Material Safety Data Sheet
Weyerhaeuser Writing and Printing Paper

Weyerhaeuser Company
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Emergency Phone: (253) 924-5000
Additional Information: (253) 924-6367

1. Product Identification

Product	Manufacturing Location
Writing and Printing Paper	USA: Longview, WA; Rothschild, WI; Plymouth, NC, Canada: Dryden ON; Prince Albert, SK;

Synonyms: Business Papers, Offset, Opaque, Cover, Envelope, Forms Bond, Tablet, Xerocopy, Cougar,® Cougar Cover, Cougar Opaque, Cougar Opaque Digital, Cougar Natural, Lynx Opaque,® Starbrite Opaque, Husky® Offset, Husky White Print, Husky Return Card, First Choice,® Weyerhaeuser Laser Copy, Weyerhaeuser Office Paper, Weyerhaeuser Recycled Laser Copy, Recycled Opaque, Datatech,® Columbia Copy, Carolina Xerocopy, Saturn One

2. Hazardous Ingredients/Identity Information

Name	CAS#	Percent	Agency	Exposure Limits	Comments
Pulp (cellulose)	9004-34-6	77-89	OSHA OSHA ACGIH	PEL-TWA 15 mg/m3 PEL-TWA 5 mg/m3 TLV-TWA 10 mg/m3	Total dust Respirable dust Total dust
Calcium carbonate	1317-65-3	9-21	OSHA OSHA ACGIH	PEL-TWA 15 mg/m3 PEL-TWA 5 mg/m3 TLV-TWA 10 mg/m3	Total dust Respirable dust Total dust
Starch	9005-25-8	3-6	OSHA OSHA ACGIH	PEL-TWA 15 mg/m3 PEL-TWA 5 mg/m3 TLV-TWA 10 mg/m3	Total dust Respirable dust Total dust

3. Hazard Identification

Appearance and Odor: The products are odorless writing and printing papers.
Primary Health Hazards: The primary health hazard posed by these products is thought to be due to exposure to dust.
Primary Route(s) of Exposure:

( ) Ingestion:
( ) Skin:
(X) Inhalation: Dust

Medical Conditions Generally Aggravated by Exposure: Cellulose dust may aggravate preexisting respiratory conditions or allergies.
Chronic Health Hazards: Paper (cellulose) dust is a biologically inert dust that has little or no effect on the lungs and does not produce significant organic disease or toxic effect when allowable exposure limits are met.

3. Hazard Identification (cont.)

Carcinogenicity Listing:

( ) NTP:	Not listed
( ) IARC Monographs:	Not listed
( ) OSHA Regulated:	Not listed

4. Emergency and First-Aid Procedures

Ingestion: Not applicable for product in purchased form.
Eye Contact: Dust may mechanically irritate the eyes, resulting in redness or watering. Treat dust in eye as foreign object. Flush with water to remove dust particles. Get medical help if irritation persists.
Skin Contact: Not applicable for product in purchased form.
Skin Absorption: Not applicable for product in purchased form.
Inhalation: Excessive dust concentrations may cause unpleasant obstruction in the nasal passages. Remove to fresh air. Get medical help if persistent irritation, severe coughing or breathing difficulty occurs.

5. Fire and Explosion Data

Flash Point (Method Used): NAP
Flammable Limits:
LEL: See below under "Unusual Fire and Explosion Hazards"
UEL: NAP
Extinguishing Media: Water.
Autoignition Temperature: 450^{o}F (232^{o}C)
Special Firefighting Procedures: None.
Unusual Fire and Explosion Hazards: Depending on moisture content, particle diameter, and rate of heating, cellulose dust may explode in the presence of an ignition source. An airborne concentration of 30,000 mg/m^3 is often used as the LEL for cellulose pulp.

6. Accidental Release Measures

Steps to be Taken In Case Material Is Released or Spilled: Not applicable for product in purchased form. Sweep or vacuum dust for recovery or disposal. Use NIOSH/MSHA approved dust respirator and goggles where ventilation is not possible and exposure limits may be exceeded.

7. Handling and Storage

Precautions to be Taken In Handling and Storage: No special handling precautions are required for product in purchased form. Keep in cool, dry place away from open flame.

8. Exposure Control Measures

Personal Protective Equipment:
RESPIRATORY PROTECTION -- Not applicable for product in purchased form. A NIOSH/MSHA-approved dust respirator is recommended when allowable exposure limits may be exceeded.
PROTECTIVE GLOVES -- Not applicable for product in purchased form.

