

SAFETY DATA SHEET

A-09E

Section 1 : Identification

GHS identifier : Carbide Burrs

Product CODE : **01-V** Carbide Burrs (001; 002; 003; 004; 005; 006; 007; 008; 009; 010 ; 011; 013; 014; 015; 016; 017; 018; 020; 021; 022; 023; 024; 025; 026; 027; 028; 029; 030; 031; 032; 033; 034; 035; 036; 037; 038; 039; 040; 041; 042; 043; 044; 045; 046; 047; 048; 049; 050; 051; 052; 601; 602; 604; 605; 606; 607; 609; 610; 613; 614; 615; 626; 631; 641; 644; 646; 652)

SDS No : A-09E

Product type : All carbide burrs

Identified Uses : Tooling

Manufacturer : Walter Surface Technologies Inc.

5977 Trans Canada Highway West

Pointe-Claire, Quebec

H9R 1C1

Phone: 514-630-2800

Toll Free: 1-800-363-7368

Fax: 514-630-2825

Emergency telephone number

CANUTEC (Canadian Transport Emergency Centre), (613) 996-6666,

24 hours / 7 days

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 : Not classified

GHS Label Element

Signal Word : No signal word

Hazard Statement : No known significant effects or critical hazards

Precautionary Statements

General : Read Safety Data Sheet before use. Keep out of reach of children.

Prevention : Not applicable.

Response : Not applicable.

Storage : Not applicable.

Disposal : Not applicable.

Hazard Not Otherwise Classified : None known

Section 3: Ingredients and composition of product

Hazardous Ingredients :

Ingredient Name	CAS Number	Concentration (%)
Cobalt	7440-48-4	3-30
Tungsten Carbide	12070-12-1	>50
Chromium Carbide	12012-35-0	0-6
Molybdenum Carbide	12069-89-5	0-6

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

All Walter Surface Technologies' carbides burrs are manufactured articles. The greatest part of the projected dust during the work comes from the work piece and not from the brush.

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

- Inhalation** : Move victim to fresh air. If the victim still feels unwell, consult a physician.
- Skin Contact** : Wash gently and thoroughly with lukewarm, flowing water and non-abrasive soap for 5 minutes. If signs/symptoms develop, consult a physician.
- Eyes Contact** : Flush the contaminated eye(s) with large amounts of clean water for 5 minutes while holding the eyelid(s) open. Do not remove embedded objects. Continue rinsing. Consult physician if necessary.
- Ingestion** : Dilute with water. Consult physician if necessary.
- Others** : Treat scrapes or cuts by cleaning wound. Apply sterile dressing.

Most important symptoms and effects, both acute and delayed

Potential acute health effects

- Inhalation** : No known significant effects or critical hazards
- Skin Contact** : No known significant effects or critical hazards
- Eyes Contact** : No known significant effects or critical hazards
- Ingestion** : No known significant effects or critical hazards

Over-exposure signs/symptoms

- Inhalation** : No known significant effects or critical hazards
- Skin Contact** : No known significant effects or critical hazards
- Eyes Contact** : No known significant effects or critical hazards
- Ingestion** : No known significant effects or critical hazards

Indication of any immediate medical attention and special treatment needed

None

See toxicological information (Section 11)

Section 5: Fire-Fighting Measures

Extinguish Media

Suitable extinguish Media : Water, sodium, chloride, soda ash

Unsuitable extinguish Media : None Known

Hazardous thermal decomposition products:

During combustion, toxic fumes may occur, use protective equipment. Decomposition products may include the following material:

Substance: Carbon monoxide and Carbon Dioxide

Special protective actions for fire-fighter:

No special measures are required.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : Not applicable

For emergency responders : Not applicable

Environmental precautions : Not applicable

Methods and materials for containment and cleaning up

Not applicable

Section 7: Handling and Storage

Precautions for safe handling : Follow safety standards for grinding (ANSI B11.09-2010)

Precautions for safe storage : There is no special storage requirement

Section 8: Exposure Control & Personal Protection

Control parameters

Occupational exposure limit :

The following table presents the limit for air contaminant from OSHA 1910-Z-1 Table.

