

Material Safety Data Sheet

Material Name: Tyvek Bag Desiccants

*** Section 1 - Chemical Product and Company Identification ***

Distributor Information

Uline
2200 S. Lakeside Dr
Waukegan, IL 60085

Phone: 847-473-3000
Fax: 847-473-5157

*** Section 2 - Hazards Identification ***

Emergency Overview

The nature of the product make either ingestion or inhalation highly improbable. Normally, converting presents no dust hazard.

Potential Health Effects: Eyes

Swelling, discomfort associated with foreign substance within the eye.

Potential Health Effects: Skin

None anticipated.

Potential Health Effects: Ingestion

Not a normal route of exposure. May cause stomach distress, nausea or vomiting.

Potential Health Effects: Inhalation

None anticipated.

HMIS Ratings: Health: 0 Fire: 1 HMIS Reactivity 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

*** Section 3 - Composition / Information on Ingredients ***

CAS #	Component	Percent
9002-88-4	Polyethylene	>98
Trade Secret	Proprietary Antistatic Agent	0-1.3

*** Section 4 - First Aid Measures ***

First Aid: Eyes

Remove particle.

First Aid: Skin

None necessary.

First Aid: Ingestion

None necessary.

First Aid: Inhalation

None necessary.

*** Section 5 - Fire Fighting Measures ***

General Fire Hazards

See Section 9 for Flammability Properties.

fire-retardant garments. Fabrics of Tyvek(R) should not be used near heat, flame, sparks nor in explosive environments. When exposed to temperatures at or above its melting point of 275F (135C), Tyvek(R) tends to shrink away from the heat source. If the heat source reaches the auto-ignition temperature of 750F (400C), Tyvek(R) will burn and ignited droplets may fall or be blown away from the ignition source, which can cause fire to spread. Type 14 and type 16 Tyvek(R) are rated "Class 1 - Normal Flammability" by the Federal Flammable Fabrics Act for Clothing Textiles (16 CFR 1610). Type 14 Tyvek(R) fabric does not pass DOC FF 3-71, "Children's Sleepwear Test" and does not pass NFPA 701.

Hazardous Combustion Products

CO, acrolein, other aldehydes, ketones, fatty acids and short-chain hydrocarbons.

Extinguishing Media

Water, Dry Chemical, CO2.

Fire Fighting Equipment/Instructions

Self-contained breathing apparatus should be used if product is involved in fire.

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NFPA Ratings: Health: 0 Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

*** Section 6 - Accidental Release Measures ***

Containment Procedures

None necessary

Clean-Up Procedures

None necessary

Evacuation Procedures

None necessary

Special Procedures

None

*** Section 7 - Handling and Storage ***

Handling Procedures

Avoid contact with eyes. Tyvek(R) is slippery. Care should be used in moving it. It should not be left in a walkway where it may be walked upon and a person could slip and fall. Keep away from heat, sparks and flames. In low humidity conditions, all styles of Tyvek(R) whether they contain an antistatic coating or not, can build a static charge.

Storage Procedures

Do not store with strong oxidizing acids. Keep from excessive heat and flames. Do not expose to exhaust gases from internal combustion engines or heaters. Prolonged exposure will cause outer wrap and edges to turn yellow or pink. Storage area should be ventilated. Do not stack rolls more than four (4) units high. Rolls should be stored vertically on their pallets.

*** Section 8 - Exposure Controls / Personal Protection ***

A: Component Exposure Limits

ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.

Engineering Controls

If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

None needed during normal use and handling.

Personal Protective Equipment: Skin

None needed during normal use and handling.

Personal Protective Equipment: Respiratory

Not normally required if good ventilation is maintained and exposure guidelines are not exceeded. Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

Personal Protective Equipment: General

Eye wash fountain and emergency showers are recommended.

*** Section 9 - Physical & Chemical Properties ***

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Appearance:	White sheets or rolls	Odor:	None
Physical State:	Solid	pH:	ND
Vapor Pressure:	ND	Vapor Density:	NA
Boiling Point:	NA	Melting Point:	110-140 C (230-284 F) @ 760 mm Hg
Solubility (H2O):	Insoluble	Specific Gravity:	0.95-1.00 g/cc
Evaporation Rate:	ND	VOC:	ND
Percent Volatile:	<0.1 @25C (77F)	Octanol/H2O Coeff.:	ND
Flash Point:	ND	Flash Point Method:	ND
Upper Flammability Limit (UFL):	ND	Lower Flammability Limit (LFL):	ND
Burning Rate:	ND	Auto Ignition:	750F (400C)

*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability

This is a stable material.

Chemical Stability: Conditions to Avoid

Aromatic hydrocarbons, gasoline, lubricating oils, halogenated hydrocarbons will soften and swell Tyvek(R).

Incompatibility

Products made from Tyvek(R) should not be stored in contact with strong oxidizing agents, especially at elevated temperatures as in the case for most all olefins.

Hazardous Decomposition

Exothermic oxidation starts to occur at 335 C (635 F). Autoignition occurs at 400 C (750 F). Incomplete combustion yields hazardous gases/vapors including CO, acrolein, other aldehydes, ketones, fatty acids, and short-chain hydrocarbons.

Possibility of Hazardous Reactions

Will not occur.

*** Section 11 - Toxicological Information ***

Acute Dose Effects

Component Analysis - LD50/LC50

Polyethylene (9002-88-4)

Inhalation LC50 Mouse: 12 g/m³/30M

Carcinogenicity

Component Carcinogenicity

Polyethylene (9002-88-4)

IARC: Supplement 7 [1987], Monograph 19 [1979] (Group 3 (not classifiable))

*** Section 12 - Ecological Information ***

Ecotoxicity

Component Analysis - Ecotoxicity - Aquatic Toxicity

No ecotoxicity data are available for this product's components.

*** Section 13 - Disposal Considerations ***

US EPA Waste Number & Descriptions

A: General Product Information

Wastes must be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.

B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

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Disposal Instructions

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations. See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

*** Section 14 - Transportation Information ***

US DOT Information

Shipping Name: Not Regulated

*** Section 15 - Regulatory Information ***

US Federal Regulations

Component Analysis

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

State Regulations

Component Analysis - State

None of this product's components are listed on the state lists from CA, MA, MN, NJ, PA, or RI.

Component Analysis - WHMIS IDL

No components are listed in the WHMIS IDL.

Additional Regulatory Information

Component Analysis - Inventory

Component	CAS #	TSCA	CAN	EEC
Polyethylene	9002-88-4	Yes	DSL	No

*** Section 16 - Other Information ***

Other Information

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Key/Legend

NA - Not Applicable
ND - Not Determined
ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety and Health Administration
TLV - Threshold Limit Value
PEL - Permissible Exposure Limit
TWA - Time Weighted Average
STEL - Short Term Exposure Limit
NTP - National Toxicology Program
IARC - International Agency for Research on Cancer