INEOS
Olefins & Polymers USA

Material Safety Data Sheet

Polypropylene Homopolymer

1 . Product and company identification

Product name Polypropylene Homopolymer

Supplier INEOS USA LLC
2600 South Shore Blvd.
League City, Texas 77573

Trade name Covers the following grades:
H00M-00, H00G-00, H01 series, H02 series, H03 series, H04 series, H05 series, H07 series, H08 series, H11G-00, H12 series, H13M-00, H13Z-00, H14A-00, H17Uc00, H18A-00, H19G series, H20 series, H28E-00, H30Z-00, H35 series, H36G series, H38G series, H53N-00, H65C-00
and Experimental formulations. (polypropylene grades with "x" in grade name)

Material uses Consumer product. Industrial applications.

MSDS # 0000001888 (NAP) S

Emergency telephone number 1 (800) 424-9300
Outside the US: +1 703-527-3887 (CHEMTREC)

2 . Hazards identification

Physical state Granular solid. Pellets. Powder or flakes.

Emergency overview This product has been evaluated and does not require any hazard warning on the label under established regulatory criteria.

No known significant effects or critical hazards. Avoid prolonged contact with eyes, skin and clothing. Handling and/or processing of this material may generate dust which may cause mechanical irritation of the eyes, skin, nose and throat.High dust concentrations have a potential for combustion or explosion.

Routes of entry Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

Inhalation Exposure to airborne concentrations well above the recommended exposure limits may cause irritation of the nose, throat, and lungs.If heated to more than 300°C, the product may form vapors or fumes which could cause irritation of the respiratory tract, coughing, and shortness of breath.

Ingestion No significant health hazards identified.

Skin No significant irritation expected other than possible mechanical irritation.Heated material can cause thermal burns.

Eyes No significant irritation expected other than possible mechanical irritation.Heated material can cause thermal burns.When heated to decomposition, it emits acrid smoke and irritating fumes.

3 . Composition/information on ingredients

Name	CAS number	%
POLYPROPYLENE (PURE)	9003-07-0	>98

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4 . First aid measures

Eye contact Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur.

Skin contact If burned by contact with hot material, flush skin immediately with large amounts of cold water. If possible, submerge area in cold water. No attempt should be made to detach polymer adhering to the skin or to remove clothing attached with molten material. Thermal burns require immediate medical attention.Cold material:Wash with plenty of soap and water.

Inhalation If affected by fumes from heated material, remove from source of exposure and move the affected person into fresh air.If not breathing, give artificial respiration.If breathing is difficult, give oxygen.Get medical attention.

Ingestion Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.

5 . Fire-fighting measures

Flammability of the product May be combustible at high temperature.

Extinguishing media

Suitable In case of fire, use water spray (fog), foam or dry chemical.

Not suitable Do not use water jet.

Special exposure hazards Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Hazardous thermal decomposition products Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

Special protective equipment for fire-fighters Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

Special remarks on fire hazards May be combustible at high temperature.

6 . Accidental release measures

Personal precautions Personnel should wear protective clothing.Chemical/Dust Goggles

Environmental precautions If emergency personnel are unavailable, vacuum or carefully scoop up spilled material and place in an appropriate container for disposal.

Methods for cleaning up

Small spill Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill Contact emergency personnel.Eliminate all ignition sources if safe to do so.Granules spilled on the floor can cause slipping.Fine dust clouds may form explosive mixtures with air.Do not touch or walk through spilled material.Use suitable protective equipment (section 8).Follow all fire-fighting procedures (section 5).

7 . Handling and storage

Handling There is a risk of being splashed with molten materials.Avoid strong oxidizers.Thermal burns are the most common injury caused while processing molten material.Do not inhale fumes or vapor from molten product.Use with adequate ventilation.When handling hot material, wear heat resistant protective gloves, clothing and face shield that are able to withstand the temperature of the heated product.Pneumatic conveying of powder and pellets can generate large static electrical charges. Electrical discharge in presence of air can cause an explosion. Earth all equipment.High dust concentrations have a potential for combustion or explosion.To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material.