Ingredient name	Limit value (mg/m ³)
Cobalt	0.1
Tungstene Carbide	Not available
Chromium Carbide	Not available
Molybdenum Carbide	Not available

When used in conformity with the industry standards, the cobalt percentage in the air from the carbide burrs is below 0.1 mg/m³.

Appropriate engineer control : General ventilation is adequate to evacuate the dust from the working area. With good ventilation, the exposure of every ingredient should be below the limit. Make sure all the equipment is in good condition.

Environment exposure control : Not applicable

Individual Personal Protection

Eyes Protection : Wear protective goggles with safe shields.

Hand Protection : Wear Gloves.

Skin Protection : Wear long clothes. Smock is recommended.

Respiratory Protection : Use of a protective half or full face mask.

Hearing Protection : Ear protection is recommended.

Section 9: Physical & Chemical Properties

Appearance

Physical state	: Solid
Appearance	: Dark grey metal
Odour	: Odorless
Boiling Point	: Not available
Freezing Point	: Not available
Specific Gravity	: 11.0 to 15.5
pH	: Not available
Vapour Pressure	: Not available
Evaporation	: Not available
Flashpoint	: Not available
Auto ignition temperature	: Not available
Sensitivity to mechanical	: Not available

Section 10: Stability & Reactivity

Reactivity	: None known
Chemical Stability	: This product is stable
Possibility to Hazardous Reaction	: None known
Conditions to avoid	: None know
Incompatible Material	: None known

Hazardous decomposition products:

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

Section 11: Toxicology

Information on toxicological effects

Acute Toxicity :

Ingredient Name	Oral Acute Toxicity
Cobalt	LD50:> 6170 mg/kg (Rat)

Irritation/Corrosion : Uncontrolled dust can affect eyes and respiration.

Sensitization : No known significant effects

Carcinogenicity : No known significant effects

Reproductive Toxicity : No known significant effects

Specific target organ toxicity - Single exposure: No known significant effects

Specific target organ toxicity - Repeated exposure: No known significant effects

Aspiration Hazard : No known significant effects

Information on the likely routes of exposure:

Inhalation, Skin contact, Eyes contact, Ingestion

Potential acute health effects

Inhalation : No known significant effects or critical hazards

Skin Contact : No known significant effects or critical hazards

Eyes 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

Inhalation : No known significant effects or critical hazards

Skin Contact : No known significant effects or critical hazards

Eyes Contact : No known significant effects or critical hazards

Ingestion : No known significant effects or critical hazards

Short term exposure

Potential immediate effect: No known significant effects or critical hazards

Potential delayed effect: No known significant effects or critical hazards

Long term exposure

Potential immediate effect: No known significant effects or critical hazards

Potential delayed effect: 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

Section 12: Ecological Information

Toxicity

Aquatic Toxicity : No know significant effects or critical hazards.

Persistence and degradability: No know significant effects or critical hazards.

Bioaccumulation potential: No know significant effects or critical hazards.

Mobility in soil : No know significant effects or critical hazards.

Other adverse effects : No know significant effects or critical hazards.

Section 13: Disposal Considerations

Disposal methods : Dispose as per local, regional, national and international regulations.

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.

EPA Hazardous Waste Number (RCRA): Not regulated

Section 14: Transport Information

	DOT Classification	IMDG	IATA
UN Number	Not Regulated	Not Regulated	Not Regulated
UN Proper shipping name	-	-	-
Transport Hazards Class	-	-	-
Packing Group	-	-	-
Environmental Hazards	No	No	No
Additional Information	-	-	-

Special precautions for user : None

Section 15: Regulatory Information

US Federal Regulations : Contact Walter Surface Technologies for more information.

Hazard Categories: Fire Hazard – No, Pressure Hazard – No, Reactivity Hazard – No, Immediate Hazard –No, Delayed Hazard – No.

State Regulations : Contact Walter Surface Technologies for more information.

Chemical Inventories : This product is defined by TSCA regulations and is exempt from TSCA Inventory listing requirements.

International Regulations : Contact Walter Surface Technologies for more information.

This SDS has been prepared to meet the U.S OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Section 16: Other Information**History****Date of issue mm/dd/yyyy** : 05/21/2015**Version** : 1**Prepared by** : Walter Surface Technologies 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.