8. Exposure Control Measures (cont.)

EYE PROTECTION -- Not applicable for product in purchased form. However, goggles or safety glasses are recommended if the product is used in such a way as to generate high dust levels.
OTHER PROTECTIVE CLOTHING OR EQUIPMENT -- Not applicable for product in purchased form. Outer garments may be desirable in extremely dusty areas.
WORK/HYGIENE PRACTICES -- Not applicable for product in purchased form.

Ventilation:

LOCAL EXHAUST -- Provide local exhaust as needed so that exposure limits are met.
MECHANICAL (GENERAL) -- Provide general ventilation in processing and storage areas so that exposure limits are met.
SPECIAL -- None.
OTHER -- None.

9. Physical/Chemical Properties

Boiling Point (@ 760 mm Hg):	NAP
Vapor Pressure (mm Hg):	NAP
Vapor Density (air = 1; 1 atm):	NAP
Specific Gravity (H_2O = 1):	0.8
Melting Point:	NAP
Evaporation Rate (Butyl acetate = 1):	NAP
Solubility in Water (% by weight):	Insoluble
% Volatile by Volume [@ 70°F (21°C)]:	NAP
pH:	NAP

10. Stability and Reactivity

Stability: ( ) Unstable (x) Stable
Conditions to Avoid: Avoid open flame and sparks.
Incompatibility (Materials to Avoid): NAP
Hazardous Decomposition or By-Products: Combustion products include carbon monoxide and carbon dioxide.
Hazardous Polymerization: ( ) May occur (x) Will not occur

11. Toxicological Information

None available for product in purchased form. Individual component information is listed below if available.

Cellulose: LC50 (rats, inhalation) = 5,800 mg/m3/4 hours.

Calcium carbonate:

Applied to rabbit eyes with no toxic effects noted (concentration and exposure duration not specified). Rats exposed to 81.2 mg/m3 for 90 minutes were sacrificed 1 hour and 21 hours after exposure; no pathologic effects were noted.

Starch: None; treated as a nuisance dust.

Source: *NIOSH Registry of Toxic Effects of Chemical Substances (RTECS)*, National Institute for Occupational Safety and Health (provided by Canadian Centre for Occupational Health and Safety, CCINFO May 1995); Lewis, R.J., Sr. 1992, *Sax's Dangerous Properties of Industrial Materials*, Eighth Edition, Van Nostrand Reinhold, NY.

12. Ecological Information

No information available at this time.

13. Disposal Considerations

Waste Disposal Method: If disposed or discarded in purchased form, incineration or dry land disposal is acceptable. It is, however, the user's responsibility to determine at the time of disposal whether your product meets EPA RCRA criteria for hazardous waste. Dispose in accordance with federal, state, and local regulations.

14. Transport Information

Not regulated as a hazardous material by the U.S. Department of Transportation.

15. Regulatory Information

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

16. Additional Information

Date Prepared: 10/16/91
Date Revised: 03/13/01
Prepared By: Health & Safety Risk Management
User's Responsibility: The information contained in this Material Safety Data Sheet is based on the experience of occupational health and safety professionals and comes from sources believed to be accurate or otherwise technically correct. It is the user's responsibility to determine if this information is suitable for their applications and to follow safety precautions as may be necessary. The user has the responsibility to make sure that this sheet is the most up-to-date issue.

Definition of Common Terms:

ACGIH	=	American Conference of Governmental Industrial Hygienists
C	=	Ceiling Limit
CAS#	=	Chemical Abstracts System Number
EPA	=	U.S. Environmental Protection Agency
IARC	=	International Agency for Research on Cancer
LCLo	=	Lowest concentration in air resulting in death
LC50	=	Concentration in air resulting in death to 50% of experimental animals
LDLo	=	Lowest dose resulting in death
LD50	=	Administered dose resulting in death to 50% of experimental animals
MSHA	=	Mining Safety and Health Administration
NAP	=	Not Applicable
NAV	=	Not Available
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
STEL	=	Short-Term Exposure Limit (15 minutes)
TCLo	=	Lowest concentration in air resulting in a toxic effect
TDLo	=	Lowest dose resulting in a toxic effect
TLV	=	Threshold Limit Value
TSCA	=	Toxic Substance Control Act
TWA	=	Time-Weighted Average (8 hours)
WHMIS	=	Workplace Hazardous Materials Information System