

Polypropylene Material Safety Data Sheet

MATERIAL SAFETY DATA SHEET

Product Designation: Protec Homopolymer Polypropylene

Section 1 – Product Ingredients

No.	Components	CAS No.	Percent (%)	OSHA PEL
P	Polypropylene	9003-07-0	100	Not Established

Section 2 – Physical/Chemical Properties

Physical Form:	Pellets
Color:	Translucent
Odor:	Slightly paraffinic
Molecular Weight:	Not Applicable
Boiling Point:	Not Applicable
Melting Point:	248-338°F (120-170°C)
Freezing Point:	Not Applicable
Solubility in Water:	Insoluble
Specific Gravity:	0.9 (water = 1) Bulk Density: 400-600 kg/M3
Vapor Density:	Not Applicable (air = 1)
Evaporation Rate:	Not Applicable (Butyl Acctate = 1)
Vapor Pressure:	Not Applicable
% Volatile:	Not Applicable
pH:	Not Applicable

The physical data presented above are typical values and should not be construed as a specification.

Polypropylene Material Safety Data Sheet

Section 3 - Fire Hazard Data and Fighting Method

Flash Point:	Not Applicable
Autoignition:	Not Established
Flammable Limits:	Not Applicable
In Air (LEL, %) (UEL, %)	Not Applicable
Extinguishing Media:	Dry Chemical, Carbon Dioxide, Alcohol-Type or Universal Type Foam, Water Spray.
Special Fire Fighting:	In the event of a fire, wear NIOSH approved, positive pressure, self-contained breathing apparatus (SCBA) and full protective clothing. Extinguish fires with water, foam or dry chemical. Do use water jet.
Unusual Fire & Explosion Hazards:	Avoid accumulation and dispersion of dust to reduce explosion potential. Fire may produce irritating gases and dense smoke.

Section 4 - Human Health Data

Emergency Overview:	Practically nontoxic
Primary Route(s) of Exposure:	Inhalation, Eye, Skin Contact

Potential Health Effects and Symptoms of Over-Exposure

Negligible Hazard at room temperature under normal use.

Eye Contact:	Solid particles or dust may cause transient irritation as a result of Mechanical abrasion. Process fumes may cause irritation.
Skin Contact:	Essentially no irritation to skin. Mechanical injury only. Hot Solid may cause thermal burns.
Inhalation:	Exposure to dust at high concentration may cause irritation to the Respiratory tract.
Ingestion:	May cause choking if swallowed.

Medical Conditions Aggravated by Overexposure:

No expected. Polypropylene is generally accepted as being biologically inert. No specific antidotal treatment, symptomatic support required.

Carcinogenicity:

NTP IARC OSHA

No No No



Polypropylene Material Safety Data Sheet

Section 5 – First Aid Measures

Eye Contact: Immediately wash eyes with water for at least 15min. Consult physician if irritation or other symptoms occur.

Skin Contact: For serious burns, get medical attention. In case of skin contact with hot polymer, immediately immerse in or flush with clean, cold water.

Inhalation: Remove to fresh air. Consult physician if irritation of respiratory passages occurs .

Ingestion: Consult physician

Notes to Physician: No known delayed effects following single exposure

Other Instructions: None

Section 6 – Exposure Controls, Personal, Protection Recommendations

Eye Protection: Safety glasses

Skin Protection: Gloves required when handling hot material

Respiratory Protection: None required in normal use of product. NIOSH approved dust mask recommended if dusty conditions exist.

Engineering Control: Ventilation Requirements –
General
General ventilation should be sufficient. However, if operating conditions create high airborne concentrations of this material, special ventilation may be needed. If thermal processing results in irritating fumes, special ventilation may be needed. If handling results in dust generation, special ventilation may be needed to ensure that dust exposure does not exceed the OSHA PEL for nuisance dust.

Required Work/Hygiene Procedure: Minimize contact with skin. Do not eat, drink or smoke in work area. Wash hands thoroughly after handling, especially before eating, drinking, smoking, chewing, or using restroom facility. Dusted clothing and shoes should be thoroughly cleaned before reuse.

