# BlakPatch Putty

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 01/30/2020

## SECTION 1: Identification

### 1.1. Identification

Product form : Mixture

Trade name : BlakPatch Putty

Product code : 417600

### 1.2. Recommended use and restrictions on use

Recommended use : Refractory Applications

### 1.3. Supplier

Reno Refractories, Inc.
601 Reno Drive
P.O. Box 201
Morris, AL 35116 - United States
T 205-647-0240 - F 205-647-6854
sales@r-ref.com - www.renorefractories.com

### 1.4. Emergency telephone number

Emergency number : 1-800-262-8200 CHEMTREC

## SECTION 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

**GHS US classification**

| | |
|---|---|
| Corrosive to metals Category 1 | May be corrosive to metals |
| Serious eye damage/eye irritation Category 1 | Causes serious eye damage |
| Skin sensitization, Category 1 | May cause an allergic skin reaction |
| Carcinogenicity Category 1A | May cause cancer |
| Specific target organ toxicity (repeated exposure) Category 1 | Causes damage to organs through prolonged or repeated exposure |

### 2.2. GHS Label elements, including precautionary statements

**GHS US labeling**

Hazard pictograms (GHS US) :

Signal word (GHS US) : Danger

Hazard statements (GHS US) : May be corrosive to metals
May cause an allergic skin reaction
Causes serious eye damage
May cause cancer
Causes damage to organs through prolonged or repeated exposure

Precautionary statements (GHS US) : Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep only in original container.
Do not breathe dust/fume/gas/mist/vapours/spray.
Wash hands, forearms and face thoroughly after handling.
Do not eat, drink or smoke when using this product.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
If on skin: Wash with plenty of water.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If exposed or concerned: Get medical advice/attention.
Immediately call a poison center or doctor.
Get medical advice/attention if you feel unwell.
Specific treatment (see supplemental first aid instruction on this label).
If skin irritation or rash occurs: Get medical advice/attention.
Wash contaminated clothing before reuse.
Absorb spillage to prevent material-damage.
Dispose of contents/container to hazardous or special waste collection point, in accordance

with local, regional, national and/or international regulation.

### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name | Product identifier | % | GHS US classification |
|---|---|---|---|
| Aluminum sulfate (2:3) | (CAS-No.) 10043-01-3 | 2 - 4 | Met. Corr. 1, H290<br>Eye Dam. 1, H318 |
| Crystalline silica | (CAS-No.) 14808-60-7 | 1.05 - 2.633 | Carc. 1A, H350<br>STOT RE 1, H372 |
| Silica, crystalline – cristobalite | (CAS-No.) 14464-46-1 | 0.705 - 1.612 | STOT RE 1, H372 |
| Titanium dioxide | (CAS-No.) 13463-67-7 | 0.05 - 1.05 | Carc. 2, H351 |
| Carbon Black | (CAS-No.) 1333-86-4 | 0.9 - 1 | Carc. 2, H351 |
| Nickel | (CAS-No.) 7440-02-0 | 0 - 0.13 | Skin Sens. 1, H317<br>Carc. 2, H351<br>STOT RE 1, H372 |

Full text of hazard classes and H-statements : see section 16

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

First-aid measures general : IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after skin contact : May cause an allergic skin reaction.

Symptoms/effects after eye contact : Serious damage to eyes.

### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

### 5.2. Specific hazards arising from the chemical

No additional information available

### 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Only qualified personnel equipped with suitable protective equipment may intervene. Do not breathe dust/fume/gas/mist/vapours/spray.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product. Notify authorities if product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Wear personal protective equipment. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

Hygiene measures : Separate working clothes from town clothes. Launder separately. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in original container. Store in a well-ventilated place. Keep cool.

