



MSDS of Tungsten Boride

Chinatungsten Online (Xiamen) Manu. & Sales Corp.

SECTION I – SUBSTANCE AND COMPANY IDENTIFICATION

Product/Material: Tungsten Boride

Chemical Formula: W₂B₅

Company Identification

Company Name: Chinatungsten Online (Xiamen) Manu. & Sales Corp.

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Poison Center

Phone Number: +0086 120

Opening Hours: 24/7

SECTION II – COMPOSITION/INFORMATION ON INGREDIENTS

C.A.S. Number: 12007-98-6

Component Name: Tungsten Boride

Percent: 99.9%

SECTION III – HAZARDS IDENTIFICATION

Classification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements

Not Required

Hazard or Otherwise Classified (HNOC)

Not identified

SECTION IV – FIRST AID MEASURES

Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

Skin Contact

Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.

Inhalation

Remove to fresh air. Get medical attention immediately if symptoms occur.

Ingestion

Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.



Most important symptoms and effects

None reasonably foreseeable.

Notes to Physician

Treat symptomatically

SECTION V – FIRE FIGHTING MEASURES

Unsuitable Extinguishing Media

No information available

Flash Point

No information available

Method -

No information available

Autoignition Temperature

No information available

Explosion Limits

Upper No data available

Lower No data available

Sensitivity to Mechanical Impact No information available

Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

None known.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION VI – ACCIDENTAL RELEASE MEASURES

Personal Precautions Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.

Environmental Precautions Should not be released into the environment. See Section 12 for additional Ecological Information.

Methods for Containment and Clean Up Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

SECTION VII – HANDLING AND STORAGE

Precautions for Safe Handling Do not breathe dust. Wash thoroughly after handling. Wear protective gloves/clothing and eye/face protection. Use only outdoors or in a well-ventilated area.

Storage Protect from light.

SECTION VIII – EXPOSURE CONTROL/PERSONAL PROTECTION

Component Exposure Limits

ACGIH: 3 mg/m³ TWA (in the absence of cobalt) as W respirable particulate



matter (related to Tungsten compounds)

ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)

There are no biological limit values for any of this product's components.

Engineering Controls None under normal use conditons.

Individual Protection Measures, such as Personal Protective Equipment

Eye/face protection

Wear splash resistant safety goggles with a faceshield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Skin Protection

Wear appropriate chemical resistant clothing.

Respiratory Protection

No protective equipment is needed under normal use conditions.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: grey powder

Physical State: solid

Odor: odorless

Odor Threshold: Not available

pH: Not available

Melting Point: Not available

Boiling Point: Not available

Boiling Point Range: Not available

Freezing point: Not available

Evaporation Rate: Not available

Flammability (solid, gas): Not Flammable

Autoignition Temperature: Not available

Flash Point: (Not flammable)

Lower Explosive Limit: Not available

Decomposition temperature: Not available

Upper Explosive Limit: Not available

Vapor Pressure: Not available

Vapor Density: Not available

Specific Gravity (water=1): 15.25g/cm³

Water Solubility: Not available

Partition coefficient: n-octanol/water: Not available

Viscosity: Not available

Kinematic viscosity: Not available

Solubility (Other): Not available

Molecular Formula: W₂B₅

Molecular Weight: 421.76

Stability: Light sensitive

Conditions to Avoid: Exposure to light



Incompatible Materials: Strong oxidizing agents

Hazardous Decomposition Products: None under normal use conditions

Hazardous Polymerization: Hazardous polymerization does not occur.

Hazardous Reactions: None under normal processing

SECTION X – STABILITY AND REACTIVITY

Reactive Hazard: None known, based on information available

Stability: Light sensitive.

Conditions to Avoid: Exposure to light.

Incompatible Materials: Strong oxidizing agents

Hazardous Decomposition Products: None under normal use conditions

Hazardous Polymerization: Hazardous polymerization does not occur.

Hazardous Reactions: None under normal processing.

SECTION XI – TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation

Not available

Skin Contact

Not available

Eye Contact

Not available

Ingestion

Not available

Product Toxicity Data

Acute Toxicity Estimate

No data available.

Immediate Effects

Not available

Delayed Effects

Not available

Irritation/Corrosivity Data

Not available

Respiratory Sensitization

No data available.

Dermal Sensitization

No data available.

Component Carcinogenicity

Not available

Germ Cell Mutagenicity

No data available.

Tumorigenic Data

No data available.

Reproductive Toxicity



No data available.

Specific Target Organ Toxicity - Single Exposure

Not available

Specific Target Organ Toxicity - Repeated Exposure

No data available.

Aspiration hazard

No data available.

Medical Conditions Aggravated by Exposure

Not available

SECTION XII – ECOLOGICAL INFORMATION

Ecotoxicity

Do not empty into drains.

Persistence and Degradability Insoluble in water

Bioaccumulation/ Accumulation No information available.

Mobility Is not likely mobile in the environment due its low water solubility

SECTION XIII – DISPOSAL CONSIDERATIONS

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

SECTION XIV – TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

IATA Not regulated

IMDG/IMO Not regulated

SECTION XV – REGULATORY INFORMATION

No Special regulations. Not regulated (Observe national regulations)

(European Union: No Labeling is required in accordance with the EEC directives.

TRGS 900 Atmospheric Threshold Value: Insoluble Tungsten Compounds: 5 mg/m³

Handling restrictions: None

Major accident regulations: Not listed in the appendices.

Technical Instruction for Air Pollution Control: Figure 5.2.1 Total dust

Water Pollution class (WGK): Not harmful to water)

SECTION XVI – OTHER INFORMATION

“Although the information and recommendations set forth herein (hereinafter “Information”) are presented in good faith and believed to be correct as of the date hereof, TTT makes no representations as to the completeness or accuracy thereof.

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