Safety Data Sheet

Issue date 25-Sep-2018 **Revision date** 25-Sep-2018 **Revision Number** 1

1. IDENTIFICATION

Product identification

Product identifier	Supertanium® Cobra™ Solid Carbide Drill Bit
Other means of identification	P58029
Recommended use	Cutting
Restrictions on use	For industrial use only

Supplier

Corporate Headquarters:
Lawson Products, Inc.
8770 W. Bryn Mawr Ave., Suite 900
Chicago, IL 60631
(866) 837-9908

Canadian Distribution Center:
Lawson Canada
7315 Rapistan Court
Mississauga, ON L5N 5Z4
(800) 323-5922

24 Hour Emergency Phone Number (888) 426-4851 (Prosar)

2. HAZARD(S) IDENTIFICATION

Hazard Classification While this material is not classified as hazardous under OSHA regulations, this SDS contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

Symbol Not applicable

Signal word Not applicable

Hazard statements Not applicable

Precautionary statements

Response Not applicable

Storage Not applicable

Disposal Not applicable

Hazard(s) Not Otherwise Classified (HNOC) Not applicable.

Physical Hazards Not Otherwise Classified (PHNOC) Not applicable.

Unknown acute toxicity None known

3. COMPOSITION/INFORMATION ON INGREDIENTS

Composition Mixture.

Chemical name	CAS-No	Weight %
Tungsten Carbide	12070-12-1	80-97
Cobalt	7440-48-4	3-20
Tantalum Carbide	12070-06-3	0-15
Vanadium Carbide	11130-21-5	0.1-2

4. FIRST-AID MEASURES

Necessary first-aid measures

Inhalation Not a likely exposure route. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Rest in a half upright position, and loosen clothing. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. Seek medical advice after significant exposure.

Ingestion Not an expected route of exposure. Get medical attention if symptoms occur.

Skin contact Not an expected route of exposure. Wash area thoroughly with soap and water. Seek medical attention if irritation persists.

Eye contact Not a likely route of exposure. Seek medical attention if irritation persists.

Most important symptoms (acute) Not expected to present a significant hazard under anticipated conditions of normal use.

Most important symptoms (over-exposure) Not expected to present a significant hazard under anticipated conditions of normal use.

Indication of any immediate medical attention and special treatment needed NOTE TO PHYSICIAN:There is no specific treatment regimen. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. For powder fires, smother with dry sand, dry dolomite, ABC type fire extinguisher, or flood with water.

Unsuitable extinguishing media Not available.

Specific hazards Hard cemented carbides are not a fire hazard. Dusts or mists generated in grinding operations may present a fire or explosion hazard when exposed to high temperatures or ignition sources. Stable under normal conditions.

Special protective equipment for fire-fighters Not available.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

No special precautions are required. Use respiratory protective device against the effects of fumes/dust/aerosol. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Methods and materials for containment and cleaning up

Solid objects may be picked up and placed in a container. Make sure the solid objects are at room temperature before handling. Vacuum or sweep material and place in a disposal container. Avoid dust formation. Hard surfaces may be mopped with water.

7. HANDLING AND STORAGE

Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Use only with adequate ventilation. In the event grinding is performed, special precautions should be observed in order to minimize the dust being created. Finely divided dust may form explosive mixture with air. Avoid inhalation of dust from the product. Avoid skin contact. Do not strike or impact product with hardened steel hammer or similar device because of possible fracture or shattering of product. Product should be pressed if inserted into another metal part or product. Wash hands with soap and water before eating, drinking, smoking, or using toilet facilities. Wear appropriate personal protective equipment. Make sure tool is properly seated and safely clamped or held in place according to approved procedures. Always use machine guards and wear safety glasses and protective clothing to prevent injury in the event of tool breakage.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry, and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical name	OSHA PEL (TWA)	ACGIH OEL (TWA)	NIOSH - TWA
Tungsten Carbide	-	3 mg/m³ TWA	10 mg/m³ STEL 5 mg/m³ TWA
Cobalt	0.1 mg/m³ TWA	0.02 mg/m³ TWA	0.05 mg/m³ TWA
Tantalum Carbide	-	-	-
Vanadium Carbide	-	-	3 mg/m³ STEL 1 mg/m³ TWA

Appropriate engineering controls

Adequate ventilation should be provided to keep exposure levels below current acceptable exposure limits.

Individual protection measures, such as personal protective equipment

Eye protection Safety glasses with side-shields.

Skin and body protection Protective gloves. Use of a barrier cream on exposed skin is highly recommended.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Hygiene measures Wash hands after handling the product.