Incompatible materials : Metals.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| **BlakPatch Putty** | |
|---|---|
| No additional information available | |

| **Crystalline silica (14808-60-7)** | |
|---|---|
| **USA - ACGIH - Occupational Exposure Limits** | |
| Local name | Silica crystaline - quartz |
| ACGIH TWA (mg/m³) | 0.025 mg/m³ (Respirable fraction) |
| Remark (ACGIH) | TLV® Basis: Pulm fibrosis; lung cancer. Notations: A2 (Suspected Human Carcinogen) |
| Regulatory reference | ACGIH 2019 |
| **USA - OSHA - Occupational Exposure Limits** | |
| Local name | Quartz (Respirable) (Silica: Crystalline) |
| Remark (OSHA) | Table Z-3. For OSHA PEL (TWA): Use formulas: (250 / (%SiO2+5)) for mppcf and (10 mg/m3 / (%SiO2+2)) for mg/m3. CAS No. source: eCFR Table Z-1. |
| Regulatory reference (US-OSHA) | OSHA Annotated Table Z-3 Mineral Dusts |

| **Aluminum sulfate (2:3) (10043-01-3)** |
|---|
| No additional information available |

| **Carbon Black (1333-86-4)** | |
|---|---|
| **USA - ACGIH - Occupational Exposure Limits** | |
| Local name | Carbon black |
| ACGIH TWA (mg/m³) | 3 mg/m³ (Inhalable fraction) |
| Remark (ACGIH) | TLV® Basis: Bronchitis. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans) |
| Regulatory reference | ACGIH 2019 |
| **USA - OSHA - Occupational Exposure Limits** | |
| Local name | Carbon black |
| OSHA PEL (TWA) (mg/m³) | 3.5 mg/m³ |
| Regulatory reference (US-OSHA) | OSHA Annotated Table Z-1 |

| **Titanium dioxide (13463-67-7)** | |
|---|---|
| **USA - ACGIH - Occupational Exposure Limits** | |
| Local name | Titanium dioxide |

| | |
|---|---|
| ACGIH TWA (mg/m³) | 10 mg/m³ |
| Remark (ACGIH) | TLV® Basis: LRT irr. Notations: A4 (Not classifiable as a Human Carcinogen) |
| Regulatory reference | ACGIH 2019 |
| **USA - OSHA - Occupational Exposure Limits** | |
| Local name | Titanium dioxide (Total dust) |
| OSHA PEL (TWA) (mg/m³) | 15 mg/m³ |
| Regulatory reference (US-OSHA) | OSHA Annotated Table Z-1 |
| **Nickel (7440-02-0)** | |
| **USA - ACGIH - Occupational Exposure Limits** | |
| Local name | Nickel, elemental |
| ACGIH TWA (mg/m³) | 1.5 mg/m³ (Inhalable fraction) |
| Remark (ACGIH) | TLV® Basis: Dermatitis; pneumoconiosis. Notations: A5 (Not Suspected as a Human Carcinogen) |
| Regulatory reference | ACGIH 2019 |
| **USA - OSHA - Occupational Exposure Limits** | |
| Local name | Nickel |
| OSHA PEL (TWA) (mg/m³) | 1 mg/m³ metal and insoluble compounds (as Ni)<br>1 mg/m³ soluble compounds (as Ni) |
| Regulatory reference (US-OSHA) | OSHA Annotated Table Z-1 |
| **Silica, crystalline – cristobalite (14464-46-1)** | |
| **USA - ACGIH - Occupational Exposure Limits** | |
| Local name | Silica crystaline - cristobalite |
| ACGIH TWA (mg/m³) | 0.025 mg/m³ (Respirable fraction) |
| Remark (ACGIH) | TLV® Basis: Pulm fibrosis; lung cancer. Notations: A2 (Suspected Human Carcinogen) |
| Regulatory reference | ACGIH 2019 |
| **USA - OSHA - Occupational Exposure Limits** | |
| Local name | Cristobalite (Silica: Crystalline) |
| Remark (OSHA) | Table Z-3. For OSHA PEL (TWA): Use ½ the value calculated from the count or mass formulae for quartz. CAS No. source: eCFR Table Z-1. |
| Regulatory reference (US-OSHA) | OSHA Annotated Table Z-3 Mineral Dusts |

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

**Hand protection:**

Protective gloves

**Eye protection:**

Safety glasses

**Skin and body protection:**

Wear suitable protective clothing

**Respiratory protection:**

Wear respiratory protection.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Solid

