Safety Data Sheet

Issue date 26-Sep-2018 **Revision date** 15-Jan-2020 **Revision Number** 3

1. IDENTIFICATION

Product identification

Product identifier	Blue-Kote II High-Density Flap Disc
Other means of identification	16572
Recommended use	Abrasive
Restrictions on use	For industrial use only, Restricted to professional users

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)

Website https://www.lawsonproducts.com

2. HAZARD(S) IDENTIFICATION

Hazard Classification While this material is not classified as hazardous under OSHA, GHS or WHMIS 2015 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 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 %
Glass fiber backing	NONE	45-55
Aluminum Oxide	1344-28-1	15-25
Zirconium	7440-67-7	3-13
Cryolite	13775-53-6	1-15
Potassium Fluoroborate	14075-53-7	1-15
Epoxy resin	NONE	5
Silica	7631-86-9	<2
Formaldehyde	50-00-0	<0.1

4. FIRST-AID MEASURES

Necessary first-aid measures

Inhalation Remove to fresh air. If breathing is difficult, give oxygen. Seek medical attention.

Ingestion Seek medical attention.

Skin contact Wash area thoroughly with soap and water. Seek medical attention if irritation occurs.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.

Most important symptoms (acute) May cause eye irritation. May cause respiratory irritation. Coughing. Shortness of breath. Prolonged inhalation of high concentration of dust may cause adverse effects on the lungs. May cause skin irritation. Dust may cause abrasion.

Most important symptoms (over-exposure) None known.

Indication of any immediate medical attention and special treatment needed Not applicable.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Dry chemical. Foam. Water. Carbon dioxide (CO_2).

Unsuitable extinguishing media Not available.

Specific hazards None known.

Special protective equipment for fire-fighters In the event of fire, wear self-contained breathing apparatus and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Wear appropriate protective equipment and clothing during cleanup.

Methods and materials for containment and cleaning up Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling Do not breathe dust/fume/gas/mist/vapors/spray. Handle with care to avoid stings or cuts.

Conditions for safe storage, including any incompatibilities Keep at temperature between 0°C and 40°C degrees. Store at 55-66% air humidity.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical name	OSHA PEL (TWA)	ACGIH OEL (TWA)	NIOSH - TWA
Glass fiber backing	-	-	-
Aluminum Oxide	15 mg/m³ TWA 5 mg/m³ TWA	1 mg/m³ TWA	-
Zirconium	5 mg/m³ TWA	10 mg/m³ STEL 5 mg/m³ TWA	10 mg/m³ STEL 5 mg/m³ TWA 5 mg/m³ TWA
Cryolite	-	-	-
Potassium Fluoroborate	2.5 mg/m³ TWA	2.5 mg/m³ TWA	2.5 mg/m³ TWA
Epoxy resin	-	-	-
Silica	50 µg/m³ TWA	-	6 mg/m³ TWA
Formaldehyde	2 ppm STEL (see 29 CFR 1910.1048) 0.75 ppm TWA	0.3 ppm STEL 0.1 ppm TWA	0.016 ppm TWA

Appropriate engineering controls Adequate ventilation should be provided to keep exposure levels below current acceptable exposure limits. Consider potential exposure to components of the base materials or coatings being ground or cut.

Individual protection measures, such as personal protective equipment

Eye protection ANSI approved safety glasses or splash goggles with face shield are recommended.

Hearing Protection Use hearing protection if operations are noisy.

Skin and body protection Wear suitable protective clothing. Leather gloves.

Respiratory protection Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. 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. Consider potential exposure to components of the base materials or coatings being ground or cut. Respiratory protection must be provided in accordance with current local regulations.

