



Safety Data Sheet

According to Canadian Hazardous Products Regulations and WHMIS 2015

Initial preparation date: 08.07.2019

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Resin Bonded Abrasives

SECTION 1: Identification

Product identifier

Product name: Resin Bonded Abrasives

Additional information: This product is not hazardous as shipped and sold. However, during the grinding process, hazardous substances may be released and made available for exposure. The Hazard Classification in Section 2 and corresponding Label Elements are applicable to this product when used for grinding, sanding, mechanical abrasion or any other fabrication process that compromises the integrity of the disc.

Recommended use of the product and restriction on use

Relevant identified uses: Coated abrasives for sanding of material.

Uses advised against: Any use other than described above.

Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details

Manufacturer:

United States

CGW Abrasives
7525 N Oak Park Ave
Niles, IL 60714
800-447-3731
sales@cgwcamel.com

Emergency telephone number:

United States

Emergency Phone Number
800-447-3731 (24/7)

SECTION 2: Hazard identification

GHS classification:

Skin irritation, category 2

Eye irritation, category 2A

Reproductive toxicity. Effects on or via lactation

Specific target organ toxicity - single exposure, category 3, respiratory tract irritation

Specific target organ toxicity - repeated exposure, category 1

Acute toxicity (inhalation), category 4

Label elements

Hazard pictograms:

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Signal word: Danger

Hazard statements:

- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H362 May cause harm to breast-fed children
- H335 May cause respiratory irritation
- H372 Causes damage to organs (liver, bones) through prolonged or repeated exposure.
- H332 Harmful if inhaled

Precautionary statements:

- P264 Wash hands thoroughly after handling
- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P260 Do not breathe dust/fume/gas/mist/vapours/spray
- P263 Avoid contact during pregnancy/while nursing
- P270 Do not eat, drink or smoke when using this product
- P271 Use only outdoors or in a well-ventilated area
- P202 Do not handle until all safety precautions have been read and understood
- P302+P352 IF ON SKIN: Wash with plenty of water/soap
- P321 Specific treatment (see supplemental first aid instructions on this label)
- P332+P313 If skin irritation occurs: Get medical advice/attention
- P362+P364 Take off contaminated clothing and wash it before reuse
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P337+P313 If eye irritation persists: Get medical advice/attention
- P308+P313 IF exposed or concerned: Get medical advice/attention
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing
- P312 Call a POISON CENTER/doctor if you feel unwell
- P403+P233 Store in a well-ventilated place. Keep container tightly closed
- P405 Store locked up
- P501 Dispose of contents/container in accordance with local regulations.

Hazards not otherwise classified:

- Prolonged exposure to metal fume or dust may cause Metal Fume Fever.
- Finely dispersed particles may form explosive mixtures in air.
- Exposure to airborne silica of respirable size can cause Silicosis, an incurable lung disease that can lead to disability and death; Lung cancer; Chronic obstructive pulmonary disease (COPD); and Kidney disease.
- Although not readily available, crystalline silica has been included in Section 3 (composition) and Section 8 (occupational exposure limits).

SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: 1344-28-1	Aluminum Oxide	40-95

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CAS number: 409-21-2	Silicon carbide	40-95
CAS number: 60304-36-1	Aluminum potassium fluoride	5-40
CAS number: 471-34-1	Calcium Carbonate	2-30
CAS number: 15096-52-3	Trisodium hexafluoroaluminate	2-30
CAS number: 13775-52-5	Tripotassium hexafluoroaluminate	<25
CAS number: 65997-17-3	Glass, oxide, chemicals	<13
CAS number: 1314-23-4	Zirconium dioxide	40-95
CAS number: 14808-60-7	Silica, crystalline quartz	<13

Additional Information:

The concentration range for product ingredients represents the expected variable composition of the product as supplied and the variable composition of ingredients released during use. For more information about the composition for sampling purposes, contact CGW Abrasives.

SECTION 4: First-aid measures

Description of first-aid measures

General notes:

Show this Safety Data Sheet to the doctor in attendance.

