Safety Data Sheet

Issue date 17-Oct-2018 **Revision date** 17-Oct-2018 **Revision Number** 1

1. IDENTIFICATION

Product identification

Product identifier	Abrasive Mounted Point
Other means of identification	87473
Recommended use	Abrasive
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

This product is classified as an "article" according to Title 29 of the Code of Federal Regulations, OSHA Part 1910.1200. "Article means a manufactured item other than a fluid or particle, which is formed to a specific shape or design during manufacture which has end use function dependent in whole or in part upon its shape or design during end use, and which under normal conditions of use does not release more than very small quantities or trace amounts of a hazardous chemical, and does not pose a physical hazard or health risk to employees.".

Serious eye damage/eye irritation	Category 2

Symbol

Signal word WARNING

Hazard statements H319 - Causes serious eye irritation

Precautionary statements

General P102 - Keep out of reach of children

Prevention P264 - Wash skin thoroughly after handling
P280 - Wear eye protection/ face protection

Response

Eyes P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Storage Not applicable

Disposal Not applicable

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

Physical Hazards Not Otherwise Classified (PHNOC) Not available.

Unknown acute toxicity No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Composition This product is classified as an "article" according to Title 29 of the Code of Federal Regulations, OSHA Part 1910.1200. "Article means a manufactured item other than a fluid or particle, which is formed to a specific shape or design during manufacture which has end use function dependent in whole or in part upon its shape or design during end use, and which under normal conditions of use does not release more than very small quantities or trace amounts of a hazardous chemical, and does not pose a physical hazard or health risk to employees.".

Chemical name	CAS-No	Weight %
Silicon Carbide	409-21-2	60-90
Aluminum Oxide	1344-28-1	60-90
Glass or Glass/Porcelain	N/A	10-30
Sodium Silicate	1344-09-8	7-15
Zircon Fluor	14940-68-2	0.5-1.5
Cobalt Oxide	1308-06-1	.1-1

4. FIRST-AID MEASURES

Necessary first-aid measures

Inhalation Remove to fresh air. Get medical attention if cough or respiratory symptoms develop.

Ingestion If symptoms persist, call a physician.

Skin contact Wash area thoroughly with soap and water. Take off contaminated clothing and wash before reuse.

Eye contact Do not rub eye. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical attention if irritation persists.

Most important symptoms May cause severe eye irritation.

(acute)

Most important symptoms (over-exposure) Eye pain.

Indication of any immediate medical attention and special treatment needed Treat symptomatically. Immediate medical attention is not required.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media Not available.

Specific hazards These products are not flammable or combustible; however, consideration must be given to the potential fire or explosion hazards from the base material being processed. Many materials create flammable or explosive dusts or turnings when machined or ground.

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Use with adequate ventilation to keep exposure levels below the OELS. Wear appropriate respirator when ventilation is inadequate. Wear appropriate protective equipment and clothing during cleanup.

Methods and materials for containment and cleaning up Vacuum or sweep material and place in a disposal container. Prevent entry into waterways, sewers, basements, and confined areas. Avoid dust formation. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

7. HANDLING AND STORAGE

Precautions for safe handling Avoid breathing dust. Avoid contact with skin and eyes. Use with adequate ventilation. Wear suitable eye protection, gloves, and appropriate protective clothing. Wash thoroughly after handling. Consider potential exposure to components of the base materials or coatings being ground or cut. Refer to OSHA substance specific standards for additional work practice requirements where applicable.

Conditions for safe storage, including any incompatibilities Keep away from incompatible materials. Store according to federal, state, and local guidelines.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical name	OSHA PEL (TWA)	ACGIH OEL (TWA)	NIOSH - TWA
Silicon Carbide	15 mg/m³ TWA 5 mg/m³ TWA	10 mg/m³ TWA 3 mg/m³ TWA 0.1 fiber/cm3 TWA	10 mg/m³ TWA 5 mg/m³ TWA
Aluminum Oxide	15 mg/m³ TWA 5 mg/m³ TWA	1 mg/m³ TWA	-
Glass or Glass/Porcelain	-	-	-
Sodium Silicate	-	-	-

Chemical name	OSHA PEL (TWA)	ACGIH OEL (TWA)	NIOSH - TWA
Zircon Fluor	5 mg/m³ TWA	10 mg/m³ STEL 5 mg/m³ TWA	10 mg/m³ STEL 5 mg/m³ TWA
Cobalt Oxide	-	0.02 mg/m³ TWA	-

Appropriate engineering controls

A safety shower and eye wash station should be available for emergency use. Ensure adequate ventilation.

Individual protection measures, such as personal protective equipment

Eye protection

Tightly fitting safety goggles. Safety glasses with side-shields. Face-shield.

Hearing Protection

Use hearing protection if operations are noisy.

