

# SAFETY DATA SHEET

A-01 E



## Section 1. Identification

- GHS product identifier** : HP Grinding, HP XX, Allsteel XX, Stainless, ALU, Concrete, Pipefitter, Xcavator, Ripcut, Chopcut, Chopcut ALU, Portacut, Zip, Zip Stainless, Zipcut, Zip ALU, Railcut II, HP Cup Wheel, Flexcut, Flexcut Millscale, Zip TiTAN, Chopcut TiTAN
- SDS no.** : A-01 E
- Product code** : 08-B ( 310, 312, 400, 402, 410, 412, 450, 451, 452, 460, 462, 500, 501, 502, 510, 512, 600, 602, 630, 632, 701, 710, 712, 901, 910, 912)  
08-D (452, 502, 702)  
08-E (450, 500, 700)  
08-F (450, 451, 452, 460, 462, 500, 501, 502, 510, 512, 600, 602, 700, 702, 900, 902)  
08-H (450, 452, 500, 502, 600, 602, 700, 702, 900, 902)  
08-K (400, 410, 450, 460, 500, 510, 600, 700, 701, 900, 901)  
08-L (450, 452, 500, 502, 600, 602, 700, 702, 900, 902)  
08-N (452, 453, 454, 502, 503, 504, 533, 602, 603, 604, 633, 634, 702, 703, 704, 904)  
08-P (450, 460, 500, 510, 600, 700, 900)  
10-A (123, 143, 163, 183, 203, 206, 246)  
10-B (123, 143, 163, 183, 203, 246)  
10-C (123, 143, 163, 203, 206)  
10-H (143, 163)  
10-L (123, 143)  
10-P (123, 143, 163)  
10-Q (123, 143, 163)  
11-A (121, 122, 123, 141, 142, 143)  
11-D (121, 122, 123, 141, 142, 143)  
11-F (042, 052, 062, 072, 092, 142, 152, 162, 172, 192)  
11-H (042, 052, 062, 072)  
11-L (211, 213, 221, 223, 231, 233, 251, 253, 302, 303, 308, 312, 313, 322, 323, 333, 353, 403, 405, 408, 413, 415, 423, 433, 453)  
11-T (042, 052, 062, 070, 072, 080, 092, 100, 142, 152, 162, 172, 192, 242, 252, 262, 272, 292, 342, 352, 362, 453, 503, 542, 552, 603, 642, 652, 662, 772, 842, 844, 852, 854, 862, 864)  
11-U (042, 052, 062, 072, 142, 152, 162, 172, 303, 403)  
11-V (143, 163)  
12-A (004, 005, 006)  
12-B (004, 005, 006)  
15-L (303, 306, 453, 456, 460, 503, 506, 510, 602, 603, 606, 702, 703, 706, 710, 463, 513, 516, 843, 853, 863, 873)



## Section 1. Identification

**Product type** : Solid.

**Identified uses**

Grinding with portable hand angle grinder machines.

**Supplier/Manufacturer** : Walter Surface Technologies Inc.

**Supplier's details**

: 810 Day Hill Road  
Windsor, CT 06095  
United States  
General Information: 18665925837  
www.walter.com

**Emergency telephone number (with hours of operation)**

: INFOTRAC®  
1-800-535-5053, Outside U.S.A. call collect: 1-352-323-3500  
24 hours/day, 7 days/week.

## Section 2. Hazards identification

**OSHA/HCS status** : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

**Classification of the substance or mixture** : Not classified.

This product is an Article under the United States Hazard Communication systems, WHMIS 2015 and Mexican NMX-R-019. Therefore it is EXEMPTED from the regulatory requirements under HCS, WHMIS 2015 and the NMX R-019.

**GHS label elements**

**Signal word** : No signal word.

**Hazard statements** : No known significant effects or critical hazards.

**Precautionary statements**

**Prevention** : Not applicable.

**Response** : Not applicable.

**Storage** : Not applicable.

**Disposal** : Not applicable.

**Hazards not otherwise classified (HNOC)**

**Physical hazards not otherwise classified (PHNOC)** : None known.

## Section 2. Hazards identification

Health hazards not otherwise classified (HHNOC) : None known.

## Section 3. Composition/information on ingredients

Substance/mixture : Mixture

### CAS number/other identifiers

CAS number : Not applicable.

