

Section 1 Identification

Product Name: Ceramic Shield Cup
Part Numbers: 71-1015
Recommended Use: Shield Cup – Viper Welding Torch
Manufacturer: Camarc LLC, 39048 Webb Drive, Westland, M, 48185, USA
General Information: office@camarcwelding.us
Emergency: 313 727 5020

Section 2 Hazard(s) Identification

During normal operation and usage, this non-combustible, non-reactive, solid material article does not present inhalation, ingestion, or chemical hazards. The Shield Cup that this SDS concerns will require periodic maintenance or replacement, during which exposure to adhered hazardous contamination is possible. When this article is machined or otherwise modified by the user, fumes or dusts may be created, which may be potentially hazardous.

Section 3 Composition / Information on Ingredients

Silicon Nitride Formed Piece: Si₃N₄ – 100%

Exposure Limit	
ACGIH TWA	No Limit Established
ACGIH TWA	No Limit Established
OSHA PEL TWA	No Limit Established
OSHA PEL TWA	No Limit Established

Section 4 First Aid Measures

Show this SDS to those administering medical attention or treatment.

Inhalation: If breathing has stopped, perform artificial respiration and obtain medical aid immediately. If breathing is difficult, provide fresh air and seek medical attention as soon as possible.

Skin: Cuts or abrasions should be treated promptly with thorough cleansing of the affected area. Wash the skin using soap or mild detergent and water. Get medical attention if irritation develops and persists.

Eyes: Eye injuries from solid particles should receive immediate medical attention. Dust may be flushed from eyes immediately with large amounts of water, lifting the lower and upper lids occasionally; seek medical attention.

Ingestion: If the product or dust is swallowed, seek immediate medical attention or advice. Do not induce vomiting

Section 5 Fire-Fighting Measures

Suitable Extinguishing Media:

This solid material is noncombustible. Use extinguishing media appropriate to the surrounding fire.

Special Fire Fighting Procedures:

Not applicable

Unusual Fire and Explosion Hazard:

A fire or explosion hazard is not likely but, is possible if dusts generated by grinding are present in certain combinations of particle size, dispersion, concentration, and strong ignition source.

Hazardous Combustion Products:

Temperatures above the melting point may release alloy elements and metal oxides.

Special Protective Equipment and Precautions for Fire-Fighters:

For a dust fire confined to a small area, use a respirator approved for toxic dusts and fumes. Do not use water to extinguish fires around operations involving molten metal due to the potential for steam explosions. Note – In operation this piece is located within a welding torch.

Section 6 Accidental Release Measures

Clean-Up Procedures:

Product in solid form may be picked up by hand or other means to be placed into a container. When cleaning dust, use methods that minimize the dispersion of dust such as a high efficiency particulate air (HEPA) vacuum, wet dust mop, or wet clean-up. Put recovered material in a suitable, covered, and labeled container.

Personal Precautions, Protective Equipment and Emergency Procedures:

Refer to Section 8.

Environmental Precautions:

Refer to Section 12.

Section 7 Handling and Storage

Safe Handling Procedures:

No special safety precautions required for handling prior to installation. Installation and removal of the product may cause exposure to dusts and other materials or chemicals associated with the installation (work) environment. Operations such as grinding, cutting, burning, and welding may generate dusts or fumes which may require special handling procedures.

Hygienic Practices:

Wash hands thoroughly after handling, and before eating or smoking. Smoking and consumption of food or beverages should be restricted from areas where hazardous dust or chemical may be present. Do not shake clothing, rags, or other items to remove dust. Dust should be removed by laundering or vacuuming (with appropriate filters) the clothing, rags, or other items.

Conditions for Safe Storage:

Maintain good housekeeping to prevent accidental exposure to substances that could impair the quality of the product.

Section 8 Exposure Control and Personal Protection**Control parameters:**

Refer to table in Section 3 for occupational exposure limit values.