Color : Grey to black

Odor : Almost odourless

Odor threshold : No data available

| | | |
|---|---|---|
| pH | : | No data available |
| Melting point | : | No data available |
| Freezing point | : | Not applicable |
| Boiling point | : | No data available |
| Flash point | : | Not applicable |
| Relative evaporation rate (butyl acetate=1) | : | No data available |
| Flammability (solid, gas) | : | Non flammable. |
| Vapor pressure | : | No data available |
| Relative vapor density at 20 °C | : | No data available |
| Relative density | : | 2.53 |
| Solubility | : | No data available |
| Log Pow | : | No data available |
| Auto-ignition temperature | : | Not applicable |
| Decomposition temperature | : | No data available |
| Viscosity, kinematic | : | No data available |
| Viscosity, dynamic | : | No data available |
| Explosion limits | : | Not applicable |
| Explosive properties | : | No data available |
| Oxidizing properties | : | No data available |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

metals.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

| | | |
|---|---|---|
| Acute toxicity (oral) | : | Not classified |
| Acute toxicity (dermal) | : | Not classified |
| Acute toxicity (inhalation) | : | Not classified |

| **Aluminum sulfate (2:3) (10043-01-3)** | |
|---|---|
| LD50 oral rat | 2000 - 5000 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Female, Experimental value, Oral, 14 day(s)) |
| LD50 dermal rabbit | > 5000 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Experimental value of similar product, Dermal, 14 day(s)) |
| LC50 inhalation rat (mg/l) | > 5 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Read-across, Inhalation (aerosol), 14 day(s)) |
| ATE US (oral) | 2000 mg/kg body weight |

| **Carbon Black (1333-86-4)** | |
|---|---|
| LD50 oral rat | > 8000 mg/kg (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral) |

| Carbon Black (1333-86-4) | |
|---|---|
| LD50 dermal rabbit | > 3000 mg/kg (Rabbit, Literature study, Dermal) |
| LC50 inhalation rat (mg/l) | > 4.6 mg/l air (4 h, Rat, Experimental value, Inhalation) |

| Titanium dioxide (13463-67-7) | |
|---|---|
| LD50 oral rat | > 5000 mg/kg body weight (OECD 425: Acute Oral Toxicity: Up-and-Down Procedure, Rat, Female, Experimental value, Oral, 14 day(s)) |
| LC50 inhalation rat (mg/l) | > 6.82 mg/l (Other, 4 h, Rat, Male, Experimental value, Inhalation (dust), 14 day(s)) |

| Nickel (7440-02-0) | |
|---|---|
| LD50 oral rat | > 9000 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral) |

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Causes serious eye damage.

Respiratory or skin sensitization : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Carcinogenicity : May cause cancer.

| Crystalline silica (14808-60-7) | |
|---|---|
| IARC group | 1 - Carcinogenic to humans |

| Carbon Black (1333-86-4) | |
|---|---|
| IARC group | 2B - Possibly carcinogenic to humans |

| Titanium dioxide (13463-67-7) | |
|---|---|
| IARC group | 2B - Possibly carcinogenic to humans |

| Nickel (7440-02-0) | |
|---|---|
| IARC group | 2B - Possibly carcinogenic to humans |
| National Toxicity Program (NTP) Status | Reasonably anticipated to be Human Carcinogen |

Reproductive toxicity : Not classified

Specific target organ toxicity – single exposure : Not classified

Specific target organ toxicity – repeated exposure : Causes damage to organs through prolonged or repeated exposure.

| Crystalline silica (14808-60-7) | |
|---|---|
| Specific target organ toxicity – repeated exposure | Causes damage to organs through prolonged or repeated exposure. |

| Nickel (7440-02-0) | |
|---|---|
| Specific target organ toxicity – repeated exposure | Causes damage to organs through prolonged or repeated exposure. |

| Silica, crystalline – cristobalite (14464-46-1) | |
|---|---|
| Specific target organ toxicity – repeated exposure | Causes damage to organs through prolonged or repeated exposure. |

Aspiration hazard : Not classified

Viscosity, kinematic : No data available

Symptoms/effects after skin contact : May cause an allergic skin reaction.

