

SAFETY DATA SHEET

DATE: JAN. 01, 2018

SECTION 1: INDENTIFICATION OF THE SUBSTANCE AND COMPANY INFORMATION

1.1 PRODUCT IDENTIFIER:

Fused brown aluminum oxide, brown aluminum oxide, brown aluminum oxide abrasive grains, aluminum oxide, Ashine brown aluminum oxide

CAS NUMBER: 1344-28-1

1.2 DETAILS OF THE SUPPLIER OF THE SUBSTANCE AND THE SAFETY DATA SHEET:

Ashine Industries Inc.

5 Orchid Court

Toronto, ON M2L 2X8 Canada

Tel: 416 493 5187 Fax: 416 493 4657

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Website: www.ashine.com

1.3 EMERGENCY TELEPHONE NUMBER

TELEPHONE: 416 493 5187

SECTION 2: HAZARDS INDENTIFICATION

2.1 CLASSICATION OF THE SUBSTANCE:

BROWN ALUMINUM OXIDE GRAINS EU CLP CLASSIFICATION: Not hazardous GHS CLASSIFICATION: Not hazardous US OSHA CLASSIFICATION: Not hazardous

2.2 LABEL ELEMENTS:

Not hazardous in accordance with the Globally Harmonized System (GHS) for the classification and Labeling of Chemicals

2.3 OTHER HAZARDS:

When the particle size becomes smaller than 240, there will be more dust. Avoid prolonged exposure to high concentration of the dust. Exposures to high concentration of dust may cause breath shortness and other unwell.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 MIXTURES

Mixture of substances listed below

HAZARDOUS	(%) WEIGHT	CAS	HAZARD	HAZARD STATEMENT AND
INGREDIENT	PERCENTAGE	NUMBER	PICTOGRAM	RISK
Aluminum oxide Al2O3	>95.0%	1344-28-01	None	Not hazardous, substance with a community workplace exposure limit
Iron Oxide Fe2O3	<0.15%	1309-37-1	None	Not hazardous, concentration in percentage small to be any health concern
Silicon oxide SiO2	<1.0%	7631-86-9	Yes	The silicon oxide in the material is fused. Concentration in percentage is small to be health concern. Community workplace exposure limit apply
Titanium oxide TiO2	<3.80%	13463-67-7	None	Not hazardous, concentration in percentage small to be any health concern

SECTION 4: FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

GENERAL INFORMATION:

No special measures are required

INHALATION:

Bring to fresh air or provide oxygen treatment if affected person has difficulty breathing. Consult doctor in case of complaints

SKIN CONTACT:

Brush off loose particles and dust from skin. Wash exposed area with soap and water. If skin irritation is experienced, consult a doctor.

EYE CONTACT:

Remove eye contact lens if present. Flush opened eyes thoroughly with water. If symptoms persist, consult a doctor.

INGESTION:

Rinse out mouth with water, then drink plenty of water. Do not induce vomiting. Consult doctor if there is complaint

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Dust may cause human respiration system, eye and skin irritation. Prolonged exposure of high concentration of dust may cause adverse effects on the lungs. Main route of exposure is inhalation.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Use common sense if any complaints occurred.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA SUITABLE EXTINGUISHING MEDIA:

Use any extinguishing method / media which are suitable for the surrounding condition

UNSUITABLE EXTINGUISHING MEDIA:

None

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

No relevant information available

5.3 ADVICE FOR FIRE-FIGHTERS:

Wear full fire-fighting gear

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

Ensure adequate ventilation and fresh air. Avoid dust formation and avoid buried by the substance. Use respiratory protective device for dust. Wear protective clothing. Avoid substance into eyes.

6.2 ENVIRONMENTAL PRECAUTIONS:

Avoid the substance enters water supply, sewer or ground surface.

6.3 METHODS AND MATERIAL FOR CONTAINMENT:

Pick up the substance with shovel or other mechanical loader. Place the substance in suitable container for disposal.

SECTION 7: HANDLING AND STORAGE

7.1 PRECAUSTIONS FOR SAFE HANDLING:

Avoid breathing substance dust. Use adequate ventilation when handling the substance. Avoid direct contact with skin and eyes. After handling, wash thoroughly to clean up.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY IMCOMPATIBILITIES:

No special storage required

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

		PEL(USA)	5 mg/m³ (respirable), 10 mg/m³ (total dust)
ALUMINUM OXIDE		REL(USA)	5 mg/m³ (respirable), 15 mg/m³ (total dust)
Al2O3	1344-28-1	TLV(USA)	1 mg/m³ (respirable)
		PEL(USA)	0.1 mg/m³ (respirable), 15 mg/m³ (total dust)
SILICON OXIDE	7631-86-9	REL(USA)	0.05 mg/m³ (respirable)
SiO2		TLV(USA)	0.025 mg/m³ (respirable)
	·		
		PEL(USA)	10 mg/m³ (respirable)
IRON OXIDE	1309-37-1	REL(USA)	5 mg/m³ (respirable)
Fe2O3		TLV(USA)	5 mg/m³ (respirable)
		PEL(USA)	5 mg/m³ (respirable), 15 mg/m³ (total dust)
TITANIUM OXIDE	13463-67-7	REL(USA)	
TiO2		TLV(USA)	10 mg/m³ (respirable)), 15 mg/m³ (total dust)

8.2 EXPOSURE CONTROLS:

APPROPRIATE ENGINEERING CONTROLS:

Use adequate general and local ventilation to maintain exposure below the occupational exposure limits.