Ingredient name	%	CAS number
Aluminum potassium fluoride	10 - 30	60304-36-1
Titanium dioxide	1 - 5	13463-67-7
Calcium oxide	1 - 5	1305-78-8
Zinc Oxide	1 - 5	1314-13-2
Carbon black	0.01 - 0.3	1333-86-4

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

### Description of necessary first aid measures

**Eye contact** : Not a likely route of exposure.  
**Inhalation** : Not a likely route of exposure.  
**Skin contact** : Flush contaminated skin with plenty of water. Get medical attention if symptoms occur.  
**Ingestion** : Not a likely route of exposure. Get medical attention if symptoms occur.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

**Eye contact** : No known significant effects or critical hazards.  
**Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : No known significant effects or critical hazards.  
**Ingestion** : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

**Eye contact** : No known significant effects or critical hazards.  
**Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : No known significant effects or critical hazards.  
**Ingestion** : No known significant effects or critical hazards.

### Indication of immediate medical attention and special treatment needed, if necessary

**Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.  
**Specific treatments** : No specific treatment.  
**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.

**Specific hazards arising from the chemical** : No specific fire or explosion hazard.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
Sulfur oxides  
halogenated compounds  
metal oxide/oxides

**Special protective actions for fire-fighters** : No special measures are required.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** : N/A, solid material

### Methods and materials for containment and cleaning up

- Small spill** : N/A, solid material
- Large spill** : N/A, solid material

## Section 7. Handling and storage

### Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8).
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures. Remove contaminated clothing and protective equipment before entering eating areas.

**Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls/personal protection

### Control parameters

#### United States

#### Occupational exposure limits

Ingredient name	Exposure limits
Aluminum potassium fluoride	<p><b>ACGIH TLV (United States, 2/2010).</b> TWA: 2.5 mg/m<sup>3</sup>, (as F) 8 hours.</p> <p><b>NIOSH REL (United States, 6/2009).</b> TWA: 2 mg/m<sup>3</sup>, (as Al) 10 hours.</p> <p><b>OSHA PEL Z2 (United States, 11/2006).</b> TWA: 2.5 mg/m<sup>3</sup> 8 hours. Form: Dust</p> <p><b>OSHA PEL (United States, 6/2010).</b> TWA: 2.5 mg/m<sup>3</sup>, (as F) 8 hours.</p> <p><b>OSHA PEL 1989 (United States, 3/1989).</b> TWA: 2.5 mg/m<sup>3</sup>, (as F) 8 hours.</p>
Titanium dioxide	<p><b>OSHA PEL (United States, 2/2013).</b> TWA: 15 mg/m<sup>3</sup> 8 hours. Form: Total dust</p> <p><b>ACGIH TLV (United States, 4/2014).</b> TWA: 10 mg/m<sup>3</sup> 8 hours.</p>
Calcium oxide	<p><b>ACGIH TLV (United States, 4/2014).</b> TWA: 2 mg/m<sup>3</sup> 8 hours.</p> <p><b>NIOSH REL (United States, 10/2013).</b> TWA: 2 mg/m<sup>3</sup> 10 hours.</p> <p><b>OSHA PEL (United States, 2/2013).</b> TWA: 5 mg/m<sup>3</sup> 8 hours.</p>
Zinc Oxide	<p><b>NIOSH REL (United States, 10/2013).</b> CEIL: 15 mg/m<sup>3</sup> Form: Dust TWA: 5 mg/m<sup>3</sup> 10 hours. Form: Dust and fumes STEL: 10 mg/m<sup>3</sup> 15 minutes. Form: Fume</p> <p><b>OSHA PEL 1989 (United States, 3/1989).</b> TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Fume STEL: 10 mg/m<sup>3</sup> 15 minutes. Form: Fume TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction TWA: 10 mg/m<sup>3</sup> 8 hours. Form: Total dust</p> <p><b>OSHA PEL (United States, 2/2013).</b> TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Fume TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction TWA: 15 mg/m<sup>3</sup> 8 hours. Form: Total dust</p> <p><b>ACGIH TLV (United States, 4/2014).</b> TWA: 2 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction STEL: 10 mg/m<sup>3</sup> 15 minutes. Form: Respirable fraction</p>
Carbon black	<p><b>ACGIH TLV (United States, 4/2014).</b> TWA: 3 mg/m<sup>3</sup> 8 hours. Form: Inhalable fraction.</p> <p><b>NIOSH REL (United States, 10/2013).</b> TWA: 3.5 mg/m<sup>3</sup> 10 hours. TWA: 0.1 mg of PAHs/cm<sup>3</sup> 10 hours.</p> <p><b>OSHA PEL (United States, 2/2013).</b> TWA: 3.5 mg/m<sup>3</sup> 8 hours.</p>