Skin and body protection

Protective gloves.

Respiratory protection

If exposure limits are exceeded or irritation is experienced, a NIOSH/MSHA approved respirator is recommended. Consider potential exposure to components of the base materials or coatings being ground or cut. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

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
Silicon Carbide	10 mg/m³ TWA 3 mg/m³ TWA 0.1 fibre/cm3 TWA	10 mg/m³ TWA 3 mg/m³ TWA 0.1 fibre/cm3 TWA	10 mg/m³ TWA 3 mg/m³ TWA 0.1 fiber/cm3 TWA	10 mg/m³ TWA	10 mg/m³ TWA 3 mg/m³ TWA 0.1 fiber/cm3 TWA	10 mg/m³ TWA 3 mg/m³ TWA 0.1 fiber/cm3 TWA	10 mg/m³ TWA 3 mg/m³ TWA 0.1 fibre/cm3 TWA	10 mg/m³ TWA 3 mg/m³ TWA 0.1 fiber/cm3 TWA	10 mg/m³ TWAEV	20 mg/m³ STEL 6 mg/m³ STEL 0.1 fibre/cm3 TWA 10 mg/m³ TWA 3 mg/m³ TWA
Aluminum Oxide	10 mg/m³ TWA	1.0 mg/m³ TWA	1 mg/m³ TWA	10 mg/m³ TWA	1 mg/m³ TWA	1 mg/m³ TWA	1 mg/m³ TWA	1 mg/m³ TWA	10 mg/m³ TWAEV	20 mg/m³ STEL 10 mg/m³ TWA
Glass or Glass/Porcelain	-	-	-	-	-	-	-	-	-	-
Sodium Silicate	-	-	-	-	-	-	-	-	-	-
Zircon Fluor	10 mg/m³ STEL 5 mg/m³ TWA	10 mg/m³ STEL 5 mg/m³ TWA	5 mg/m³ TWA 10 mg/m³ STEL	10 mg/m³ STEL 5 mg/m³ TWA	10 mg/m³ STEL 5 mg/m³ TWA	10 mg/m³ STEL 5 mg/m³ TWA	10 mg/m³ STEL 5 mg/m³ TWA	10 mg/m³ STEL 5 mg/m³ TWA	10 mg/m³ STEV 5 mg/m³ TWAEV	10 mg/m³ STEL 5 mg/m³ TWA
Cobalt Oxide	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	0.06 mg/m³ STEL 0.02 mg/m³ TWA

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Solid
Color	Various
Odor	None
Odor threshold	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	None
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	1.5-3.1
Solubility	Slightly soluble
Partition coefficient (n-octanol/water)	Not applicable
Autoignition temperature °C	Not applicable
Autoignition temperature °F	Not applicable
Decomposition temperature °C	Not applicable
Decomposition temperature °F	Not applicable
Viscosity	Not applicable

10. STABILITY AND REACTIVITY

Reactivity	No dangerous reactions under normal conditions of use.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal conditions of use.
Conditions to avoid	None known.

Incompatible materials Incompatible with strong acids and bases.

Hazardous decomposition products In most cases, the greater hazard is the exposure to the dust and fumes from the material (paint and coatings) being ground. Most of the dust is generated during grinding and cutting of the base material and the potential hazard from this exposure must be evaluated.

11. TOXICOLOGICAL INFORMATION

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

Symptoms Respiratory irritation. Ingestion may cause gastrointestinal irritation. Dust may cause abrasion. Eye contact may cause mechanical irritation.

Delayed and immediate effects as well as chronic effects from short and long-term exposure Repeated or prolonged exposure to respirable crystalline silica may cause chronic lung injury (silicosis). Silicosis is a fibronodular lung disease that occurs after occupational exposure to crystalline silica for 5 years or longer. Inhalation may cause shortness of breath, limitation of chest expansion, dry cough, and a lessened capacity for work. Chronic effects may be irritated by smoking. Prolonged exposure to elevated noise levels during operations may affect hearing. In most cases, the greater hazard is the exposure to the dust and fumes from the material (paint and coatings) being ground. Most of the dust is generated during grinding and cutting of the base material and the potential hazard from this exposure must be evaluated.