After inhalation:

If inhaled, remove person to fresh air and place in a position comfortable for breathing. Keep person at rest. If breathing is difficult, administer oxygen. If breathing has stopped, provide artificial respiration. If experiencing respiratory symptoms, seek medical advice/attention.

After skin contact:

Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. Launder contaminated clothing before reuse. If symptoms develop or persist, seek medical advice/attention.

After eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present to do so. Protect unexposed eye. Continue rinsing. Get medical attention if irritation develops or persists.

After ingestion:

Not a likely of exposure.

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

INHALATION of airborne dusts and fumes may cause respiratory irritation. Symptoms include cough, breathing difficulties, inflammation of the mucous membranes lining the respiratory tract and nose and throat pain. Excessive inhalation of fumes of freshly formed metal oxide particles may cause a flu-like

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illness called Metal Fume Fever.

SKIN CONTACT may result in skin irritation. Symptoms include redness, inflammation and itching.

EYE CONTACT with airborne dust and fume may cause serious eye irritation. Symptoms include: redness, tearing, burning and inflammation.

The Acute Effects described below are applicable to this product when used for grinding, sanding, mechanical abrasion or any other fabrication process that releases hazardous dust or fume.

Delayed symptoms and effects:

The Delayed Effects described below are applicable to this product when used for grinding, sanding, mechanical abrasion or any other fabrication process that releases hazardous dust or fume.

Chronic exposure to Aluminum Oxide and Zirconium Oxide may cause lung damage; resulting in chronic bronchitis, COPD and pulmonary fibrosis.

Chronic exposure to fluoride and fluoride compounds may cause damage to teeth, bones (fluorosis) and lungs. Fluorosis is caused by a high fluoride concentration in the body. This causes the bones to harden and become less elastic, resulting in increased fractures, joint pain and immobility.

Chronic exposure to airborne silica of respirable size can cause Silicosis, an incurable lung disease that can lead to disability and death; Lung cancer; Chronic obstructive pulmonary disease (COPD); and Kidney disease.

Maternal exposure may cause harm to breast-fed children.

Immediate medical attention and special treatment

Specific treatment:

If concerned or not feeling well, seek medical attention/advice.

Notes for the doctor:

Treat symptomatically.

SECTION 5: Fire-fighting measures

Extinguishing media

Suitable extinguishing media:

Alcohol- resistant foam, Dry chemical or Carbon dioxide

Unsuitable extinguishing media:

Do not use water jet as an extinguisher.

Specific hazards during fire-fighting:

Thermal decomposition may lead to the release of irritating and toxic substances, including: Carbon Oxides, Aluminum Oxides, Zirconium Oxides, Potassium Oxides, Silicon Oxides, Calcium Oxides, Sodium Oxides and Hydrogen Fluoride.

Special protective equipment for firefighters:

Self-contained MSHA/NIOSH approved respiratory protection and full protective clothing should be worn when fumes and/or smoke from fire are present.

Special precautions:

This product is not combustible; however, consideration must be given to the potential fire or explosion hazards from the base material being processed. Many materials create flammable or explosive dusts or turnings when machined or ground.

SECTION 6: Accidental release measures

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Personal precautions, protective equipment and emergency procedures:

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

Wear appropriate respirator and protective clothing (see Section 8) as needed to avoid eye contact and inhalation of dust.

Environmental precautions:

Prevent entry into drains, sewer and waterways.

Do not discharge into the environment.

Methods and material for containment and cleaning up:

Carefully sweep up or gather dry material, avoiding the creation of airborne dust. Place recovered product in appropriate container for future disposal. Dispose of in accordance with all applicable regulations (see Section 13).

Reference to other sections:

Section 8: Personal Protective Equipment

Section 13: Disposal

SECTION 7: Handling and storage

Precautions for safe handling:

The Precautions for Safe Handling described below are applicable to this product when used for grinding, sanding, mechanical abrasion or any other fabrication process that releases hazardous dust or fume. Wear recommended personal protective equipment (see Section 8). Do not contaminate water, food, or feed by storage or disposal. Use only with adequate ventilation. Do not breathe dust or fume. Avoid contact with eyes, skin and clothing. Keep away from hot surfaces, open flame and sources of ignition. Do not eat, drink or smoke while using. Wash thoroughly after handling. Do not allow contaminated clothing outside of the workplace. Launder contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities:

Store in a cool, dry place and out of direct sunlight.

