

Non-Woven Abrasives

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1. Product and Company Identification

Product Identifier

Trade Name: NON-WOVEN ABRASIVES
This safety data sheet pertains to the following products:
Surface Conditioning Discs (quick change, hook & loop, flap), Stars, Belts
Satin Finishing Discs (quick change, mounted), Wheels (for angle grinders, duplex, disc, goblet)
Satin Finishing Flap Brushes (mounted and unmounted)
Satin Finishing Stars, Hand Pads and Rolls
Convolute Wheels
Unitized Discs and Wheels
Stripping Discs and Wheels

Relevant identified uses of the substance or mixture and uses advised against:

General Use: Grinding and sanding of different kinds of materials.
For industrial purposes only.

Details of the supplier of the Safety Data Sheet

Company Name: Superior Abrasives, LLC
1620 Fieldstone Way
Vandalia, Ohio 45377
USA
www.superiorabrasives.com
email: SDS@superiorabrasives.com
Telephone: 1-800-235-9123
Local Tel: 937-278-9123
Fax: 937-278-7581

2. Hazards Identification

Emergency overview

Appearance: Form: solid
Color: varying colors
Odor: No data available
Classification: Eye Irritation 2A; Carcinogenicity 1A; Toxic to Reproduction (Lactation):
Specific Target Organ Toxicity (repeated exposure) 1; Aquatic Toxicity - chronic 3

Hazard symbols:



Signal word: **Danger**
Hazard statements: Causes serious eye irritation.
May cause cancer.
May cause harm to breast-fed children.
Causes damage to organs through prolonged or repeated exposure.
Harmful to aquatic life with long lasting effects.
Precautionary statements: Obtain special instructions before use.
Do not breathe dust/fume/gas/mist/vapors/spray.
Avoid contact during pregnancy/while nursing.
Wash hands and face thoroughly after handling.

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Do not eat, drink or smoke when using this product.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.
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.
If eye irritation persists: Get medical advice/attention.
Store locked up.
Dispose of contents/container to hazardous or special waste collection point.

additional information:

The hazard identification is based on a formalistic procedure as the hazard statements of the ingredients are summarized under section 3. This does not correspond to the hazardousness of the product itself. A greater hazard, in most cases, is the exposure to the dust/fumes from the material or paint/coatings being ground. Most of the dust generated during grinding is from the base material being ground and the potential hazard from this exposure must be evaluated. This dust may present a fire or dust explosion hazard and may present a serious health hazard.

Regulatory status

This material is considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200) and SIMDUT in Canada.

Hazards not otherwise classified

Processing, e.g. by cutting, sawing or grinding, can produce particles and dust.
Inhalation of dust may cause irritation of the respiratory system.
Dust may irritate eyes.
See section 11: Toxicological information

3. Composition / Information on Ingredients

Chemical Characterisation:

Relevant ingredients:

<u>CAS No.</u>	<u>Designation</u>	<u>Content</u>	<u>Classification</u>
CAS -	Nylon Fiber	< 80%	Not applicable
CAS 1344-28-1	Aluminium oxide	< 70%	Not applicable
CAS 409-21-2	Silicon carbide	< 70%	Not applicable
CAS -	Cloth	< 60%	Not applicable
CAS -	Synthetic resin, polymerized	< 60%	Not applicable
CAS 1314-23-4	Zirconium dioxide	< 30%	Not applicable
CAS -	Adhesive, cured	< 30%	Not applicable
CAS 60304-36-1	Aluminum potassium fluoride	< 25%	Acute Toxicity 4 (inhalative). Eye Irritation 2A. Toxic to Reproduction (Lactation). Specific Target Organ Toxicity (Repeated Exposure) 1. Aquatic Toxicity - Chronic 3.
CAS 471-34-1	Calcium carbonate	< 25%	Not applicable
CAS 13775-53-6	Trisodium hexafluoroaluminate (cryolite)	< 20%	Acute Toxicity 4 (inhalative). Toxic to Reproduction (Lactation). Specific Target Organ Toxicity (Repeated Exposure) 1. Aquatic Toxicity - Chronic 2.
CAS 14075-53-7	Potassium tetrafluoroborate	< 20%	Not applicable
CAS 1332-58-7	Kaolin	< 15%	Not applicable
CAS 13463-67-7	Titanium dioxide	< 5%	Carcinogenicity 2
CAS 1345-25-1	Iron(II) oxide	< 5%	Not applicable
CAS -	Aluminum Silicates	< 5%	Not applicable

