

MATERIAL SAFETY DATA SHEET

Lightweight Coated paper (LWC)

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Lightweight Coated paper (LWC)
Product Use: For printing
Manufacturer's Name: Kruger Inc., 3285 Chemin Bedford, Montreal, Québec, H3S 1G5, Canada
Emergency Telephone: 514-343-3100
Manufacturing locations: Île-de-la-Potherie C.P. 128, Trois-Rivières, Québec, G9A 5E9, Canada
Download: <http://www.kruger.com/html/en/papierspublications/produits.html>
Date MSDS Prepared: 2010-Aug-26

SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	%	CAS Number	Exposure Limit	LD ₅₀
Cellulose pulp	50-85	65996-61-4	ACGIH TLV-TWA (8-hours) - 10mg/m ³ total dust NIOSH REL-TWA (10-hours) - 5mg/m ³ respirable dust - 10mg/m ³ total dust OSHA PEL-TWA (8-hours) - 5mg/m ³ respirable dust - 15mg/m ³ total dust	N/A
Kaolin	15-50	1332-58-7	ACGIH TLV-TWA(-A4)* (8-hours) - 2mg/m ³ respirable dust NIOSH REL-TWA (10-hours) - 5mg/m ³ respirable dust - 10mg/m ³ total dust OSHA PEL-TWA (8-hours) - 5mg/m ³ respirable dust - 15mg/m ³ total dust	>5,000mg/kg Oral, Rats
Calcium carbonate	15-50	471-34-1	ACGIH TLV-TWA (8-hours) - 3mg/m ³ respirable dust - 10mg/m ³ total dust NIOSH REL-TWA (10-hours) - 5mg/m ³ respirable dust - 10mg/m ³ total dust OSHA PEL-TWA (8-hours) - 5mg/m ³ respirable dust - 15mg/m ³ total dust	6,450mg/kg Oral, Rats
Starch	<3	9005-25-8	ACGIH TLV-TWA (8-hours) - 10mg/m ³ total dust NIOSH REL-TWA (10-hours) - 5mg/m ³ respirable dust - 10mg/m ³ total dust OSHA PEL-TWA (8-hours) - 5mg/m ³ respirable dust - 15mg/m ³ total dust	N/A
Titanium dioxide	<3	13463-67-7	ACGIH TLV-TWA(-A4)* (8-hours) - 10mg/m ³ total dust OSHA PEL-TWA (8-hours) - 15mg/m ³ total dust	>25,000 mg/kg Oral, Rats

*Note: (-A4) indicates that kaolin is "Not Classifiable as a Human Carcinogen" by ACGIH

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SECTION 5 – FIRE FIGHTING MEASURES (continued)

HMIS/NFPA Rating: Health = 1
Flammability = 1
Reactivity = 0
Personal Protection Index = 1
Definitions: 0 = Least, 1 = Slight, 2 = Moderate, 3 = High, 4 = Extreme

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Not applicable for product in purchased form. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Sweep or vacuum dried product and dispose of properly. Use NIOSH/MSHA approved dust mask and goggles where ventilation is not possible and exposure limits may be exceeded.

SECTION 7 – HANDLING AND STORAGE

Avoid generating airborne dust. Protect from excessive moisture and keep away from open flame. Maintain good housekeeping practices.

SECTION 8 – EXPOSURE CONTROL / PERSONAL PROTECTION

Ventilation: Local Exhaust: As needed to keep dust below exposure limit
Mechanical (General): As needed to keep dust below exposure limit
Special: None
Other: None

Respiratory Protection: Not applicable for product in purchased form. NIOSH/MSHA approved dust respirator, if needed.

Protective Gloves: Not applicable for product in purchased form. Wear protective gloves to protect overly-sensitive skin.

Eye Protection: Not applicable for product in purchased form. Wear goggles or safety glasses if needed.

Other Protective Clothing or Equipment: Not applicable for product in purchased form.

Work/Hygienic Practices: Not applicable for product in purchased form.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White
Physical State: Solid in rolled form
Odour: Odourless
Odour Threshold: N/A
Density [g/cm³]: 1.10
Evaporation Rate: N/A
Vapour Density: N/A
Vapour Pressure: N/A
pH: N/A
Boiling Point: N/A
Freezing Point: N/A
Oil/water Partition Coefficient: N/A
Solubility in Water: Insoluble

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SECTION 10 – STABILITY AND REACTIVITY

Chemical stability:	Stable
Incompatibility (Materials to Avoid):	Avoid contact with oxidizing agents.
Hazardous Decomposition Product:	Carbone dioxide, Carbone monoxide, smoke
Hazardous Polymerization:	Will not occur
Conditions to Avoid:	None in designed use
Physical Hazards:	Material not reactive
Sensitivity to Mechanical Impact:	N/A
Sensitivity to Static Discharge:	N/A

SECTION 11 – TOXICOLOGICAL INFORMATION

Toxicity data: None available in product purchased form.
Eye/Skin Effects: Not expected to be a skin irritant under normal use. Contact with eyes may cause transitory irritation.