Canadian Province Occupational Exposure Limits

Chemical name	Alberta OEL	British Columbia OEL	Manitoba OEL	New Brunswick - OEL	Newfoundland & Labrador - OEL	Nova Scotia - OEL	Ontario OEL	Prince Edward Island - OEL	Quebec OEL	Saskatchewan - OEL
Tungsten Carbide	10 mg/m³ STEL 5 mg/m³ TWA	10 mg/m³ STEL 5 mg/m³ TWA	3 mg/m³ TWA	10 mg/m³ STEL 5 mg/m³ TWA	3 mg/m³ TWA	3 mg/m³ TWA	10 mg/m³ STEL 5 mg/m³ TWA	3 mg/m³ TWA	10 mg/m³ STEV 5 mg/m³ TWAEV	10 mg/m³ STEL 5 mg/m³ TWA
Cobalt	0.02 mg/m³ TWA	0.02 mg/m³ TWA 0.02 mg/m³ TWA	0.02 mg/m³ TWA	0.02 mg/m³ TWA	0.02 mg/m³ TWA 0.02 mg/m³ TWA	0.02 mg/m³ TWA	0.02 mg/m³ TWA 0.02 mg/m³ TWA	0.02 mg/m³ TWA 0.02 mg/m³ TWA	0.02 mg/m³ TWAEV 0.02 mg/m³ TWAEV	0.06 mg/m³ STEL 0.02 mg/m³ TWA 0.02 mg/m³ TWA
Tantalum Carbide	-	-	-	-	-	-	-	-	-	-
Vanadium Carbide	-	-	-	-	-	-	-	-	-	-

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state Solid

Color Dark grey

Odor Not applicable

Odor threshold Not applicable

pH Not applicable

Melting point/range °C Not applicable

Melting point/range °F Not applicable

Boiling point/range °C Not applicable

Boiling point/range °F Not applicable

Flash point °C / °F Not applicable

Evaporation rate Not applicable

Flammability (Solid, Gas) Not applicable

Lower explosion limit Not applicable

Upper explosion limit Not applicable

Vapor pressure Not applicable

Vapor density Not applicable

Relative density 11 - 15.5

Solubility Insoluble in water

Partition coefficient (n-octanol/water) Not applicable

Autoignition temperature °C Not applicable

Autoignition temperature °F Not applicable

Decomposition temperature °C Not available

Decomposition temperature °F Not available

Viscosity Not applicable

10. STABILITY AND REACTIVITY

Reactivity No dangerous reactions under normal conditions of use.

Chemical stability Stable at normal temperature and pressure.

Possibility of hazardous reactions Hazardous polymerization does not occur.

Conditions to avoid Not available.

Incompatible materials Strong acids. Contact of dust with strong oxidizers can cause fire or explosion.

Hazardous decomposition products None known.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure Dermal. Eyes. Ingestion. Inhalation.

Symptoms Irritation of the nose or throat. Inhalation of dust can cause transient or permanent respiratory disease, including occupational asthma and interstitial fibrosis, in a small percentage of exposed individuals. It is reported that cobalt dust is the most probable cause of such respiratory diseases. Symptoms include difficulty breathing, wheezing, cough and tightness of chest. Certain pulmonary conditions may be aggravated by exposure.

Delayed and immediate effects as well as chronic effects from short and long-term exposure May cause an allergic skin reaction or rash if in contact with skin. Repeated exposure may cause skin dryness or cracking. Cobalt-tungsten carbide powders and hard metals are listed on the US Department of Health and Human Service 13th report on Carcinogens as reasonably anticipated to be a human carcinogen. Not likely, due to the form of the product.

Numerical measures of toxicity

Chemical name	Inhalation LC50:	Dermal LD50:	Oral LD50:
Tungsten Carbide	-	-	-
Cobalt	> 10 mg/L (Rat) 1 h	-	= 6171 mg/kg (Rat)
Tantalum Carbide	-	-	-
Vanadium Carbide	-	-	-

ATEmix (dermal) Not available

ATEmix (oral) Not available

ATEmix (inhalation-gas) Not available

ATEmix (inhalation-vapor) Not available

ATEmix (inhalation-dust/mist) Not available

Carcinogenicity

Chemical name	ACGIH OEL - Carcinogens	IARC	OSHA RTK Carcinogens	NTP
Tungsten Carbide	-	-	-	-
Cobalt	A3	Group 2B	Listed	Reasonably Anticipated
Tantalum Carbide	-	-	-	-
Vanadium Carbide	-	-	-	-

Canadian Province carcinogenicity limits

Chemical name	Alberta - Carcinogen	British Columbia - Carcinogen	Manitoba - Carcinogen	New Brunswick - Carcinogen	Nova Scotia - Carcinogen	Quebec - Carcinogen
Tungsten Carbide	-	-	-	-	-	-
Cobalt	-	IARC 2B	ACGIH A3	ACGIH A3	ACGIH A3	C3 carcinogen
Tantalum Carbide	-	-	-	-	-	-
Vanadium Carbide	-	-	-	-	-	-

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish
Tungsten Carbide	-	-
Cobalt	-	100: 96 h Brachydanio rerio mg/L LC50 static
Tantalum Carbide	-	-
Vanadium Carbide	-	-

Persistence and degradability No data available.