Numerical measures of toxicity

Chemical name	Inhalation LC50:	Dermal LD50:	Oral LD50:
Silicon Carbide	-	-	-
Aluminum Oxide	-	-	> 5000 mg/kg (Rat)
Glass or Glass/Porcelain	-	-	-
Sodium Silicate	-	> 4640 mg/kg (Rabbit)	= 1960 mg/kg (Rat)
Zircon Fluor	-	-	-
Cobalt Oxide	> 4.83 mg/L (Rat) 4 h	> 2000 mg/kg (Rat)	> 5 g/kg (Rat)

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
Silicon Carbide	A2	Group 2A	Listed	-
Aluminum Oxide	A4	-	-	-
Glass or Glass/Porcelain	-	-	-	-
Sodium Silicate	-	-	-	-
Zircon Fluor	A4	-	-	-
Cobalt Oxide	A3	Group 2B	Listed	Reasonably Anticipated

Canadian Province carcinogenicity limits

Chemical name	Alberta - Carcinogen	British Columbia - Carcinogen	Manitoba - Carcinogen	New Brunswick - Carcinogen	Nova Scotia - Carcinogen	Quebec - Carcinogen
Silicon Carbide	A2 - Suspected Human Carcinogen (fibrous, including whiskers)	ACGIH A2	ACGIH A2	ACGIH A4	ACGIH A2	-
Aluminum Oxide	-	-	ACGIH A4	ACGIH A4	ACGIH A4	-
Glass or Glass/Porcelain	-	-	-	-	-	-
Sodium Silicate	-	-	-	-	-	-
Zircon Fluor	-	-	ACGIH A4	ACGIH A4	ACGIH A4	-
Cobalt Oxide	-	IARC 2B	ACGIH A3	ACGIH A3	ACGIH A3	C3 carcinogen

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish
Silicon Carbide	-	-
Aluminum Oxide	-	-
Glass or Glass/Porcelain	-	-
Sodium Silicate	-	301 - 478: 96 h Lepomis macrochirus mg/L LC50 3185: 96 h Brachydanio rerio mg/L LC50 semi-static
Zircon Fluor	-	-
Cobalt Oxide	88: 72 h Pseudokirchneriella subcapitata mg/L EC50	136: 96 h Brachydanio rerio mg/L LC50 static

Persistence and degradability Not applicable.

Bioaccumulation Not applicable

Chemical name	CAS-No	Partition coefficient (log Kow)
Silicon Carbide 409-21-2	409-21-2	-
Aluminum Oxide 1344-28-1	1344-28-1	-
Glass or Glass/Porcelain N/A	N/A	-
Sodium Silicate 1344-09-8	1344-09-8	-
Zircon Fluor 14940-68-2	14940-68-2	-
Cobalt Oxide 1308-06-1	1308-06-1	-

Mobility in soil Not available.

Other adverse effects Not available

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
Silicon Carbide	409-21-2	-	-	-
Aluminum Oxide	1344-28-1	-	-	-
Glass or Glass/Porcelain	N/A	-	-	-
Sodium Silicate	1344-09-8	-	-	-
Zircon Fluor	14940-68-2	-	-	-
Cobalt Oxide	1308-06-1	-	-	-

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
Silicon Carbide	409-21-2	X	X	X
Aluminum Oxide	1344-28-1	X	X	X
Glass or Glass/Porcelain	N/A	-	-	-
Sodium Silicate	1344-09-8	-	-	-

Chemical name	CAS-No	Massachusetts - RTK	New Jersey - RTK	Pennsylvania - RTK
Zircon Fluor	14940-68-2	-	-	-
Cobalt Oxide	1308-06-1	-	X	X

California Prop. 65

Chemical name	CAS-No	California Prop. 65
Silicon Carbide	409-21-2	-
Aluminum Oxide	1344-28-1	-
Glass or Glass/Porcelain	N/A	-
Sodium Silicate	1344-09-8	-
Zircon Fluor	14940-68-2	-
Cobalt Oxide	1308-06-1	-

California Proposition 65 This product does not contain any Proposition 65 chemicals

U.S. Federal Regulations

US EPA SARA 313

Chemical name	CAS-No	CERCLA/SARA Hazardous Substances RQ	SARA 313 - Threshold Values
Silicon Carbide	409-21-2	-	-
Aluminum Oxide	1344-28-1	-	1.0 %
Glass or Glass/Porcelain	N/A	-	-
Sodium Silicate	1344-09-8	-	-
Zircon Fluor	14940-68-2	-	-
Cobalt Oxide	1308-06-1	-	0.1 %

US EPA SARA 311/312 hazardous categorization Not applicable

International inventories

Chemical name	DSL/NDSL	Inventory - United States - Section 8(b) Inventory (TSCA)	U.S. - TSCA (Toxic Substances Control Act) - Section 12(b) - Export Notification
Silicon Carbide	X	X	-
Aluminum Oxide	X	X	-
Glass or Glass/Porcelain	-	-	-
Sodium Silicate	X	X	-
Zircon Fluor	X	X	-
Cobalt Oxide	X	X	-

Legend X - Listed

16. OTHER INFORMATION

NFPA

Health 1
Flammability 0

Instability	0

HMIS

Health	1
Flammability	0
Physical hazards	0

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).

Prepared by Regulatory Affairs

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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