Acute Oral/Inhalation Effects:

Cellulose LD ₅₀ :	N/A
Kaolin LD ₅₀ :	>5,000mg/kg Oral, Rats
Calcium carbonate LD ₅₀ :	6,450mg/kg Oral, Rats
Starch LD ₅₀ :	N/A
Titanium dioxide LD ₅₀ :	>25,000 mg/kg Oral, Rats

SECTION 12 – ECOLOGICAL INFORMATION

Lightweight Coated paper is considered inert in the environment. Cellulose fiber biodegrades in water. Calcium carbonate dissociates in water and its ions are widely found in natural waters. If contaminated, evaluate according to all applicable Federal, State, and Local laws and regulations.

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Disposal: If discarded in purchased form, this product may be landfilled or incinerated. However, it is the user's responsibility to determine at the time of disposal whether your product meets EPA RCRA criteria for hazardous waste. Dispose of in an approved landfill in accordance with federal, state, and local regulations. Wastes are not hazardous as defined by RCRA (40 CFR, part 261)

SECTION 14 – TRANSPORT INFORMATION

Mode of Transportation:	Air, land or water. The US Department of Transportation does not regulate it as hazardous material.
Proper Shipping Name:	Not regulated
USDT Hazard Classification:	Not classified
UN, NA ID Number:	Not regulated
Packing Group:	Not regulated

SECTION 15 – REGULATORY INFORMATION

It is the user's responsibility to determine what regulatory information is relevant to the usage of this product.

CERCLA: Material and its ingredients are not reportable under CERCLA.

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SECTION 15 – REGULATORY INFORMATION (continued)

DSL: Cellulose pulp, kaolin, calcium carbonate and titanium dioxide are listed on the DSL.

FDA: This product is not intended to be ingested or used as a food contact material.

GRAS:

Cellulose pulp: Listed in the Code of Federal Regulations 21 CFR 186.1673 as an indirect food substance which is Generally Recognized as Safe (GRAS).

Kaolin: Listed in the Code of Federal Regulations 21 CFR 186.1256 as an indirect food substance which is Generally Recognized as Safe (GRAS).

Calcium carbonate: Listed in the Code of Federal Regulations 21 CFR 184.1191 as a direct food substance affirmed as generally recognized as safe (GRAS).

IARC: Titanium dioxide: Group 2B carcinogen "possibly carcinogen to humans"

NTP: N/A

OSHA: Cellulose pulp, kaolin, calcium carbonate, starch and titanium dioxide are regulated as physical or chemical hazards.

RCRA: This material (as a product) is not defined as a hazardous waste under RCRA 40CFR Part 261.

TSCA: Kaolin and calcium carbonate are listed in the TSCA inventory but are not otherwise regulated by TSCA

USDT Hazard Classification: Not classified

US State Regulations:

California Proposition 65: This product does not contain substances identified on the Proposition 65 list at levels that pose a significant risk for purposes of Section 25249.10(c) or result in an observable effect for purposes of Section 25249.10(c) of the Act.

Massachusetts: Titanium dioxide is listed by the state of Massachusetts.

Pennsylvania: Cellulose, kaolin, calcium carbonate and titanium dioxide are listed by the state of Pennsylvania.

SARA 313: This product does not contain any chemical ingredient with known CAS numbers that exceed the de minimis reporting levels established by SARA Title III, section 313 and 40 CFR section 372.

SARA 311/312: This product has been reviewed according the EPA "Hazard Categories: promulgated under SARA Title III, Sections 311 and 312 and is considered, under applicable definitions, to meet the following categories:

An immediate (acute) health hazard:	No
A delayed (chronic) health hazard:	No
A corrosive hazard:	No
A fire hazard:	No
A reactivity hazard:	No
A sudden release hazard:	No

WHIMIS: Kaolin and titanium dioxide are controlled products as D2A.

SECTION 16 – OTHER INFORMATION

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Date revised: 2010-Aug-26

Additional information: The data in this Material Safety Data Sheet relates only to the specific material designated herein. It does not relate to use in combination with any other material or in any process. Kruger Inc. believes the statements, technical information, and recommendations above are accurate and are provided in good faith, but are given without warranty or guarantee of any kind. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using

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SECTION 16 – OTHER INFORMATION (continued)

this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

Lightweight Coated paper (LWC) is made for printing applications. It is the user's responsibility to determine if the product is suitable for other proposed application and to follow necessary safety precautions accordingly. The user has the responsibility to make sure that this MSDS sheet is the most up-to-date issue.

ACGIH:	American Conference of Industrial Hygienists
CAS:	Chemical Abstracts Service
CERCLA:	Comprehensive Environmental Response, Compensation, and Liability Act
CFR:	Code of Federal Regulations
DSL:	Domestic Substance List
EPA:	US Environmental Protection Agency
FDA:	US Food and Drug Administration
GRAS:	Generally recognized as safe
IARC:	International Agency for Research on Cancer
LD₅₀:	Lethal Dose that kills half (50%) of the animals tested
LEL:	Lower Exposure Limit
MSHA:	Mine Safety and Health Administration
NA:	North American
N/A:	Not Applicable
NIOSH:	National Institute for Occupational Safety and Health
NTP:	National Toxicology Program
OSHA:	Occupational Safety and Health Administration
PEL:	Permissible Exposure Limit
RCRA:	Resource Conservation and Recovery Act
REL:	Recommended Exposure Limit
SARA:	Superfund Amendment and Reauthorization Act
TLV:	Threshold Limit Value
TSCA:	Toxic Substance Control Act
TWA:	Time-Weighted Average
UN:	United Nations
USDT:	US Department of Transportation
WHIMIS:	Workplace Hazardous Materials Information System