

SAFETY DATA SHEET



Rulon®

Version 1

Revision Date 07/09/2024

Print Date 07/09/2024

SECTION 1: IDENTIFICATION

Product Names: Rulon®
Other / Generic Names: Polytetrafluoroethylene (PTFE)

Manufacturer or supplier's details

Company: The Gund Company, Inc.
2121 Walton Road
St. Louis, MO 63114
Telephone: (314) 423-5200
Visit Our Website: www.thegundcompany.com
Email Address: info@thegundcompany.com
Emergency Telephone: (262) 522-7990

Recommended use of the chemical and restrictions on use

Recommended use: Mechanical, electrical, and chemical applications.
Restrictions on use: See *Section 15* for restrictions.

SECTION 2: HAZARDS IDENTIFICATION

When machined or cut and dust is formed, the following apply:

GHS Classification

Not classified as hazardous.

GHS Label Element

None required.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components

Component	CAS-No.	Concentration (%)
Polytetrafluoroethylene	9002-84-0	≥ 99

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SECTION 4: FIRST AID MEASURES

For dust generated from further processing or fumes generated from thermal decomposition:

EYE CONTACT: Flush eyes with water as precaution. Remove contact lenses if applicable. Protect unharmed eye. Keep eye wide open while rinsing. If irritation persists, seek medical attention.

SKIN CONTACT: Washing thoroughly with soap and water after handling is recommended. If hot polymer gets on skin, cool rapidly with cold water. Do not peel polymer from skin. Get medical treatment for thermal burn.

INGESTION: Not likely to be hazardous. Consult a physician if necessary.

INHALATION: No specific treatment is necessary since this material is not likely to be hazardous by inhalation. If exposed to fumes from overheating or if difficulty in breathing occurs, move personnel to fresh air immediately. Consult a physician if necessary.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE PROPERTIES: Limited combustible material. Self-ignition temperature is 968-1040 °F.

EXTINGUISHING MEDIA: Foam, dry chemical, and carbon dioxide (CO₂).

SPECIAL FIRE FIGHTING PROCEDURES: Wear positive pressure, self-contained breathing apparatus (SCBA).

HAZARDOUS DECOMPOSITION PRODUCTS: CO, CO₂, HF, and potentially toxic fluorinated compounds can be produced in temperatures above 750 °F (399°C). Dense, irritating smoke can be generated in a fire situation, leading to polymer fume fever.

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Sweep up for disposal or recovery. Avoid dust generation. Spilled material is a slipping hazard.

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Store in closed containers in a clean, dry area.

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SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

VENTILATION: Use local exhaust to remove vapors and fumes during any hot processing and/or to control dust and airborne particles.

RESPIRATORY PROTECTION: Operations involving powders, grinding, fabricating, machining or processing of this material in any form should be reviewed for levels of airborne particulates. Use NIOSH approved respirator to provide protection against dust or when exposure limits expect to be exceeded.

EYE PROTECTION: Safety glasses with side shields recommended during powder handling or dust generating operations.

SKIN PROTECTION: Use gloves and/or barrier cream. Wear adequate clothing to prevent skin contact. During any hot processing, use face shield, heat resistant gloves, clothing, and footwear.

Exposure Guidelines:

Ingredient Name	CAS #	CGIH TLV	OSHA PEL
Polytetrafluoroethylene	9002-84-0	10 mg/m ³	15 mg/m ³
Cobalt (Co)	7440-48-4	0.02 mg/m ³	0.10 mg/m ³
Nickel (Ni)	7440-02-0	0.05 mg/m ³	1.0 mg/m ³

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Solid plastic. Green in color.

ODOR: None

MELTING POINT: 620°-650°F

SOLUBILITY IN WATER: Insoluble

SPECIFIC GRAVITY (H₂O=1): 1.89 g/cc

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable.

CONDITIONS TO AVOID (STABILITY): CO, CO₂, HF, and potentially toxic fluorinated compounds can be produced in temperatures above 750 °F (399°C).

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MATERIAL TO AVOID (INCOMPATIBILITY): Finely divided metal powders, potent oxidizers like fluorine (F₂) and related compounds.

CONDITIONS TO AVOID (POLYMERIZATION): Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: With mechanical operations, dust may be slightly irritating to mucous membranes of eyes and upper respiratory tract. Non-irritating to skin.

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Does not require environmental protection at normal practice. Not harmful to water in accordance with VwVwS dd. 17.05.99 (General Administrative Regulation under the Federal Water Act on the Classification of Substances Hazardous to Water in Water Hazard Classes).

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose in accordance with all applicable regulations.

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (DOT): Not regulated as a dangerous good.

GENERAL: Not regulated as a dangerous good.

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): All substances listed on inventory.

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: None

313 REPORTABLE INGREDIENTS: No

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OSHA Hazard Communication Categories:

Not hazardous.

STATE REGULATIONS:

Materials known to the State of California to cause cancer or reproductive toxicity: This product poses no significant risk to persons exposed during normal use as defined by the California Safe Drinking Water and Toxics Enforcement Act (Proposition 65).

INTERNATIONAL REGULATIONS:

As an article, the product does not need to be labeled in accordance with EC-directives or respective national laws.

This product is REACH and RoHS compliant.

SECTION 16: OTHER INFORMATION

DISCLAIMER:

To the best of our knowledge, the information contained herein is accurate. 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.