#### Canada

Occupational exposure limits		TWA (8 hours)			STEL (15 mins)			Ceiling			Notations
Ingredient	List name	ppm	mg/m <sup>3</sup>	Other	ppm	mg/m <sup>3</sup>	Other	ppm	mg/m <sup>3</sup>	Other	
Aluminium oxide	US ACGIH 4/2014	-	1	-	-	-	-	-	-	-	[a]
	AB 4/2009	-	10	-	-	-	-	-	-	-	[b]
	BC 7/2013	-	1	-	-	-	-	-	-	-	[a]
Aluminium oxide, Al	ON 1/2013	-	1	-	-	-	-	-	-	-	[a]
	QC 1/2014	-	10	-	-	-	-	-	-	-	[c]
	US ACGIH 2/2010	-	2.5	-	-	-	-	-	-	-	
Aluminum potassium fluoride, as F	AB 4/2009	-	2.5	-	-	-	-	-	-	-	
	BC 9/2010	-	2.5	-	-	-	-	-	-	-	
	ON 7/2010	-	2.5	-	-	-	-	-	-	-	
Aluminum potassium fluoride, as Al	QC 6/2008	-	2	-	-	-	-	-	-	-	
	US ACGIH 4/2014	-	10	-	-	-	-	-	-	-	
	AB 4/2009	-	10	-	-	-	-	-	-	-	[3]
Titanium dioxide	BC 7/2013	-	3	-	-	-	-	-	-	-	[d]
	-	-	10	-	-	-	-	-	-	-	[c]
	ON 1/2013	-	10	-	-	-	-	-	-	-	[c]



**Section 8. Exposure controls/personal protection**

Calcium oxide	QC 1/2014	-	10	-	-	-	-	-	-	-	[c]
	US ACGIH 4/2014	-	2	-	-	-	-	-	-	-	[3]
	AB 4/2009	-	2	-	-	-	-	-	-	-	
	BC 7/2013	-	2	-	-	-	-	-	-	-	
	ON 1/2013	-	2	-	-	-	-	-	-	-	
Zinc Oxide	QC 1/2014	-	2	-	-	-	-	-	-	-	
	US ACGIH 4/2014	-	2	-	-	10	-	-	-	-	[a]
	AB 4/2009	-	2	-	-	10	-	-	-	-	[b]
	BC 7/2013	-	2	-	-	10	-	-	-	-	[b]
	ON 1/2013	-	2	-	-	10	-	-	-	-	[a]
Diiron trioxide Diiron trioxide, Fe	QC 1/2014	-	5	-	-	10	-	-	-	-	[f]
	US ACGIH 4/2014	-	5	-	-	-	-	-	-	-	[a]
	AB 4/2009	-	5	-	-	-	-	-	-	-	[b]
	BC 7/2013	-	5	-	-	10	-	-	-	-	[g]
		-	3	-	-	-	-	-	-	-	[f]
Diiron trioxide Diiron trioxide, Fe Glass, oxide, chemicals		-	10	-	-	-	-	-	-	-	[d]
	ON 1/2013	-	5	-	-	-	-	-	-	-	[c]
	QC 1/2014	-	5	-	-	-	-	-	-	-	[a]
	US ACGIH 4/2014	-	5	-	-	-	-	-	-	-	[h]
	US ACGIH 4/2014	-	-	1 f/cc	-	-	-	-	-	-	[i]
	AB 4/2009	-	5	1 f/cc	-	-	-	-	-	-	[j]
		-	5	-	-	-	-	-	-	-	[k]
	BC 7/2013	-	5	-	-	-	-	-	-	-	[l]
		-	-	1 f/cc	-	-	-	-	-	-	[e]
	ON 1/2013	-	10	-	-	-	-	-	-	-	[k]
Carbon black		-	5	-	-	-	-	-	-	-	[i]
	QC 1/2014	-	-	1 f/cc	-	-	-	-	-	-	[j]
		-	-	1 f/cc	-	-	-	-	-	-	[j]
	US ACGIH 4/2014	-	10	-	-	-	-	-	-	-	[c]
	AB 4/2009	-	3	-	-	-	-	-	-	-	[i]
	BC 7/2013	-	3.5	-	-	-	-	-	-	-	[e]
Calcium carbonate	ON 1/2013	-	3	-	-	-	-	-	-	-	[i]
	QC 1/2014	-	3.5	-	-	-	-	-	-	-	
	AB 4/2009	-	10	-	-	-	-	-	-	-	[3]
		-	10	-	-	-	-	-	-	-	[c]

[3]Skin sensitization

**Form:** [a]Respirable fraction [b]Respirable [c]Total dust [d]Respirable dust [e]Inhalable [f]Fume [g]Dust [h]Dust and fumes [i]Inhalable fraction. [j]Respirable fibers. [k]Fiber [l]Fiber, total particulate