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
Glass fiber backing	-	-	-	-	-	-	-	-	-	-
Aluminum Oxide	10 mg/m³ TWA	1.0mg/m³TWA	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
Zirconium	10 mg/m³ STEL 5 mg/m³ TWA	10mg/m³STEL 5mg/m³TWA	5 mg/m³ TWA 10 mg/m³ STEL	10 mg/m³ STEL 5 mg/m³ TWA	10 mg/m³ STEL 5 mg/m³ TWA 5 mg/m³ TWA	10 mg/m³ STEL 5 mg/m³ TWA	10 mg/m³ STEL 5 mg/m³ TWA 5 mg/m³ TWA	10 mg/m³ STEL 5 mg/m³ TWA 5 mg/m³ TWA	10 mg/m³ STEV 5 mg/m³ TWAEV 5 mg/m³ TWAEV	10 mg/m³ STEL 5 mg/m³ TWA 5 mg/m³ TWA
Cryolite	-	-	-	-	-	-	-	-	-	-
Potassium Fluoroborate	2.5 mg/m³ TWA	2.5mg/m³TWA	2.5 mg/m³ TWA	2.5 mg/m³ TWA	2.5 mg/m³ TWA	2.5 mg/m³ TWA	2.5 mg/m³ TWA	2.5 mg/m³ TWA	2.5 mg/m³ TWAEV	5 mg/m³ STEL 2.5 mg/m³ TWA
Epoxy resin	-	-	-	-	-	-	-	-	-	-
Silica	-	-	-	-	-	-	-	-	-	-
Formaldehyde	1 ppm Ceiling 1.3 mg/m³ Ceiling 0.75 ppm TWA 0.9 mg/m³ TWA	1ppmCeiling 0.3ppmTWA	0.1 ppm TWA 0.3 ppm STEL	1.5 ppm STEL 0.5 ppm TWA	0.3 ppm STEL 0.1 ppm TWA	0.3 ppm STEL 0.1 ppm TWA	1.5 ppm Ceiling 1 ppm STEL	0.3 ppm STEL 0.1 ppm TWA	2 ppm Ceiling 3 mg/m³ Ceiling	0.3 ppm Ceiling

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state Solid

Odor Odorless

Odor threshold Not available

pH Not available

Melting point/range °C Not available

Melting point/range °F Not available

Boiling point/range °C Not available

Boiling point/range °F Not available

Flash point °C / °F Not available

Evaporation rate Not available

Flammability (Solid, Gas) Not available

Lower explosion limit Not available

Upper explosion limit Not available

Vapor pressure	Not available
Vapor density	Not available
Relative density	Not available
Solubility	Not available
Partition coefficient (n-octanol/water)	Not available
Autoignition temperature °C	Not available
Autoignition temperature °F	Not available
Decomposition temperature °C	Not available
Decomposition temperature °F	Not available
Viscosity	Not available

10. STABILITY AND REACTIVITY

Reactivity	Not available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal conditions of use.
Conditions to avoid	None known.
Incompatible materials	None.
Hazardous decomposition products	Handling or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose, and throat.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	Not classified.
Symptoms	Not classified.
Delayed and immediate effects as well as chronic effects from short and long-term exposure	Not classified.

Numerical measures of toxicity

Chemical name	Inhalation LC50:	Dermal LD50:	Oral LD50:
Glass fiber backing	-	-	-
Aluminum Oxide	-	-	> 5000 mg/kg (Rat)
Zirconium	-	-	-
Cryolite	= 4470 µg/L (Rat) 4 h	> 2100 mg/kg (Rabbit)	> 5 g/kg (Rat)
Potassium Fluoroborate	-	-	= 5854 mg/kg (Rat)
Epoxy resin	-	-	-
Silica	> 2.2 mg/L (Rat) 1 h	> 2000 mg/kg (Rabbit)	= 7900 mg/kg (Rat)
Formaldehyde	= 0.578 mg/L (Rat) 4 h	= 270 mg/kg (Rabbit)	= 100 mg/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
Glass fiber backing	-	-	-	-
Aluminum Oxide	A4	-	-	-
Zirconium	A4	-	-	-
Cryolite	-	-	-	-
Potassium Fluoroborate	A4	Group 3	-	-
Epoxy resin	-	-	-	-
Silica	-	Group 1 Group 3	Listed	Known Carcinogen
Formaldehyde	A1	Group 1	Listed	Known Carcinogen

Canadian Province carcinogenicity limits

Chemical name	Alberta - Carcinogen	British Columbia - Carcinogen	Manitoba - Carcinogen	New Brunswick - Carcinogen	Nova Scotia - Carcinogen	Quebec - Carcinogen
Glass fiber backing	-	-	-	-	-	-
Aluminum Oxide	-	-	ACGIH A4	ACGIH A4	ACGIH A4	-
Zirconium	-	-	ACGIH A4	ACGIH A4	ACGIH A4	-
Cryolite	-	-	-	-	-	-
Potassium Fluoroborate	-	-	ACGIH A4	ACGIH A4	ACGIH A4	-
Epoxy resin	-	-	-	-	-	-
Silica	-	-	-	-	-	-
Formaldehyde	A2 - Suspected Human Carcinogen	IARC 1 ACGIH A1	ACGIH A1	ACGIH A2	ACGIH A1	C2 carcinogen