Store at Temperatures, 15°C--27°C and Humidity, 40%- 50%.

Store away from hot surfaces (e.g. heater, radiator), open flame, ignition sources and incompatible materials. See Section 10 for incompatibles.

Do not place the materials on the ground or concrete floor.

SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
Alberta	Aluminum Oxide	1344-28-1	8-Hour TWA: 10 mg/m ³ (Total dust)
	Aluminum Oxide	1344-28-1	8-Hour TWA: 3 mg/m ³ (Respirable)
	Silicon carbide	409-21-2	8-Hour TWA: 10 mg/m ³ ((Non-fibrous, total particulate))
	Silicon carbide	409-21-2	8-Hour TWA: 3 mg/m ³ ((Non-fibrous, respirable particulate))

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Silicon carbide	409-21-2	8-Hour TWA: 0.1 mg/m ³ ((Fibrous, including whiskers))
	Aluminum potassium fluoride	60304-36-1	8-Hour TWA: 2.5 mg/m ³
	Trisodium hexafluoroaluminate	15096-52-3	8-Hour TWA: 2.5 mg/m ³ (Fluorides, as F)
	Tripotassium hexafluoroaluminate	13775-52-5	8-Hour TWA: 2.5 mg/m ³ (Fluorides, as F)
	Tripotassium hexafluoroaluminate	13775-52-5	8-Hour TWA: 2 mg/m ³ (Aluminum, soluble salts, as Al)
	Zirconium dioxide	1314-23-4	8-Hour TWA: 5 mg/m ³ ((as Zr))
	Zirconium dioxide	1314-23-4	15-Minute STEL: 10 mg/m ³ ((as Zr))
British Columbia	Aluminum Oxide	1344-28-1	8-Hour TWA: 1 mg/m ³ (Respirable)
	Aluminum Oxide	1344-28-1	8-Hour TWA: 10 mg/m ³ (Total dust)
	Silicon carbide	409-21-2	8-Hour TWA: 10 mg/m ³ ((Non-fibrous, inhalable))
	Silicon carbide	409-21-2	8-Hour TWA: 3 mg/m ³ ((Non-fibrous, respirable))
	Silicon carbide	409-21-2	8-Hour TWA: 0.1 mg/m ³ ((Fibrous, including whiskers))
	Aluminum potassium fluoride	60304-36-1	8-Hour TWA: 2.5 mg/m ³
	Trisodium hexafluoroaluminate	15096-52-3	8-Hour TWA: 1 mg/m ³ (Aluminum metal and insoluble compounds, respirable)
	Trisodium hexafluoroaluminate	15096-52-3	8-Hour TWA: 2.5 mg/m ³ (Fluorides, as F)
	Tripotassium hexafluoroaluminate	13775-52-5	8-Hour TWA: 2.5 mg/m ³ (Fluorides, as F)
	Zirconium dioxide	1314-23-4	8-Hour TWA: 5 mg/m ³ ((as Zr))
	Zirconium dioxide	1314-23-4	15-Minute STEL: 10 mg/m ³ ((as Zr))
Manitoba	Aluminum Oxide	1344-28-1	8-Hour TWA: 1 mg/m ³ (Respirable)
	Silicon carbide	409-21-2	8-Hour TWA: 10 mg/m ³ ((Non-fibrous, inhalable))
	Silicon carbide	409-21-2	8-Hour TWA: 3 mg/m ³ ((Non-fibrous, respirable))
	Silicon carbide	409-21-2	8-Hour TWA: 0.1 mg/m ³ ((Fibrous, including whiskers))
	Aluminum potassium fluoride	60304-36-1	8-Hour TWA: 2.5 mg/m ³
	Trisodium hexafluoroaluminate	15096-52-3	8-Hour TWA: 1 mg/m ³ (Aluminum metal and insoluble compounds, respirable fraction)
	Trisodium hexafluoroaluminate	15096-52-3	8-Hour TWA: 2.5 mg/m ³ (Fluorides, as F)
	Tripotassium hexafluoroaluminate	13775-52-5	8-Hour TWA: 2.5 mg/m ³ (Fluorides as F)