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CAS 13983-17-0	Wollastonite	< 5%	Not applicable
CAS 7631-86-9	Silicon dioxide	< 2%	Not applicable
CAS 26761-40-0	Diisodecylphthalate	< 1.5%	Not applicable
CAS 9002-86-2	Polyvinyl chloride	< 1.5%	Not applicable
CAS -	Pigments	< 1%	Not applicable
CAS 8042-47-5	White mineral oil (petroleum)	< 1%	Not applicable
CAS 1333-86-4	Carbon black	<0.5%	Not applicable
CAS 1309-48-4	Magnesium oxide	<0.5%	Not applicable
CAS 1305-78-8	Calcium oxide	<0.5%	Skin Irritation 2. Eye Damage 1. Specific Target Organ Toxicity (Single Exposure) 3.
CAS 14808-60-7	Quartz (SiO ₂)	<0.5%	Carcinogenicity 1A
CAS 12055-23-1	Hafnium dioxide	<0.4%	Not applicable
CAS 64742-52-5	Distillates (petroleum), hydrotreated heavy naphthenic	<0.2%	Not applicable

Additional information: The ingredients are embedded in the product.

4. First Aid Measures

In case of inhalation: Provide fresh air. If you feel unwell, seek medical advice.

Following skin contact: Remove residue with soap and water. In case of skin reactions, consult a physician.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.

After swallowing: Rinse mouth with water. Give water to drink in small sips. If you feel unwell, seek medical advice.

Most important symptoms and effects, both acute and delayed

Causes serious eye irritation. Causes damage to organs through prolonged or repeated exposure.

Information to physician Treat Symptomatically.

5. Fire Fighting Measures

Flash point/Flash point range: No data available

Auto-ignition Temperature: No data available

Suitable extinguishing media: Product is non-combustible. Extinguishing materials should therefore be selected according to surroundings.

Specific hazards arising from the chemical:

At temperatures above 482°F (250°C) hazardous decomposition products may be generated.

Protective equipment and precautions for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

Do not allow fire water to penetrate into surface or ground water.

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6. Accidental Release Measures

Personal precautions:

- Avoid exposure. Avoid generation of dust. Do not inhale substance.
- In case of heating: Development of gas/vapor possible.
- Provide adequate ventilation. Wear appropriate protective equipment
- Avoid contact with the substance. Keep unprotected people away.

Environmental precautions:

- Do not allow to penetrate into soil, waterbodies or drains.
- In case of release, notify competent authorities.

Methods for clean up:

- Take up mechanically, placing in appropriate containers for disposal

7. Handling and Storage

Handling

Advice on safe handling:

- Provide adequate ventilation, and local exhaust as needed. Avoid generation of dust. In case of heating: Development of gas/vapor possible. Do not inhale substance. Wear appropriate protective equipment.
- Avoid contact with the substance. Obtain special instructions before use. Work place should be equipped with a shower and an eye rinsing apparatus.

Storage

Requirements for storerooms and containers:

- Keep container tightly closed and dry.
- Keep in cool, well-ventilated place.

Hints on joint storage:

- Do not store together with oxidizing agents or acids.
- Do not store together with food.

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8. Exposure Control / Personal Protection

Exposure guidelines

Occupational exposure limit values:

<u>CAS NO.</u>	<u>Designation</u>	<u>Type</u>	<u>Limit Value</u>
1344-28-1	Aluminium oxide	Canada, Alberta: OEL 8 hour	10 mg/m ³
		Canada, Quebec: VEMP	10 mg/m ³ (inhalable fraction)
409-21-2	Silicon carbide	USA: OSHA: TWA	15 mg/m ³ (inhalable fraction)
		USA: OSHA: TWA	5mg/m ³ (respirable fraction)
		Canada, Alberta: OEL 8 hour	0.1 fibers/cm ³ (fibers, inhalable fraction)
		Canada, Alberta: OEL 8 hour	10mg/m ³
			(contains no fibers, inhalable fraction)
		Canada, Alberta: OEL 8 hour	3 mg/m ³
			(contains no fibers, respirable fraction)
		Canada BC: OEL TWA	0.1 fibers/cm ³ (fibers, inhalable fraction)
		Canada BC: OEL TWA	10 mg/m ³
			(Contains no fibers, inhalable fraction)
		Canada BC; OEL TWA	3mg/m ³
			(Contains no fibers, respirable fraction)
	Canada Ontario; OEL TWA	0.1 fibers/cm ³ (fibers, inhalable fraction)	
	Canada Ontario; OEL TWA	10 mg/m ³	
		(Contains no fibers, inhalable fraction)	
	Canada, Ontario: OEL TWA	3mg/m ³	
		(Contains no fibers, respirable fraction)	
	Canada, Quebec: VEMP	10 mg/m ³	
		(Contains no fibers, inhalable fraction)	
	USA: ACGIH: TWA	0.1 fibers/cm ³ (fibers, inhalable fraction)	
	USA: ACGIH: TWA	10mg/m ³ (inhalable fraction)	
	USA: ACGIH: TWA	3 mg/m ³ (respirable fraction)	
	USA: NIOSH: TWA	10 mg/m ³ (inhalable fraction)	
	USA: NIOSH: TWA	5 mg/m ³ (respirable fraction)	
	USA: OSHA: TWA	15 mg/m ³ (inhalable fraction)	
	USA: OSHA: TWA	5 mg/m ³ (respirable fraction)	
1314-23-4	Zirconium dioxide	Canada, Alberta: OEL 15 min	10 mg/m ³
		Canada, Alberta: OEL 8 hour	5 mg/m ³
		Canada, BC OEL STEL	10 mg/m ³
		Canada, BC OEL TWA	5 mg/m ³
		Canada Quebec: VECD	10 mg/m ³ (Zirconium and compounds, calculated as Zr)
		Canada Quebec: VEMP	5 mg/m ³ (Zirconium and compounds, calculated as Zr)
		USA: ACGIH: STEL	10 mg/m ³ (calculated as Zr)
		USA: ACGIH: TWA	5 mg/m ³ (calculated as Zr)
		USA: NIOSH: STEL	10 mg/m ³ (calculated as Zr)
		USA: NIOSH: TWA	5 mg/m ³ (calculated as Zr)
USA: OSHA: TWA	5 mg/m ³ (calculated as Zr)		
60304-36-1	Aluminum potassium fluoride	Canada, Alberta: OEL 8 hour	2.5 mg/m ³ (calculated as F)
		Canada, BC: OEL TWA	2.5 mg/m ³ (calculated as F)
		Canada Quebec: VEMP	2.5 mg/m ³ (calculated as F)
		USA: ACGIH: TWA	2.5 mg/m ³ (Fluorides, calculated as F)
		USA: NIOSH: TWA	2.5 mg/m ³ (calculated as F)
		USA: OSHA: TWA	2.5 mg/m ³ (calculated as F)

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471-34-1	Calcium carbonate	Canada, Alberta: OEL 8 hour Canada, BC OEL STEL Canada, BC: OEL TWA Canada Quebec: VEMP USA: NIOSH: TWA USA: NIOSH: TWA USA: OSHA: TWA USA: OSHA: TWA	10 mg/m ³ 20 mg/m ³ (Calcium carbonate incl. Limestone, Marble) 10 mg/m ³ (Calcium carbonate incl. Limestone, Marble) 10 mg/m ³ (inhalable fraction) 10 mg/m ³ (inhalable fraction) 5 mg/m ³ (respirable fraction) 15 mg/m ³ (inhalable fraction) 5 mg/m ³ (respirable fraction)
13775-53-6	Trisodium hexafluoroaluminate (cryolite)	Canada, Alberta: OEL 8 hour Canada, BC: OEL TWA Canada Quebec: VEMP USA: ACGIH: TWA USA: NIOSH: TWA USA: OSHA: TWA	2.5 mg/m ³ (calculated as F) 2.5 mg/m ³ (calculated as F) 2.5 mg/m ³ (calculated as F) 2.5 mg/m ³ (Fluorides, calculated as F) 2.5 mg/m ³ (calculated as F) 2.5 mg/m ³ (calculated as F)
14075-53-7	Potassium tetrafluoroborate	Canada, Alberta: OEL 8 hour Canada, BC: OEL TWA Canada Quebec: VEMP USA: ACGIH: TWA USA: NIOSH: TWA USA: OSHA: TWA	2.5 mg/m ³ (calculated as F) 2.5 mg/m ³ (calculated as F) 2.5 mg/m ³ (calculated as F) 2.5 mg/m ³ (Fluorides, calculated as F) 2.5 mg/m ³ (calculated as F) 2.5 mg/m ³ (calculated as F)
1332-58-7	Kaolin	Canada, Alberta: OEL 8 hour Canada, BC: OEL TWA Canada Quebec: VEMP USA: ACGIH: TWA USA: NIOSH: TWA USA: NIOSH: TWA USA: OSHA: TWA USA: OSHA: TWA	2 mg/m ³ 2 mg/m ³ 5 mg/m ³ 2 mg/m ³ respirable fraction (particulate matter containing no asbestos and <1% crystalline silica) 10 mg/m ³ (inhalable fraction) 5 mg/m ³ (respirable fraction) 15 mg/m ³ (inhalable fraction) 5 mg/m ³ (respirable fraction)
13463-67-7	Titanium dioxide	Canada, Alberta: OEL 8 hour Canada, BC: OEL TWA Canada, BC: OEL TWA Canada, Quebec: VEMP USA: ACGIH: TWA USA: OSHA: TWA	10 mg/m ³ 10 mg/m ³ 3 mg/m ³ (respirable fraction) 10 mg/m ³ (inhalable fraction) 10 mg/m ³ 15 mg/m ³
13983-17-0	Wollastonite	Canada, Quebec: VEMP Canada, Quebec: VEMP	10 mg/m ³ (inhalable fraction) 5 mg/m ³ (respirable fraction)
7631-86-9	Silicon dioxide	USA: NIOSH: TWA USA: OSHA: TWA USA: OSHA: TWA	6 mg/m ³ 20 mppcf 80 mg/m ³ total dust
26761-40-0	Diisodecylphthalate	Canada, Ontario: OEL TWA	5 mg/m ³
9002-86-2	Polyvinyl chloride	Canada, BC: OEL TWA USA: ACGIH: TWA	1 mg/m ³ 1 mg/m ³ (respirable fraction)