**Mexico**

Ingredient name	Exposure limits
Aluminium oxide	<b>NOM-010-STPS (Mexico, 9/2000).</b> LMPE-PPT: 10 mg/m <sup>3</sup> 8 hours.
Aluminum potassium fluoride	<b>NOM-010-STPS (Mexico, 9/2000).</b> LMPE-PPT: 2 mg/m <sup>3</sup> 8 hours.
Titanium dioxide	<b>NOM-010-STPS (Mexico, 9/2000).</b> LMPE-CT: 20 mg/m <sup>3</sup> , (as Ti) 15 minutes. LMPE-PPT: 10 mg/m <sup>3</sup> , (as Ti) 8 hours.
Calcium oxide	<b>NOM-010-STPS (Mexico, 9/2000).</b> LMPE-PPT: 2 mg/m <sup>3</sup> 8 hours.
Zinc Oxide	<b>NOM-010-STPS (Mexico, 9/2000).</b> LMPE-PPT: 10 mg/m <sup>3</sup> 8 hours. Form: Powder. LMPE-PPT: 5 mg/m <sup>3</sup> 8 hours. Form: smoke LMPE-CT: 10 mg/m <sup>3</sup> 15 minutes. Form: smoke
Diiron trioxide	<b>NOM-010-STPS (Mexico, 9/2000).</b> LMPE-CT: 10 mg/m <sup>3</sup> , (as Fe) 15 minutes. LMPE-PPT: 5 mg/m <sup>3</sup> , (as Fe) 8 hours.
Glass, oxide, chemicals	<b>ACGIH TLV (United States, 4/2014).</b> TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Inhalable fraction. TWA: 1 f/cc 8 hours. Form: Respirable fibers.

**Appropriate engineering controls**

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**Environmental exposure controls**

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.



## Section 8. Exposure controls/personal protection

### Individual protection measures

- Hygiene measures** : Follow good industrial hygiene practice.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

## Section 9. Physical and chemical properties

### Appearance

- Physical state** : Solid.
- Color** : Variable.
- Odor** : Not applicable.
- Odor threshold** : Not applicable.
- pH** : Not applicable.
- Melting point** : Not available.
- Boiling point** : Not available.
- Flash point** : Not applicable.
- Evaporation rate** : Not applicable.
- Flammability (solid, gas)** : Not available.
- Lower and upper explosive (flammable) limits** : Not applicable.
- Vapor pressure** : Not applicable.
- Vapor density** : Not applicable.
- Relative density** : 0.8 to 3.5 g/cm<sup>3</sup>
- Solubility** : Not available.
- Partition coefficient: n-octanol/water** : Not applicable.
- Auto-ignition temperature** : Not available.
- Decomposition temperature** : Not available.
- Viscosity** : Not applicable.
- Volatility** : Not available.
- VOC (w/w)** : 0 % (w/w)

## Section 10. Stability and reactivity

- Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- Chemical stability** : The product is stable.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- Conditions to avoid** : No specific data.
- Incompatible materials** : Reactive or incompatible with the following materials: oxidizing materials, acids and alkalis.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Aluminum potassium fluoride	LD50 Dermal	Rabbit	>2000 mg/kg	-
Carbon black	LD50 Oral	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>15400 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Titanium dioxide	Skin - Mild irritant	Human	-	72 hours 300 µg Intermittent	-
Zinc Oxide	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-

#### Sensitization

There is no data available.

#### Carcinogenicity

##### Classification

Product/ingredient name	OSHA	IARC	NTP	ACGIH	EPA	NIOSH
Aluminium oxide	-	-	-	A4	-	-
Aluminum potassium fluoride	-	3	-	A4	-	-
Titanium dioxide	-	2B	-	A4	-	+
Diiron trioxide	-	3	-	A4	-	-
Glass, oxide, chemicals	-	3	-	A4	-	-
Carbon black	-	2B	-	A3	-	+

#### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Calcium oxide	Category 3	Not applicable.	Respiratory tract irritation

#### Specific target organ toxicity (repeated exposure)

There is no data available.

#### Aspiration hazard

There is no data available.





## Section 11. Toxicological information

Information on the likely routes of exposure : Inhalation. Ingestion.

### Potential acute health effects

**Eye contact** : No known significant effects or critical hazards.  
**Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : No known significant effects or critical hazards.  
**Ingestion** : No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : No known significant effects or critical hazards.  
**Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : No known significant effects or critical hazards.  
**Ingestion** : No known significant effects or critical hazards.

