

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7440-38-2	Arsenic	A
· TLV (Threshold Limit Value established by ACGIH)		
14808-60-7	Quartz (SiO ₂)	A2
1309-37-1	Ferric oxide	A4
1344-28-1	Aluminium Oxide	A4
13463-67-7	Titanium Dioxide	A4
1307-96-6	Cobalt oxide	A3
1308-38-9	Dichromium trioxide	A4
14464-46-1	cristobalite	A2
7440-38-2	Arsenic	A1

· NIOSH-Ca (National Institute for Occupational Safety and Health)		
14808-60-7	Quartz (SiO ₂)	
13463-67-7	Titanium Dioxide	
14464-46-1	cristobalite	
7440-38-2	Arsenic	

- **GHS label elements** Non-Regulated Material
- **Hazard pictograms** Non-Regulated Material
- **Signal word** Non-Regulated Material
- **Hazard statements** Non-Regulated Material
- **Precautionary statements**
 Avoid breathing dust/fume/gas/mist/vapors/spray.
 Wear protective gloves/protective clothing/eye protection/face protection.
 Wash thoroughly after handling.
 If skin irritation or rash occurs: Get medical advice/attention.
 If eye irritation persists: Get medical advice/attention.
 Get medical advice/attention if you feel unwell.

· National regulations:	
The product is subject to be classified according with the latest version of the regulations on hazardous substances.	

· State Right to Know		
CAS: 14808-60-7 RTECS: VV 7330000	Quartz (SiO ₂) ☠ Carc. 1A, H350; STOT RE 1, H372; ☠ Acute Tox. 4, H332; STOT SE 3, H335; Eye Irrit. 2B, H320	65-80%
CAS: 65997-15-1 RTECS: VV 8770000	Cement, portland, chemicals	15-35%
	Acrylic Latex Polymer	2-12%
CAS: 1317-65-3	Calcium Carbonate ☠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	≤2.5%
CAS: 69012-64-2	Silica-Amorphous Silica fume ☠ STOT RE 1, H372; ☠ Skin Irrit. 2, H315; STOT SE 3, H335; Eye Irrit. 2B, H320	≤ 2.5%
CAS: 1309-37-1 RTECS: NO 7400000	Ferric oxide ☠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	≤ 2.5%
All ingredients are listed.		

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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* 16 Other information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

· **Date of preparation / last revision** 06/08/2015 / 6

· **Abbreviations and acronyms:**

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A

Eye Irrit. 2B: Serious eye damage/eye irritation, Hazard Category 2B

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Carc. 1A: Carcinogenicity, Hazard Category 1A

Carc. 2: Carcinogenicity, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1

· *** Data compared to the previous version altered.**

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