# Safety Data Sheet

**Issue date** 25-Sep-2018 **Revision date** 15-Jan-2020 **Revision Number** 2

## 1. IDENTIFICATION

### Product identification

| | |
|---|---|
| Product identifier | Blue-Kote Flap Disc |
| Other means of identification | 29523 |
| 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<br>5 mg/m³ TWA | 1 mg/m³ TWA | - |
| Zirconium | 5 mg/m³ TWA | 10 mg/m³ STEL<br>5 mg/m³ TWA | 10 mg/m³ STEL<br>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)<br>0.75 ppm TWA | 0.3 ppm STEL<br>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<br>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<br>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<br>NONE | NONE | - |
| Aluminum Oxide<br>1344-28-1 | 1344-28-1 | - |
| Zirconium<br>7440-67-7 | 7440-67-7 | - |
| Cryolite<br>13775-53-6 | 13775-53-6 | - |
| Potassium Fluoroborate<br>14075-53-7 | 14075-53-7 | - |
| Epoxy resin<br>NONE | NONE | - |
| Silica<br>7631-86-9 | 7631-86-9 | - |
| Formaldehyde<br>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<br>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

**Issue date** 26-Sep-2018

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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**