Symptoms/effects after eye contact : Serious damage to eyes.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

| **Aluminum sulfate (2:3) (10043-01-3)** | |
|---|---|
| LC50 fish 1 | > 87.5 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Semi-static system, Fresh water, Experimental value, Lethal) |
| EC50 Daphnia 1 | > 200 mg/l (Equivalent or similar to OECD 202, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect) |
| ErC50 (algae) | 14 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Nominal concentration) |

| **Carbon Black (1333-86-4)** | |
|---|---|
| LC50 fish 1 | > 1000 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Brachydanio rerio, Literature study) |
| EC50 Daphnia 1 | > 5600 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 24 h, Daphnia magna, Static system, Fresh water, Experimental value) |

| **Titanium dioxide (13463-67-7)** | |
|---|---|
| LC50 fish 1 | > 100 mg/l (Equivalent or similar to OECD 203, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, Nominal concentration) |
| ErC50 (algae) | 61 mg/l (EPA 600/9-78-018, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Nominal concentration) |

| **Nickel (7440-02-0)** | |
|---|---|
| LC50 fish 1 | 15.3 mg/l (Other, 96 h, Oncorhynchus mykiss, Semi-static system, Fresh water, Experimental value, Nickel ion) |

### 12.2. Persistence and degradability

| **Crystalline silica (14808-60-7)** | |
|---|---|
| Persistence and degradability | Biodegradability: not applicable. |
| Chemical oxygen demand (COD) | Not applicable (inorganic) |
| ThOD | Not applicable (inorganic) |

| **Aluminum sulfate (2:3) (10043-01-3)** | |
|---|---|
| Persistence and degradability | Biodegradability: not applicable. |
| Chemical oxygen demand (COD) | Not applicable (inorganic) |
| ThOD | Not applicable (inorganic) |

| **Carbon Black (1333-86-4)** | |
|---|---|
| Persistence and degradability | Biodegradability in soil: not applicable. Biodegradability: not applicable. |
| Chemical oxygen demand (COD) | Not applicable |
| ThOD | Not applicable |
| BOD (% of ThOD) | Not applicable |

| **Titanium dioxide (13463-67-7)** | |
|---|---|
| Persistence and degradability | Biodegradability: not applicable. |
| Chemical oxygen demand (COD) | Not applicable (inorganic) |
| ThOD | Not applicable (inorganic) |

| **Nickel (7440-02-0)** | |
|---|---|
| Persistence and degradability | Biodegradability in soil: not applicable. Biodegradability: not applicable. |
| Chemical oxygen demand (COD) | Not applicable (inorganic) |
| ThOD | Not applicable (inorganic) |

| **Silica, crystalline – cristobalite (14464-46-1)** | |
|---|---|
| Persistence and degradability | Biodegradability: not applicable. |
| Chemical oxygen demand (COD) | Not applicable |
| ThOD | Not applicable |
| BOD (% of ThOD) | Not applicable |

### 12.3. Bioaccumulative potential

| **Crystalline silica (14808-60-7)** | |
|---|---|
| Bioaccumulative potential | No bioaccumulation data available. |

| **Aluminum sulfate (2:3) (10043-01-3)** | |
|---|---|
| Bioaccumulative potential | No bioaccumulation data available. |

| **Carbon Black (1333-86-4)** | |
|---|---|
| Bioaccumulative potential | Not bioaccumulative. |

| **Titanium dioxide (13463-67-7)** | |
|---|---|
| Bioaccumulative potential | Not bioaccumulative. |

| **Nickel (7440-02-0)** | |
|---|---|
| BCF other aquatic organisms 1 | 1555 (Other, Myrriophyllum sp., Fresh water, Experimental value, Nickel ion) |
| Log Pow | -0.57 (Estimated value) |
| Bioaccumulative potential | Potential for bioaccumulation (500 ≤ BCF ≤ 5000). |

| **Silica, crystalline – cristobalite (14464-46-1)** | |
|---|---|
| Bioaccumulative potential | No test data available. |