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Zirconium dioxide	1314-23-4	8-Hour TWA: 5 mg/m ³ ((as Zr))
	Zirconium dioxide	1314-23-4	15-Minute STEL: 10 mg/m ³ ((as Zr))
Ontario	Aluminum Oxide	1344-28-1	8-Hour TWA: 1 mg/m ³ (Respirable)
	Aluminum Oxide	1344-28-1	8-Hour TWA: 10 mg/m ³ (Inhalable)
	Silicon carbide	409-21-2	8-Hour TWA: 10 mg/m ³ ((Non-fibrous, inhalable))
	Silicon carbide	409-21-2	8-Hour TWA: 3 mg/m ³ ((Non-fibrous, respirable))
	Silicon carbide	409-21-2	8-Hour TWA: 0.1 mg/m ³ ((Fibrous, including whiskers))
	Aluminum potassium fluoride	60304-36-1	8-Hour TWA: 2.5 mg/m ³
	Trisodium hexafluoroaluminate	15096-52-3	8-Hour TWA: 1 mg/m ³ (Aluminum metal and insoluble compounds, respirable fraction)
	Trisodium hexafluoroaluminate	15096-52-3	8-Hour TWA: 2.5 mg/m ³ (Fluorides, as F)
	Tripotassium hexafluoroaluminate	13775-52-5	8-Hour TWA: 2.5 mg/m ³ (Fluorides, as F)
	Zirconium dioxide	1314-23-4	8-Hour TWA: 5 mg/m ³ ((as Zr))
	Zirconium dioxide	1314-23-4	15-Minute STEL: 10 mg/m ³ ((as Zr))
Quebec	Aluminum Oxide	1344-28-1	8-Hour TWA: 10 mg/m ³ (Total dust)
	Silicon carbide	409-21-2	8-Hour TWA: 10 mg/m ³ ((Non-fibrous, total dust))
	Aluminum potassium fluoride	60304-36-1	8-Hour TWA: 2.5 mg/m ³
	Trisodium hexafluoroaluminate	15096-52-3	8-Hour TWA: 2.5 mg/m ³ (Fluorides, as F)
	Tripotassium hexafluoroaluminate	13775-52-5	8-Hour TWA: 2 mg/m ³ (Aluminum, soluble salts, as Al)
	Tripotassium hexafluoroaluminate	13775-52-5	8-Hour TWA: 2.5 mg/m ³ (Fluorides, as F)
	Zirconium dioxide	1314-23-4	8-Hour TWA: 5 mg/m ³ ((as Zr))
	Zirconium dioxide	1314-23-4	15-Minute STEL: 10 mg/m ³ ((as Zr))
Saskatchewan	Aluminum Oxide	1344-28-1	8-Hour TWA: 10 mg/m ³ (Inhalable)
	Aluminum Oxide	1344-28-1	15-Minute STEL: 20 mg/m ³ (Inhalable)
	Aluminum Oxide	1344-28-1	8-Hour TWA: 3 mg/m ³ (Respirable)
	Aluminum Oxide	1344-28-1	15-Minute STEL: 6 mg/m ³ (Respirable)
	Silicon carbide	409-21-2	8-Hour TWA: 10 mg/m ³ ((Non-fibrous, inhalable))

