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# SAFETY DATA SHEET

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## 1. IDENTIFICATION

Trade Name: C19

Product Name: TiAlSiN

Chemical Description: Titanium Aluminum Silicon Nitride Film

End Use: Coating for metal tooling.

Transportation Emergency: (607) 731-2240

Health Emergency: (607) 562-2363

## 2. HAZARD IDENTIFICATION

This product is classified as not hazardous in accordance with OSHA Hazard Communication Standard 29 CFR 1910.1200.

Health Hazards

None Classified

Physical Hazards

None Classified

Hazard Category

None Classified

Routes of Exposure

None Classified

GHS Labeling

Hazardous Symbol: None

Signal Word: None

Hazardous Statements: None

Precautionary Statements

Prevention: None

Response: None

Storage: None

Disposal: None

Other Hazards:

No other hazards known at this time.

Unknown Acute Toxicity (GHS-US):

None Classified.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

None of the components are classified as hazardous, therefore, no ingredients are required to be exposed.

#### **4. FIRST AID INFORMATION**

Eyes:

Safety glasses are recommended. If contact with the eyes is made flush with water.

Skin:

Wash with soap and water.

Inhalation:

Remove from exposure and seek fresh air.

Ingestion:

Dilute stomach contents with several glasses of water

Symptoms of Over Exposure: Minimal respiratory tract irritation may occur as with exposure to large amounts of any non-toxic dust.

Medical Conditions Generally Aggravated by Exposure: None when used as described by product literature.

#### **5. FIRE FIGHTING MEASURES**

Flash Point: N/A

Flammable Limits in Air (%): N/A

Extinguishing Media: Coating is not flammable. Fight fire normally based upon other materials involved.

Lower (LEL): N/A

Upper (UEL): N/A

Auto-Ignition: N/A

Special Fire Fighting Procedures: Normal firefighting procedures should be followed. Always wear self-contained breathing apparatus to avoid inhalation of other hazardous materials that may be involved.

Special Fire Explosion Hazards: N/A

#### **6. ACCIDENTAL RELEASE MEASURES**

Procedures To Contain and Clean-Up Leaks or Spills: The coating is applied to metal tooling. Tools should be stored and handled properly to avoid introducing a tripping hazard from spilling.

Reporting Procedure: Report all spills in accordance with Federal, State, and Local laws and requirements. We are not aware of any reporting requirements for our coatings.

#### **7. HANDLING AND STORAGE**

Precautions for Safe Handling: Handle in accordance with good industrial practice and safety procedures. Wash hands with mild soap before eating, drinking, or smoking. Observe proper lifting techniques when dealing with bulk storage.

Storage Conditions: Store in a cool, dry, and well ventilated place.

Incompatible Materials: None Known

## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

Respiratory Protection: N/A

Ventilation:

Local Exhaust: General Ventilation

Mechanical: N/A

Special: N/A

Other: N/A

Protective Gloves: As needed for hot or sharp surfaces.

Eye Protection: Safety eye wear is recommended.

Other Protective Clothing: N/A

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Aubergine/Purple Brown  
(Customer Specifies Color Finish)

Odor: None

Boiling Point: N/A

Solubility in Water: N/A

Evaporation Rate: N/A

Vapor Density (Air=1): N/A

Volatile: N/A % (Weight and Volume)

Softening Range: 700 – 800 degrees C

Melting Point: N/A

Specific Gravity: ~1

Vapor Pressure: N/A

pH: N/A

## 10. STABILITY AND REACTIVITY

Stable or Unstable: Stable

Incompatible Materials: N/A

Hazardous Decomposition Products: N/A

Decomposition Temperature: N/A

Hazardous Polymerization: Will Not Occur

Conditions to Avoid: N/A

## 11. TOXICOLOGICAL INFORMATION

Acute Toxicity: N/A

Skin Corrosion/Irritation: N/A

Serious Eye Damage/Irritation: N/A

Respiratory or Skin Sensitization: N/A

Germ Cell Mutagenicity: N/A

Teratogenicity: N/A

Carcinogenicity: N/A

Target Organ Toxicity (single exposure): N/A

Target Organ Toxicity (repeated exposure): N/A

Reproductive Toxicity: N/A

Aspiration Hazard: N/A

## 12. ECOLOGICAL INFORMATION

We are not aware of any ecological risks associated with their coatings.

## 13. DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose of all waste materials in accordance with Federal, State, and Local laws.

## **14. TRANSPORTATION INFORMATION**

Transportation and Shipping: All coatings do not classify for any hazard class per USDOT. Always ship in accordance with 49 CFR, IATA, ICAO, UN Regulations, or other local regulations.

## **15. REGULATORY INFORMATION**

US Federal Regulations: N/A

US State Regulation: Coatings comply with California Proposition 65 law. Coatings do not contain substances which violate the California Safe Drinking Water and Toxic Enforcement Act of 1986 in levels which require a warning label.

Canadian Regulations: Coating is classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all relevant information to satisfy CPR.

European Regulations: Coatings comply with RoHS and REACH laws. Coatings do not contain banned substances above the threshold that require reporting.

## **16. SDS INFORMATION**

Revision Date: 7/15/2015

Other Information: This document has been prepared in accordance with the SDS requirements set forth in the OSHA Hazard Communication Standard 29 CFR 1910.1200