### 12.4. Mobility in soil

| **Crystalline silica (14808-60-7)** | |
|---|---|
| Ecology - soil | No (test)data on mobility of the substance available. |

| **Aluminum sulfate (2:3) (10043-01-3)** | |
|---|---|
| Surface tension | 73 mN/m (20 °C, 1 g/l, OECD 115: Surface Tension of Aqueous Solutions) |
| Ecology - soil | No (test)data on mobility of the substance available. |

| **Carbon Black (1333-86-4)** | |
|---|---|
| Ecology - soil | Adsorbs into the soil. Not toxic to plants. Not toxic to animals. |

| **Titanium dioxide (13463-67-7)** | |
|---|---|
| Ecology - soil | Low potential for mobility in soil. |

| **Nickel (7440-02-0)** | |
|---|---|
| Ecology - soil | No (test)data on mobility of the substance available. |

| **Silica, crystalline – cristobalite (14464-46-1)** | |
|---|---|
| Ecology - soil | No (test)data on mobility of the substance available. |

### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

## SECTION 14: Transport information

**Department of Transportation (DOT)**

In accordance with DOT

Not applicable

**Transportation of Dangerous Goods**

Not applicable

**Transport by sea**

Not applicable

**Air transport**

Not applicable

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

| **Crystalline silica (14808-60-7)** | |
|---|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |

| **Aluminum sulfate (2:3) (10043-01-3)** | |
|---|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory<br>Not subject to reporting requirements of the United States SARA Section 313 | |
| CERCLA RQ | 5000 lb |

| **Carbon Black (1333-86-4)** | |
|---|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |

| **Titanium dioxide (13463-67-7)** | |
|---|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |

| **Nickel (7440-02-0)** | |
|---|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory<br>Subject to reporting requirements of United States SARA Section 313 | |
| CERCLA RQ | 100 lb |

| **Silica, crystalline – cristobalite (14464-46-1)** | |
|---|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |

### 15.2. International regulations

#### CANADA

| **Crystalline silica (14808-60-7)** |
|---|
| Listed on the Canadian DSL (Domestic Substances List) |

| **Aluminum sulfate (2:3) (10043-01-3)** |
|---|
| Listed on the Canadian DSL (Domestic Substances List) |

| **Carbon Black (1333-86-4)** |
|---|
| Listed on the Canadian DSL (Domestic Substances List) |

| **Titanium dioxide (13463-67-7)** |
|---|
| Listed on the Canadian DSL (Domestic Substances List) |

| **Nickel (7440-02-0)** |
|---|
| Listed on the Canadian DSL (Domestic Substances List) |

| **Silica, crystalline – cristobalite (14464-46-1)** |
|---|
| Listed on the Canadian DSL (Domestic Substances List) |

#### EU-Regulations

#### National regulations

| **Crystalline silica (14808-60-7)** |
|---|
| Listed on IARC (International Agency for Research on Cancer) |

| **Carbon Black (1333-86-4)** |
|---|
| Listed on IARC (International Agency for Research on Cancer) |

| **Titanium dioxide (13463-67-7)** |
|---|
| Listed on IARC (International Agency for Research on Cancer) |

| **Nickel (7440-02-0)** |
|---|
| Listed on IARC (International Agency for Research on Cancer)<br>Listed as carcinogen on NTP (National Toxicology Program) |

### 15.3. US State regulations

| Carbon Black (1333-86-4) | | | | | |
|---|---|---|---|---|---|
| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) | Maximum allowable dose level (MADL) |
| Yes | No | No | No | | |

| Nickel (7440-02-0) | | | | | |
|---|---|---|---|---|---|
| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) | Maximum allowable dose level (MADL) |
| Yes | No | No | No | | |

| Component | State or local regulations |
|---|---|
| Crystalline silica(14808-60-7) | U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List |
| Aluminum sulfate (2:3)(10043-01-3) | U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List |
| Carbon Black(1333-86-4) | U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List |
| Titanium dioxide(13463-67-7) | U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List |
| Nickel(7440-02-0) | U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List |
| Silica, crystalline – cristobalite(14464-46-1) | U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List |

## SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date : 01/30/2020

Full text of H-phrases:

| | |
|---|---|
| H290 | May be corrosive to metals |
| H317 | May cause an allergic skin reaction |
| H318 | Causes serious eye damage |
| H350 | May cause cancer |
| H351 | Suspected of causing cancer |
| H372 | Causes damage to organs through prolonged or repeated exposure |

SDS US (GHS HazCom 2012)

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