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Silicon carbide	409-21-2	15-Minute STEL: 20 mg/m ³ ((Non-fibrous, inhalable))
	Silicon carbide	409-21-2	8-Hour TWA: 3 mg/m ³ ((Non-fibrous, respirable fraction))
	Silicon carbide	409-21-2	15-Minute STEL: 6 mg/m ³ ((Non-fibrous, respirable fraction))
	Silicon carbide	409-21-2	8-Hour TWA: 0.1 mg/m ³ ((Fibrous, including whiskers) (Respirable fibers)))
	Aluminum potassium fluoride	60304-36-1	8-Hour TWA: 10 mg/m ³ ((Aluminum, metal dust and compounds, as Al))
	Aluminum potassium fluoride	60304-36-1	15-Minute STEL: 20 mg/m ³ ((Aluminum, metal dust and compounds, as Al))
	Aluminum potassium fluoride	60304-36-1	8-Hour TWA: 2.5 mg/m ³ ((Fluoride, as F))
	Aluminum potassium fluoride	60304-36-1	15-Minute STEL: 5 mg/m ³ ((Fluoride, as F))
	Trisodium hexafluoroaluminate	15096-52-3	8-Hour TWA: 2.5 mg/m ³ (Fluorides, as F)
	Trisodium hexafluoroaluminate	15096-52-3	15-Minute STEL: 5 mg/m ³ (Fluorides, as F)
	Trisodium hexafluoroaluminate	15096-52-3	8-Hour TWA: 10 mg/m ³ (Aluminum - metal dust and compounds, as Al)
	Trisodium hexafluoroaluminate	15096-52-3	15-Minute STEL: 20 mg/m ³ (Aluminum - metal dust and compounds, as Al)
	Tripotassium hexafluoroaluminate	13775-52-5	8-Hour TWA: 10 mg/m ³ (Aluminum metal dust and compounds)
	Tripotassium hexafluoroaluminate	13775-52-5	15-Minute STEL: 20 mg/m ³
	Tripotassium hexafluoroaluminate	13775-52-5	8-Hour TWA: 2 mg/m ³ (Aluminum, soluble salts)
	Tripotassium hexafluoroaluminate	13775-52-5	15-Minute STEL: 4 mg/m ³
	Tripotassium hexafluoroaluminate	13775-52-5	8-Hour TWA: 2.5 mg/m ³ (Fluorides, as F)
	Tripotassium hexafluoroaluminate	13775-52-5	15-Minute STEL: 5 mg/m ³
	Zirconium dioxide	1314-23-4	8-Hour TWA: 5 mg/m ³ ((as Zr))
	Zirconium dioxide	1314-23-4	15-Minute STEL: 10 mg/m ³ ((as Zr))
Canada	Calcium Carbonate	471-34-1	8-Hour TWA: 10 mg/m ³ (Alberta)
	Calcium Carbonate	471-34-1	15-Minute STEL: 20 mg/m ³ ((British Columbia) (Total Dust))
	Calcium Carbonate	471-34-1	8-Hour TWA: 10 mg/m ³ ((British Columbia)(Total Dust))
	Calcium Carbonate	471-34-1	8-Hour TWA: 3 mg/m ³ ((British Columbia) (Respirable Fraction))
	Calcium Carbonate	471-34-1	8-Hour TWA: 10 mg/m ³ (Quebec)

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Calcium Carbonate	471-34-1	8-Hour TWA: 10 mg/m ³ (Saskatchewan)
	Calcium Carbonate	471-34-1	8-Hour TWA: 20 mg/m ³ (Saskatchewan)
	Glass, oxide, chemicals	65997-17-3	8-Hour TWA: 5 mg/m ³ (Alberta OELs)
	Glass, oxide, chemicals	65997-17-3	8-Hour TWA: 5 mg/m ³ (British Columbia OELs)
	Glass, oxide, chemicals	65997-17-3	8-Hour TWA: 5 mg/m ³ (Manitoba OELs)
	Glass, oxide, chemicals	65997-17-3	8-Hour TWA: 5 mg/m ³ (Ontario OELs)
	Glass, oxide, chemicals	65997-17-3	8-Hour TWA: 5 mg/m ³ (Saskatchewan OELs)
	Silica, crystalline quartz	14808-60-7	TWA Exposure Limit Value: 0.025 mg/m ³ ((8 hrs) (Alberta) (respirable))
	Silica, crystalline quartz	14808-60-7	TWA Exposure Limit Value: 0.025 mg/m ³ ((8 hrs) (British Columbia)(respirable))
	Silica, crystalline quartz	14808-60-7	TWA Exposure Limit Value: 0.025 mg/m ³ ((8 hrs) (Manitoba) (respirable fraction))
	Silica, crystalline quartz	14808-60-7	TWA Exposure Limit Value: 10 mg/m ³ ((8 hrs) (Ontario) (respirable fraction))
	Silica, crystalline quartz	14808-60-7	TWA Exposure Limit Value: 0.1 mg/m ³ ((8 hrs) (Quebec) (respirable))
	Silica, crystalline quartz	14808-60-7	15-Minute STEL: 0.05 mg/m ³ ((Saskatchewan) (respirable fraction))

Biological limit values:

No biological exposure limits noted for the ingredient(s).