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<p>1333-86-4 Carbon Black</p>	<p>Canada Alberta: OEL 8 hour Canada, BC: OEL TWA Canada, Quebec: VEMP USA: ACGIH: TWA USA: NIOSH: TWA</p> <p>USA: NIOSH: TWA USA: OSHA: TWA</p>	<p>3.5 mg/m³ 3 mg/m³ 3.5 mg/m³ 3 mg/m³ (inhalable fraction) 0.1 mg PAHs/m³ Carbon black in presence of polycyclic aromatic hydrocarbons (PAHs) 3.5 mg/m³ 3.5 mg/m³</p>
<p>1309-48-4 Magnesium oxide</p>	<p>Canada, Alberta: OEL 8 hours Canada, BC: OEL STEL Canada, BC: OEL TWA Canada, Quebec: VEMP USA: ACGIH; TWA USA: OSHA: TWA</p>	<p>10 mg/m³ 10 mg/m³ respirable fraction, Smoke and Dusts 3 mg/m³ respirable fraction, Smoke and Dusts 10 mg/m³ 10 mg/m³ (inhalable fraction) 15 mg/m³</p>
<p>1305-78-8 Calcium oxide</p>	<p>Canada, Alberta: OEL 8 hours Canada, BC: OEL TWA Canada, Quebec: VEMP USA: ACGIH; TWA USA: NIOSH: TWA USA: OSHA: TWA</p>	<p>2 mg/m³ 2 mg/m³ 2 mg/m³ 2 mg/m³ 2 mg/m³ 5 mg/m³</p>
<p>14808-60-7 Quartz (SiO₂)</p>	<p>Canada Alberta: OEL 8 hour Canada, BC: OEL TWA Canada, Ontario: OEL TWA Canada, Quebec: VEMP USA: ACGIH: TWA USA: NIOSH: TWA USA: OSHA: TWA</p> <p>USA: OSHA : TWA USA OSHA: TWA</p>	<p>0.025 mg/m³ 0.025 mg/m³ 0.1 mg/m³ (respirable fraction) 0.1 mg/m³ (respirable fraction) 0.025 mg/m³ (respirable fraction) 0.05 mg/m³ (respirable fraction) 10 mg/m³ /% SiO₂+2 (respirable fraction) 250 mppcf/% SiO₂+5 (fine dust) 30 mg/m³ /% SiO₂+2 (inhalable fraction)</p>

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Biological limit values:

CAS NO.	Designation	Type	Limit Value	Parameter	Sampling
60304-36-1	Aluminum potassium fluoride	USA: ACGIH-BEI, blood	3 mg/L	Fluorides	end of exposure or end of shift
		USA: ACGIH-BEI, urine	2 mg/L	Fluorides	prior to shift
14075-53-7	Potassium tetrafluoroborate	USA: ACGIH-BEI, blood	3 mg/L	Fluorides	end of exposure or end of shift
		USA: ACGIH-BEI, urine	2 mg/L	Fluorides	prior to shift
13775-53-6	Trisodium hexafluoroaluminate (cryolite)	USA: ACGIH-BEI, blood	3 mg/L	Fluorides	end of exposure or end of shift
		USA: ACGIH-BEI, urine	2 mg/L	Fluorides	prior to shift

Engineering controls

Provide good ventilation and/or an exhaust system in the work area.