PERSONAL PROTECTIVE MEASURES:

No respiration protection gear is necessary if the concentration of the substance dust is below exposure limits. For eye protection, use safety glasses with side shields or goggles. No special protective clothing is necessary. If substance deposits on body or hands, use water to wash them off thoroughly.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 BASIC PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Granular, powder	SPECIFIC GRAVITY	3.1 g/mm ³
COLOR	Brown	SOLUBILITY	none
ODOR	Odorless	Viscosity	Not Available
PH VALUE	Neutral	EVAPORATION RATE	Not Available
MELTING POINT	2,700° C	VAPOR DENSITY	None
FREEZING POINT	Not Available	FLASH POINT	Not Available
AUTO IGNITION	None	DECOMPOSITION	None
TEMPERATURE		TEMPERATURE	
EXPLOSIVE	None	PARTITION	Not Available
PROPERTY		COEFFICIENT	
FALMABILITY	None	BOILING POINT	Not Available
(SOLID, GAS)			

SECTION 10: STABILITY AND CHEMICAL PROPERTIES

10.1 REACTIVITY

It is a very inert inorganic substance

10.2 CHEMICAL STABILITY

It is stable and will not react with other material under normal use or storage.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

Not Known

10.4 CONDITIONS TO AVOID

Not Known

10.5 INCOMPATIBLE MATERIALS

Not Known

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

No decomposition will occur. But when the substance is used to machine other materials, hazardous material may occur due to the property of the material being machined.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:

INHALATION

Breath the dust may cause irritation to nose, throat and upper respiration tract.

SKIN CONTACT

May cause skin irritation

EYE CONTACT

May cause eye irritation or injury

INGESTION

Not toxic. But swallow the substance may cause stomach disturbances.

CHRONIC HEALTH EFFECTS:

Prolonged inhalation of the substance dust may cause adverse lung effects.

ACUTE TOXICITY VALUES:

No sign of acute toxicity in animal inhalation studies.

GERM CELL MUTAGENNICITY

The substance is not expected to present a risk of genetic damage.

CARCINOGENICITY

The substance is not listed as a carcinogen by OSHA.

DEVELOPMENT AND PRODUCTIVITY TOXICITY

No specific data is available. This substance is not expected to present a risk of adverse reproductive or development toxicity.

SPECIFIC TARGET ORGAN TOXICITY

No increased mortality or cancer morbidity was observed in epidemiological study of workers exposed to the substance.

SECTION 12: ECOLOGICAL INFORMATION

12.1 TOXICITY:

There is no information about the Aquatic toxicity

12.2 PRESISTENCE AND DEGRADABILITY:

None available

12.3 BIOACCUMULATIVE POTENTIAL:

None available

12.4 MOBILITY IN SOIL

None available

12.5 OTHER ADVERSE EFFECTS:

None Available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

Dispose the substance with all local and national regulations. Contact waste processors for

recycling information and disposal information. Do not dispose it together with household garbage. Do not dispose it into sewer system.

SECTION 14: TRANSPORTATION INFORMATION

14.1 UN NUMBER

US DOT: None, Canadian TDG: None

14.2 UN PROPER SHIPPING NAME

Not regulated

14.3 HAZARD CLASS

Not classified as dangerous for transportation

14.4 ENVIRONMENTAL HAZARDS

None

14.5 SPECIAL PRECAUSTIONS

None

SECTION 15:REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS SPECIFIC TO THE SUBSTANCE

TSCA (Toxic Substance Control Act)

Brown Aluminum oxide is listed on the TSCA inventory

SARA 311/312: Acute Health, Chronic Health

SARA 302, Extremely Hazardous, Not listed

SARA 313, Toxic Chemical, Not listed

CANADA (DSL/NDSL)

Listed - DSL

SECTION 16: OTHER INFORMATION

16.1 Concentration of airborne particles is risky to human respiration and gastrointestinal system. Use good industrial practice, such as good ventilation or masking can reduce the risk.

The health risk from inhalation of dust particle varies, depending on the type of particles, the particle concentration, exposure length. There is small percentage of impurities in the substance. The particles from the impurity have different risk level. Check related information and regulation to address the risk.

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