Information on monitoring procedures:

Not determined or not applicable.

Appropriate engineering controls:

The Engineering Controls described below are applicable to this product when used for grinding, sanding, mechanical abrasion or any other fabrication process that releases hazardous dust or fume.

Use controls as appropriate to minimize exposure to metal fumes and dusts during handling operations. Provide general or local exhaust ventilation systems to minimize airborne concentrations. Local exhaust is necessary for use in enclosed or confined spaces. Provide sufficient general/local exhaust ventilation in pattern/volume to control inhalation exposures below current exposure limits

Personal protection equipment

Eye and face protection:

Safety goggles or safety glasses with side shields

Contact lenses should not be worn where industrial exposure to this material is likely. Wear safety

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glasses, face shield or goggles as required for welding, burning, sawing, brazing, grinding or machining operations.

Skin and body protection:

Contact lenses should not be worn where industrial exposure to this material is likely. Wear safety glasses, face shield or goggles as required for welding, burning, sawing, brazing, grinding or machining operations.

Cut resistant gloves and sleeves should be worn when working with metal parts. Protective gloves should be worn as required for grinding, welding and burning operations. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Personal protective equipment for the body should be selected based on the task being performed and the risks involved. For grinding, welding and burning operations, wear appropriate personal protective clothing to

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory protection

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, use only a NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen.

Concentration in air of the various contaminants determines the extent of respiratory protection needed.

General hygienic measures:

Handle in accordance with good industrial hygiene and safety measures. Wash hands and face after handling chemical products. Wash hands before eating, drinking and smoking. Wash hands at the end of the workday.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance (physical state, color):	Black, brown, red wheel
Odor:	light
Odor threshold:	Not determined or not available.
pH-value:	Not determined or not available.
Melting/Freezing point:	Not determined or not available.
Boiling point/range:	Not determined or not available.
Flash point:	Not determined or not available.
Evaporation rate:	Not determined or not available.
Flammability (solid, gaseous):	Not determined or not available.
Explosion limit upper:	Not determined or not available.
Explosion limit lower:	Not determined or not available.
Vapor pressure:	Not determined or not available.
Vapor density:	Not determined or not available.
Density:	Not determined or not available.
Relative density:	Not determined or not available.
Solubilities:	Not determined or not available.

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Partition coefficient (n-octanol/water):	Not determined or not available.
Auto/Self-ignition temperature:	Not determined or not available.
Decomposition temperature:	Not determined or not available.
Dynamic viscosity:	Not determined or not available.
Kinematic viscosity:	Not determined or not available.
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

Other information

SECTION 10: Stability and reactivity

Reactivity:

Stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability:

Stable under normal storage and handling conditions.

Possibility of hazardous reactions:

Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid:

Strong acids, Strong bases & Strong oxidizing agents may modify the mechanical characteristics of the products and create safety hazards when used on machines.

Incompatible materials:

Strong Acids; Strong Bases; Strong Oxizing Agents

Hazardous decomposition products:

Thermal decomposition may lead to the release of irritating and toxic substances, including: Carbon Oxides, Aluminum Oxides, Zirconium Oxides, Potassium Oxides, Silicon Oxides, Calcium Oxides, Sodium Oxides and Hydrogen Fluoride.

SECTION 11: Toxicological information

Acute toxicity

Assessment:

Harmful if inhaled.

Product data: No data available.

Substance data:

Name	Route	Result
Silicon carbide	oral	LD50 Rat: 2000 mg/kg
	dermal	LD50 Rat: >2000 mg/kg
Aluminum potassium fluoride	dermal	LD50 Rabbit: >2000 mg/kg
	inhalation	LC50 Rat: 3.4 mg/L
	oral	LD50 Rat: >2000 mg/kg
Trisodium hexafluoroaluminate	oral	LD50 Rat: >5000 mg/kg
	inhalation	LC50 Rat: 4.47 mg/L (4 hours)
	dermal	LD50 Rabbit: >2000 mg/kg

Skin corrosion/irritation

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Assessment:

Causes skin irritation.