Appropriate Engineering Controls:

When machining, heating or melting, use adequate local (preferably) or general exhaust ventilation to ensure that concentrations of dusts or fumes do not exceed exposure limits. Keep workplace clean and dry (unless wet machining is being used to capture dust and fume). Train personnel to minimize exposure to hazards during installation and replacement of product. On a regular basis, verify condition and proper function of equipment in which the product will be installed.

Individual Protection Measures:

Use appropriate gloves to protect against physical hazards. Always wear safety glasses with side shields and appropriate hearing protection when grinding or cutting. Use an approved respirator, with the proper assigned protection factor, whenever airborne concentrations of hazardous components exceed exposure limits listed in Section 3. Workers should wash before meals and leaving work.

Section 9 Physical and Chemical Properties

Appearance:	Formed Ceramic Piece with Grey color
Odor:	None
Melting point:	Not Available
Flash Point:	Not Available
Boiling point and range:	Not Available
Evaporation Rate:	Not Volatile
Flammability:	Not Flammable
Vapor Density:	Not Volatile
Density / Specific Gravity:	3.44
Vapor Pressure:	Not Available
Solubility In Water:	Insoluble

(Note – These are typical values and not an exact Specification).

Section 10 Stability and Reactivity**Reactivity:**

There are no known reactivity hazards associated with this product.

Chemical Stability:

Stable under normal use conditions

Possibility of hazardous reactions:

There are no known hazardous reactions known.

Conditions to avoid:

There are no known hazardous conditions known

Incompatible materials:

None known to cause a hazardous situation.

Hazardous decomposition products:

Does not decompose when used and stored correctly. Thermal decomposition or combustion may produce harmful vapors or gases= - Oxides of Nitrogen.

Section 11 Toxicology Information

Product is supplied as a Formed Solid Item.

Symptoms related to the physical, chemical and toxicological characteristics.

Under normal handling and use, exposure to product presents few health hazards. Dusts may cause mechanical irritation to eyes and skin. Ingestion may cause transient irritation of throat, stomach and gastrointestinal tract. Inhalation may cause coughing, nose and throat irritation, and sneezing. Higher dust exposures may cause difficulty breathing, congestion, and chest tightness.

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

Possible effects by route of exposure:

Inhalation: Breathing ceramic dust may worsen symptoms of individuals with pre-existing chronic respiratory disease. Acute exposure to dust or fume may cause upper respiratory tract irritation.

Skin Contact: In dust form wash off immediately with plenty of water. If irritation occurs seek medical advice.

Eye Contact: If present as dust rinse immediately with plenty of water and seek medical attention. In its formed state as sold it presents few hazards.

Ingestion: Clean mouth with Water and give large quantities of water to drink. Get medical attention if symptoms occur.

Section 12 Ecological Information**Toxicity**

No data available

Persistence and degradability

The methods for determining biodegradability are not applicable to inorganic substances.

Bio-accumulative potential

No data available

Mobility in soil

No data available

Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

Boron Nitride is relatively insoluble in water. Product is not expected to present an environmental hazard. Dusts and fumes should not be released into the environment.

Section 13 Disposal Considerations

Used Product should be treated as scrap copper whenever possible and may be treated as General Industrial Waste is permitted by Federal, State and Local Disposal Regulations.

Section 14 Transportation Information

UN number: Not applicable
UN proper shipping name: Not applicable
Transport hazard class(es): Not applicable
Packing group number: Not applicable
Environmental hazards: Not applicable
IMDG Code: Not applicable
Transport in bulk: Not applicable
Special precautions: No special requirements are necessary in transporting this product

Section 15 Regulatory Information

This product is not classified as a health or environmental hazard under current legislation. No obligation exists to issue a safety data sheet according to REACH Art. 31.

Hazardous Material Identification System

Health Hazard	0
Flammability Hazard	0
Reactivity Hazard	0
Maximum Personal Protection	A

Section 16 Other Information



SAFETY DATA SHEET - SDS

Page : 6
SDS No. SDS - 71-1015 - Ceramic Shield Cup - Viper
Rev:
Date: 9/16/2022

Document Name: SDS - 71-1015 - Ceramic Shield Cup - Viper
Revision Number:
Revision Reason:
Date: 9-16-2022