Technical measures and the application of suitable work processes have priority over personal protection equipment.

In case of development of vapors or dust: The use of a local exhaust ventilation is recommended.

Also see information in section 7, storage

Personal protection equipment (PPE)

Eye/face protection: Tightly sealed goggles according to OSHA Standard-29 CFR: 1910.133 or ANSI Z87.1-2010.

Skin protection: Wear suitable protective clothing and shoes.

Respiratory protection: Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded.

Use appropriate respiratory protection.:

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

General hygiene considerations: Do not inhale substance.

Avoid contact with skin and eyes.

When using do not eat, drink or smoke. Change contaminated clothing.

Wash hands before breaks and after work.

Work place should be equipped with a shower and an eye rinsing apparatus.

Obtain special instructions before use.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance:	Form: Solid Color: varying colors
Odor:	No data available
Odor threshold:	No data available
pH value:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash point/flash point range:	No data available
Evaporation rate:	No data available
Flammability:	No data available
Explosion limits:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Density:	No data available
Solubility:	No data available
Partition coefficient: n-octanol/water:	No data available

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auto-ignition temperature: No data available
 Thermal decomposition: No data available
 Additional information: No data available

10. Stability and Reactivity

Reactivity: No data available
 Chemical Stability: Stable under recommended storage conditions.
 Possibility of hazardous reactions: No hazardous reaction when handled and stored according to provisions.
 Conditions to avoid: No data available
 Incompatible materials: Oxidizing agents, acids.
 Hazardous decomposition products: At temperatures above 482°F (250°C) hazardous decomposition products may be generated.
 Thermal decomposition: No data available

11. Toxicological Information

Toxicological tests

Toxicological effects: The statements are derived from the properties of the single components. No Toxicological data is available for the product as such.
 Acute toxicity (oral): Lack of data.
 Acute toxicity (dermal): Lack of data.
 Acute toxicity (inhalative): Lack of data
 Skin corrosion/irritation: Lack of data.
 Serious eye damage/irritation: Eye irritation 2A = Causes serious eye irritation.
 Sensitisation to the respiratory tract: Lack of data.
 Skin sensitisation: Lack of data.
 Germ cell mutagenicity/Genotoxicity: Lack of data
 Carcinogenicity: Carcinogenicity 1A = May cause cancer.
 Reproductive toxicity: Lack of data
 Effects on or via lactation: Toxic to reproduction (lactation) = May cause harm to breast-fed children.
 Specific target organ toxicity (single exposure): Lack of data.
 Specific target organ toxicity (repeated exposure): 1 = Causes damage to organs through prolonged or repeated exposure.
 Aspiration hazard: Lack of data.

Other information: Information about Aluminum potassium fluoride.
 LD50, Rat, oral: >2000 mg/kg
 LC50, Rat, inhalative: > 3.4 mg/L/h
 LD50, Rabbit, dermal: >2000 mg/kg

Information about Trisodium hexafluoroaluminate (cryolite):
 LD50, Rat, oral: >5000 mg/kg
 LC50, Rat, inhalative: > 4.47 mg/L/4h
 LD50, Rabbit, dermal: >2100 mg/kg

For carcinogenic effects:

Information about Titanium dioxide:
 IARC Rating: Group 2B
 OSHA Carcinogen: not listed
 NTP Rating: not listed

Information about Wollastonite:
 IARC Rating: Group 3
 OSHA Carcinogen: not listed
 NTP Rating: not listed

Information about Silicon dioxide:

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IARC Rating: Group 3
OSHA Carcinogen: not listed
NTP Rating: not listed

Information about Polyvinyl chloride
IARC Rating: Group 3
OSHA Carcinogen: not listed
NTP Rating: not listed

Information about Carbon:
IARC Rating: Group 2B
OSHA Carcinogen: not listed
NTP Rating: not listed

Information about Quartz (SiO₂):
IARC Rating: Group 1
OSHA Carcinogen: not listed
NTP Rating: listed

12. Ecological Information

Ecotoxicity

Aquatic toxicity: Harmful to aquatic life with long lasting effects.
Information about Trisodium hexafluoroaluminate (cryolite);
Algae toxicity:
EC50 Pseudokirchneriella subcapitata (green algae): 8.8 mg/L/72h (OECD 201)
Daphnia toxicity:
EC50 Daphnia magna (Big water flea): 156 mg/L/48h (OECD 202)
Fish toxicity:
LC50 Brachydanio rerio (zebra-fish): 99 mg/L/96h (OECD 203)

Mobility in soil

No data available

Persistence and degradability

Further details: No data available

Additional ecological information

General information: Do not allow to enter into ground-water, surface water or drains.