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish
Glass fiber backing	-	-
Aluminum Oxide	-	-
Zirconium	-	-
Cryolite	-	-
Potassium Fluoroborate	95: 96 h Desmodesmus subspicatus mg/L EC50	-
Epoxy resin	-	-
Silica	440: 72 h Pseudokirchneriella subcapitata mg/L EC50	5000: 96 h Brachydanio rerio mg/L LC50 static
Formaldehyde	-	1510: 96 h Lepomis macrochirus µg/L LC50 static

Chemical name	Algae/aquatic plants	Fish
		22.6 - 25.7: 96 h Pimephales promelas mg/L LC50 flow-through 41: 96 h Brachydanio rerio mg/L LC50 static 100 - 136: 96 h Oncorhynchus mykiss mg/L LC50 static 23.2 - 29.7: 96 h Pimephales promelas mg/L LC50 static 0.032 - 0.226: 96 h Oncorhynchus mykiss mL/L LC50 flow-through

Persistence and degradability No data available.

Bioaccumulation

Chemical name	CAS-No	Partition coefficient (log Kow)
Glass fiber backing NONE	NONE	-
Aluminum Oxide 1344-28-1	1344-28-1	-
Zirconium 7440-67-7	7440-67-7	-
Cryolite 13775-53-6	13775-53-6	-
Potassium Fluoroborate 14075-53-7	14075-53-7	-
Epoxy resin NONE	NONE	-
Silica 7631-86-9	7631-86-9	-
Formaldehyde 50-00-0	50-00-0	0.35 25 °C

Mobility in soil Not available.

Other adverse effects None known

13. DISPOSAL CONSIDERATIONS

Disposal information Collect, transport, store or dispose in accordance with local, state, provincial 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
Glass fiber backing	NONE	-	-	-
Aluminum Oxide	1344-28-1	-	-	-
Zirconium	7440-67-7	-	-	-
Cryolite	13775-53-6	-	-	-
Potassium Fluoroborate	14075-53-7	-	-	-
Epoxy resin	NONE	-	-	-
Silica	7631-86-9	-	-	-
Formaldehyde	50-00-0	-	-	-

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
Glass fiber backing	NONE	-	-	-
Aluminum Oxide	1344-28-1	X	X	X
Zirconium	7440-67-7	X	X	X
Cryolite	13775-53-6	-	-	-
Potassium Fluoroborate	14075-53-7	-	X	-
Epoxy resin	NONE	-	-	-
Silica	7631-86-9	X	-	X
Formaldehyde	50-00-0	X	X	X

California Prop. 65

Chemical name	CAS-No	California Prop. 65
Glass fiber backing	NONE	-
Aluminum Oxide	1344-28-1	-
Zirconium	7440-67-7	-
Cryolite	13775-53-6	-
Potassium Fluoroborate	14075-53-7	-
Epoxy resin	NONE	-
Silica	7631-86-9	Carcinogen
Formaldehyde	50-00-0	Carcinogen

U.S. Federal Regulations

US EPA SARA 313

Chemical name	CAS-No	CERCLA/SARA Hazardous Substances RQ	SARA 313 - Threshold Values
Glass fiber backing	NONE	-	-
Aluminum Oxide	1344-28-1	-	1.0 %
Zirconium	7440-67-7	-	-
Cryolite	13775-53-6	-	-
Potassium Fluoroborate	14075-53-7	-	-
Epoxy resin	NONE	-	-
Silica	7631-86-9	-	-
Formaldehyde	50-00-0	100 lb 45.4 kg	0.1 %

US EPA SARA 311/312 hazardous categorization Not applicable

Chemical name	DSL/NDSL	Inventory - United States - Section 8(b) Inventory (TSCA)	U.S. - TSCA (Toxic Substances Control Act) - Section 12(b) - Export Notification
Glass fiber backing	-	-	-
Aluminum Oxide	X	X	-
Zirconium	X	X	-
Cryolite	X	X	-
Potassium Fluoroborate	X	X	-
Epoxy resin	-	-	-
Silica	X	X	-
Formaldehyde	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).

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