Exposure Guidelines:

No.	Components	OSHA-PEL	ACGIH-TLV
P	Polypropylene	None Nuisance Dust: 10mg/M ³ TWA	None

Section 7 – Accidental Release Control Measures

Response to Spills: Sweep up and recycle if feasible



Polypropylene Material Safety Data Sheet

Section 8 – Handling and Storage

Handling: Maintain good housekeeping. Spilled materials may create a slipping hazard. Remove dust from settling areas to prevent any secondary potential dust explosion or fire hazards. Electrostatic charge may build up during handling. Grounding of equipment is recommended.

Storage: Store in a dry place and away from direct sunlight

Container Use: Keep containers closed.

Section 9 – Stability and Reactivity

Stability: Stable

Conditions to avoid: Strong Oxidizers

Hazardous Decomposition: Carbon Dioxide, carbon monoxide

Hazardous Polymerization: Will not occur

Section 10 – Disposal Considerations

Disposal Method: It must be disposed of in accordance with Federal, State and Local environmental control regulations.

Recycle/Reclaim: Recycling or reclamation of Polypropylene should be encouraged where possible.

Section 11 – Transport Information

DOT Shipping Name: Not Listed

DOT label: Not regulated

DOT Hazard Class: Not Applicable

UN/NA Number: Not Applicable

Hazard Label: Not Applicable

Hazard Placard: Not Applicable

Packing Group: Not Applicable

Bulk Packaging: Not Applicable

RQ: Not Applicable

Emergency Response Guide

(ERG) No.: Not Applicable

Section 12 – Toxicological Information

The information provided below can be subject to misinterpretation. Therefore, it is essential the following information be interpreted by individuals trained in its evaluation.

Chemical Polypropylene

Toxicity Data
No Toxicology data available

Polypropylene is not considered hazardous materials under the OSHA Hazard Communication Standard.



Polypropylene Material Safety Data Sheet

Section 13 – Ecological Information

No data is available on the adverse effects of this product on the environment. Neither COD or BOD data are available. Fish or birds may eat pellets which may obstruct their digestive tracts.

Section 14 – Regulatory Information

Federal Regulatory Information

Polypropylene

OSHA Status: None

EPA Clean Air Act Status: None

EPA Clean Water Act Status: None

TSCA Status: TSCA Inventory (40 CFR710) listing

CERCLA RQ: None

SARA Title III

Polypropylene

Section 302*

None

Section 313**

None

Section 311/312***

None

* Reportable quantity of extremely hazardous substance, Sec. 302

* Threshold planning quantity, extremely hazardous substance, Sec. 302

** Toxic Chemical, Sec. 313

*** Category as required by Sec 313 (40CFR372.65C). Must be used on Toxic Release inventory form

**** Hazard category for SARA Sec. 311/312 reporting H1=Acute health hazard, H2=chronic health hazard, P3=Fire hazard,

P4=sudden release of pressure hazard, P5=reactive hazard

RCRA Status:

If disposed of in its purchased form, this would not be a RCRA hazardous waste either by listing or by characteristics. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal whether a material containing the product or derived from the product should be classified as a hazardous waste (40CFR261.20-24).

Other Regulatory Information

The following chemicals are specifically listed by individual states; other product-specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For details on your regulatory requirements, you should contact the appropriate agency in your state.

State	Chemical	Regulation
None	Polypropylene	None

Product Name: Polypropylene Homopolymer

International

None



Polypropylene Material Safety Data Sheet

Section 17 – Other Information

NFPA

Fire – 1

Health – 0

Reactivity- 0

Specific Hazard – None

HMIS

Health - 0

Flammability - 1

Reactivity - 0

Personal Protection Index – E

Section 18 – Disclaimer of Liability

For information regarding safe use of polyolefin articles and components of articles intended for direct food contact, refer to US FDA as specified in 21 CFR 177.1520 or Formolene PP Technical Data Sheet.

The above data is based upon tests performed by, and experience of Scranton Products and/or Scranton Products and is provided for informational purposes only. Scranton Products products are intended for sale to industrial and commercial consumers. Scranton Products disclaims any liability for damage or injury that results from the use of the data above, and nothing contained therein shall constitute a guarantee, warranty (including warranty of merchantability) or representation (including freedom from patent liability) by Scranton Products with respect to that data, the product described, or its use for any specific purpose, even if that purpose is known to Scranton Products. Compliance with all applicable federal, state, and local laws and regulations remains the responsibility of the user.