13. Disposal Considerations

Product

Recommendation: Dispose of waste according to applicable legislation.

Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation. Packing can be recycled or disposed of.

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14. Transport Information

USA: Department of Transportation (DOT)

Proper shipping name: Not restricted

Canada: Transportation of Dangerous Goods (TDG)

Shipping name: Not restricted

Sea transport (IMDG)

Proper shipping name: Not restricted

Marine pollutant: No

Air transport (IATA)

Proper shipping name: Not restricted

Further information

Only dangerous if carried on tank-ships.

15. Regulatory Information

National regulations - Canada

No data available

National regulations - U.S. Federal Regulations

Product: This product is an article as defined by TSCA regulations, and is exempt from TSCA inventory listing requirements.

Aluminum oxide: Other Environmental Laws:
SARA Title III Section 313, Toxic Release: Conc. 1.0% / Threshold Standard

NIOSH Recommendations:
Occupational Health Guideline: 0021

Silicon carbide: NIOSH Recommendations:
Occupational Health Guideline: 0555

Kaolin: NIOSH Recommendations:
Occupational Health Guideline: 0364

Titanium dioxide: Carcinogen Status:
IARC Rating: Group 2B
OSHA Carcinogen: not listed
NTP Rating: not listed
NIOSH Recommendations:
Occupational Health Guideline: 0617

Wollastonite: Carcinogen Status:
IARC Rating: Group 3
OSHA Carcinogen: not listed
NTP Rating: not listed

Silicon dioxide: Carcinogen Status:
IARC Rating: Group 3
OSHA Carcinogen: not listed
NTP Rating: not listed
NIOSH Recommendations:
Occupational Health Guideline: 0552

Polyvinyl chloride: Carcinogen Status:
IARC Rating: Group 3
OSHA Carcinogen: not listed
NTP Rating: not listed

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Carbon black: Carcinogen Status:
IARC Rating: Group 2B
OSHA Carcinogen: not listed
NTP Rating: not listed
NIOSH Recommendations:
Occupational Health Guideline: 0102

Magnesium oxide: NIOSH Recommendations:
Occupational Health Guideline: 0374

Calcium oxide: NIOSH Recommendations:
Occupational Health Guideline: 0093

Quartz (SiO₂): Carcinogen Status:
IARC Rating: Group 1
OSHA Carcinogen: not listed
NTP Rating: not listed
NIOSH Recommendations:
Occupational Health Guideline: 0553

National regulations - U.S. State Regulations

Aluminum Oxide: Delaware Air Quality Management List:
DRQ: 100 - RQ State: State requirement differs from Federal
Massachusetts Haz. Substance codes: F9
Minnesota Haz. Substance:
Codes: A - Ratings: 10.16 - Status: Title III. TRI.
New Jersey RTK Hazardous Substance:
DOT: - - Sub No.: 2891 - TPQ:
Pennsylvania Haz. Substance code: E
Washington Air Contaminant:
TWA: 10 mg

Zirconium dioxide: Massachusetts Haz. Substance codes: 2

Titanium dioxide: California Proposition 65: cancer
Rhode Island HSL: listed

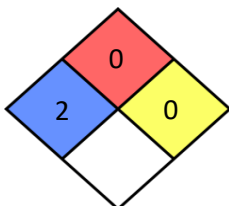
Diisodecylphthalate: California Proposition 65: developmental
Rhode Island HSL: listed

Carbon black: California Proposition 65: cancer
Rhode Island HSL: listed

Quartz (SiO₂): California Proposition 65: cancer
Rhode Island HSL: listed

16. Other Information

Hazard rating systems:



NFPA Hazard Rating:
Health: 2 (Moderate)
Fire: 0 (Minimal)
Reactivity: 0 (Minimal)
HMIS Version III Rating:
Health: 2 (Moderate) - Chronic effects
Flammability: 0 (Minimal)
Physical Hazard: 0 (Minimal)
Personal Protection: X = Consult your supervisor

HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	X

Reason of Change: None

Date of Revision: None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products.