Product data:

No data available.

Substance data:

Name	Result
Tripotassium hexafluoroaluminate	Causes skin irritation.

Serious eye damage/irritation

Assessment:

Causes serious eye irritation.

Product data:

No data available.

Substance data:

Name	Result
Aluminum potassium fluoride	Causes serious eye irritation.
Tripotassium hexafluoroaluminate	Causes serious eye irritation.

Respiratory or skin sensitization

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Carcinogenicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Species	Result
Glass, oxide, chemicals	Not applicable	May cause cancer via inhalation.
Silica, crystalline quartz	Not applicable	Component may cause cancer.

International Agency for Research on Cancer (IARC):

Name	Classification
Glass, oxide, chemicals	Group 2B
Silica, crystalline quartz	Group 1

National Toxicology Program (NTP): None of the ingredients are listed.

Germ cell mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Reproductive toxicity

Assessment:

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May cause harm to breast-fed children.

Product data:

No data available.

Substance data:

Name	Result
Aluminum potassium fluoride	May cause harm to breast-fed children.

Specific target organ toxicity (single exposure)

Assessment:

May cause respiratory irritation.

Product data:

No data available.

Substance data:

Name	Result
Tripotassium hexafluoroaluminate	May cause respiratory irritation.

Specific target organ toxicity (repeated exposure)

Assessment:

Causes damage to organs through prolonged or repeated exposure.

Product data:

No data available.

Substance data:

Name	Result
Aluminum potassium fluoride	Causes damage to respiratory tract through prolonged or repeated exposure via inhalation.
Trisodium hexafluoroaluminate	Causes damage to organs (lungs and skeletal fluorosis) through prolonged or repeated exposure (oral & inhalation).
Zirconium dioxide	Chronic exposure to Zirconium Oxide fumes or dust may damage the lungs.
Silica, crystalline quartz	Component affects the lungs through repeated exposure.

Aspiration toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Information on likely routes of exposure:

No data available.

Symptoms related to the physical, chemical and toxicological characteristics:

No data available.

Other information:

No data available.

SECTION 12: Ecological information

Acute (short-term) toxicity

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Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Result
Aluminum potassium fluoride	LC50 Danio rerio: >10 mg/L (96 hours)
	EC50 Daphnia magna: 22.8 mg/L (48 hours)
Trisodium hexafluoroaluminate	LC50 Rainbow trout: 160 mg/L (24 hours)

Chronic (long-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Persistence and degradability

Product data: No data available.

Substance data: No data available.

Bioaccumulative potential

Product data: No data available.

Substance data: No data available.

Mobility in soil

Product data: No data available.

Substance data: No data available.

Other adverse effects: No data available.

SECTION 13: Disposal considerations

Disposal methods:

Dispose of in accordance with all applicable local, regional, state and federal regulations.

Contaminated packages:

Not determined or not applicable.

SECTION 14: Transport information

Canadian Transportation of Dangerous Goods (TDG)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

International Maritime Dangerous Goods (IMDG)

UN number	Not regulated
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. Trisodium hexafluoroaluminate

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UN transport hazard class(es)	9
Packing group	III
Environmental hazards	Marine Pollutant Trisodium hexafluoroaluminate
Special precautions for user	None
Stowage category	A
Excepted quantities	E1
Limited quantity	5 Kg

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

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

Bulk Name	None
Ship type	None
Pollution category	None

SECTION 15: Regulatory information

Canada regulations

Domestic substances list (DSL):

13775-52-5	Tripotassium hexafluoroaluminate	Not Listed
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Non-domestic substances list (NDSL):

13775-52-5	Tripotassium hexafluoroaluminate	Listed
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SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:

This product has been classified in accordance with the Canadian Hazardous Products Regulations and WHMIS 2015. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination

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with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

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End of Safety Data Sheet