Bioaccumulation

Chemical name	CAS-No	Partition coefficient (log Kow)
Tungsten Carbide 12070-12-1	12070-12-1	-
Cobalt 7440-48-4	7440-48-4	-
Tantalum Carbide 12070-06-3	12070-06-3	-
Vanadium Carbide 11130-21-5	11130-21-5	-

Mobility in soil Not available.

Other adverse effects None known

13. DISPOSAL CONSIDERATIONS

Disposal information Dispose in accordance with local, state and federal regulations.

Contaminated packaging Dispose in accordance with local, state and federal regulations.

14. TRANSPORTATION INFORMATION

Shipping Descriptions

DOT
Proper shipping name Not regulated

TDG
Proper shipping name Not regulated

IATA
Proper shipping name Not regulated

IMDG/IMO
Proper shipping name Not regulated

Marine Pollutants

Chemical name	CAS-No	USDOT Marine Pollutant	Canada TDG Marine Pollutant	IMDG Marine Pollutant
Tungsten Carbide	12070-12-1	-	-	-
Cobalt	7440-48-4	-	-	-
Tantalum Carbide	12070-06-3	-	-	-
Vanadium Carbide	11130-21-5	-	-	-

Special Precautions Multi-modal shipping descriptions are provided for informational purposes and do not consider container size. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

15. REGULATORY INFORMATION

State regulations

U.S. state Right-to-Know regulations

Chemical name	CAS-No	Massachusetts - RTK	New Jersey - RTK	Pennsylvania - RTK
Tungsten Carbide	12070-12-1	-	X	-
Cobalt	7440-48-4	X	X	X
Tantalum Carbide	12070-06-3	-	-	-
Vanadium Carbide	11130-21-5	-	X	-

California Prop. 65 WARNING: This product contains a chemical(s) known to the state of California to cause cancer

Chemical name	CAS-No	California Prop. 65
Tungsten Carbide	12070-12-1	-
Cobalt	7440-48-4	Carcinogen
Tantalum Carbide	12070-06-3	-
Vanadium Carbide	11130-21-5	-

U.S. Federal Regulations

US EPA SARA 313

Chemical name	CAS-No	CERCLA/SARA Hazardous Substances RQ	SARA 313 - Threshold Values
Tungsten Carbide	12070-12-1	-	-
Cobalt	7440-48-4	-	0.1 %
Tantalum Carbide	12070-06-3	-	-
Vanadium Carbide	11130-21-5	-	1.0 %

US EPA SARA 311/312 hazardous categorization Not applicable

International inventories All components of this product are listed on the following inventories: U.S.A. (TSCA 8(b)), Canada (DSL/NDSL) or are exempt.

Chemical name	DSL/NDSL	Inventory - United States - Section 8(b) Inventory (TSCA)	U.S. - TSCA (Toxic Substances Control Act) - Section 12(b) - Export Notification
Tungsten Carbide	X	X	-
Cobalt	X	X	-
Tantalum Carbide	X	X	-
Vanadium Carbide	X	X	-

Legend X - Listed

16. OTHER INFORMATION

NFPA

Health Not available
Flammability Not available
Instability Not available

HMIS

Health Not available
Flammability Not available
Physical hazards Not available

Notice: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA).

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Revision note

Key to abbreviations

ACGIH (American Conference of Governmental Industrial Hygienists)
ATE (Average Toxicity Estimate)
DSL/NDSL (Domestic Substance List/Non-Domestic Substance List)
HMIS (Hazardous Materials Identification System)
IARC (International Agency for Research on Cancer)
IATA (International Air Transport Association)
IMDG/IMO (International Maritime Dangerous Goods/International Maritime Orgnaization)
NFPA (National Fire Protection Association)
NTP (National Toxicology Program)
OEL (Occupational Exposure Level)
OSHA (Occupational Safety and Health Administration of the US Department of Labor)
PEL (Permissible Exposure Limit)
TSCA (Toxic Substance Control Act)
USEPA (United States Environmental Protection Agency)

Disclaimer

The information accumulated herein is believed to be accurate, but is not warranted to be, whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

End of Safety Data Sheet