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

**Potential immediate effects** : No known significant effects or critical hazards.  
**Potential delayed effects** : No known significant effects or critical hazards.

#### Long term exposure

**Potential immediate effects** : No known significant effects or critical hazards.  
**Potential delayed effects** : No known significant effects or critical hazards.

#### Potential chronic health effects

**General** : No known significant effects or critical hazards.  
**Carcinogenicity** : No known significant effects or critical hazards.  
**Mutagenicity** : No known significant effects or critical hazards.  
**Teratogenicity** : No known significant effects or critical hazards.  
**Developmental effects** : No known significant effects or critical hazards.  
**Fertility effects** : No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

There is no data available.

## Section 12. Ecological information

### Toxicity



## Section 12. Ecological information

Product/ingredient name	Result	Species	Exposure
Aluminum potassium fluoride Titanium dioxide	EC50 22.8 mg/L	Crustaceans	48 hours
	Acute EC50 5.83 mg/L Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours
	Acute LC50 3 mg/L Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 5.5 ppm Fresh water	Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
Calcium oxide	Acute LC50 1000 mg/L Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 0.984 mg/L Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours
Zinc Oxide	Chronic NOEC 100 mg/L Fresh water	Fish - Oreochromis niloticus - Juvenile (Fledgling, Hatchling, Weanling)	46 days
Zinc Oxide	Acute EC50 0.042 mg/L Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours
	Acute LC50 98 µg/L Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 1.1 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 0.017 mg/L Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours

### Persistence and degradability

There is no data available.

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Titanium dioxide	-	352	low
Calcium oxide	-	2.34	low
Zinc Oxide	-	60960	high

### Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

	DOT	TDG / NOM-003-SCT	IMDG	IATA
<b>UN number</b>	Not regulated.	Not regulated.	Not regulated.	Not regulated.
<b>UN proper shipping name</b>	-	-	-	-



## Section 14. Transport information

Transport hazard class(es)	-	-	-	-
Packing group	-	-	-	-
Environmental hazards	No.	No.	No.	No.
Additional information	-	-	-	-

AERG : Not applicable.

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** : Not available.

## Section 15. Regulatory information

**U.S. Federal regulations** : **United States inventory (TSCA 8b):** All components are listed or exempted.  
**Clean Water Act (CWA) 307:** Zinc Oxide

**Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Listed

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

### SARA 302/304

#### Composition/information on ingredients

No products were found.

**SARA 304 RQ** : Not applicable.

### SARA 311/312

**Classification** : Not applicable.

#### Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Titanium dioxide	1 - 5	No.	No.	No.	No.	Yes.
Calcium oxide	1 - 5	No.	No.	No.	Yes.	No.
Carbon black	0.01 - 0.3	No.	No.	No.	No.	Yes.



## Section 15. Regulatory information

### SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	Aluminium oxide	1344-28-1	60 - 100
	Zinc Oxide	1314-13-2	1 - 5
Supplier notification	Aluminium oxide	1344-28-1	60 - 100
	Zinc Oxide	1314-13-2	1 - 5

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

### State regulations

- Massachusetts** : The following components are listed: Aluminium oxide; Titanium dioxide; Calcium oxide; Zinc Oxide; Diiron trioxide; Glass, oxide, chemicals
- New York** : None of the components are listed.
- New Jersey** : The following components are listed: Aluminium oxide; Aluminum potassium fluoride; Titanium dioxide; Calcium oxide; Zinc Oxide; Diiron trioxide; Carbon black
- Pennsylvania** : The following components are listed: Aluminium oxide; Aluminum potassium fluoride; Titanium dioxide; Calcium oxide; Zinc Oxide; Diiron trioxide; Carbon black

### California Prop. 65

**WARNING:** This product contains a chemical known to the State of California to cause cancer.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Titanium dioxide	Yes.	No.	No.	No.
Carbon black	Yes.	No.	No.	No.

### Canada

#### Canadian lists

- Canadian NPRI** : The following components are listed: Aluminium oxide; Zinc (and its compounds)
- CEPA Toxic substances** : The following components are listed: Aluminum potassium fluoride
- Canada inventory** : All components are listed or exempted.

### International lists

#### National inventory

- Australia** : Not determined.
- China** : Not determined.
- Europe** : All components are listed or exempted.
- Japan** : Not determined.
- Malaysia** : Not determined.
- New Zealand** : Not determined.
- Philippines** : Not determined.
- Republic of Korea** : All components are listed or exempted.
- Taiwan** : Not determined.

## Section 16. Other information

### History

Date of issue mm/dd/yyyy : 05/30/2015  
Version : 1  
Prepared by : KMK Regulatory Services Inc.

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