7 . Handling and storage

Storage

Keep container tightly closed.Keep container in a cool, well-ventilated area.Keep away from heat and direct sunlight.The main hazards are related to pallet stock slippage and forklift truck maneuvers, which can cause injury to personnel. It is highly recommended that adequate procedures covering storage handling of pallets are established and maintained. These procedures must be kept up to date and regularly audited. In most cases, best practice is to stack pallets no more than 2 high. However, facilities responsible for storing the material should perform a site specific risk assessment to determine whether pallets can be stacked safely.

8 . Exposure controls/personal protection

Ingredient	Exposure limits
Polypropylene Homopolymer	**ACGIH TLV (United States).** TWA: 10 mg/m³ 8 hour(s). Form: Inhalable TWA: 3 mg/m³ 8 hour(s). Form: Respirable fraction

Engineering measures

Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.Product processing, heat sealing of film, or operations involving the use of wires or blades heated above 300°C may produce dust, vapor or fumes.To minimize risk of overexposure to dust, vapor or fumes it is recommended that a local exhaust system is placed above the equipment, and that the working area is properly ventilated.

Hygiene measures

Wash hands after handling compounds and before eating, smoking and using the lavatory and at the end of the day.

Personal protection

Respiratory

Product processing, heat sealing of film, or operations involving the use of wires or blades heated above 300°C may produce dust, vapor or fumes. To minimize risk of overexposure to dust, vapor or fumes it is recommended that a local exhaust system is placed above the equipment, and that the working area is properly ventilated.

If ventilation is inadequate, use certified respirator that will protect against dust/mist.

Hands

Hot material: Wear heat-resistant protective gloves that are able to withstand the temperature of molten product.
Cold material: None required; however, use of gloves is good industrial practice.
The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
Consult your supervisor or S.O.P. for special handling instructions.

Eyes

Safety glasses with side shields. Use dust goggles if high dust concentration is generated.

Skin

Hot material: Wear heat-resistant protective gloves, clothing and face shield that are able to withstand the temperature of the molten product.
Cold material: None required; however, use of protective clothing is good industrial practice.

9 . Physical and chemical properties

Physical state Granular solid. Pellets. Powder or flakes.

Auto-ignition temperature 388°C (730.4°F)

Color White, translucent or colorless.

Odor Faint odor.

Melting/freezing point 155 to 165°C (311 to 329°F)

10 . Stability and reactivity

Chemical stability The product is stable.

Hazardous polymerization Under normal conditions of storage and use, hazardous polymerization will not occur.

Conditions to avoid If heated to more than 300°C, the product may form vapors or fumes which could cause irritation of the respiratory tract, coughing, and shortness of breath.Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame).To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material.

Materials to avoid Avoid strong oxidizers.

Hazardous decomposition products Burning can produce carbon monoxide and/or carbon dioxide and other harmful products. The major decomposition products are low molecular weight oligmers (C6-18) of polypropylene. Degradation products may include trace amounts of acrolein, formaldehyde, aldehydes, and other organic vapors.

Incompatibility with various substances Strong oxidizing materials

11 . Toxicological information

Carcinogenicity No component of this product at levels greater than 0.1% is identified as a carcinogen by ACGIH or the International Agency for Research on Cancer (IARC). No component of this product present at levels greater than 0.1% is identified as a carcinogen by the U.S. National Toxicology Program (NTP) or the U.S. Occupational Safety and Health Act (OSHA).

Mutagenicity No component of this product at levels greater than or equal to 0.1% is classified by established regulatory criteria as a mutagen.

Teratogenicity No component of this product at levels greater than or equal to 0.1% is classified by established regulatory criteria as teratogenic or embryotoxic.

Fertility effects No component of this product at levels greater than or equal to 0.1% is classified by established regulatory criteria as a reproductive toxin.

12 . Ecological information

Environmental effects No known significant effects or critical hazards.

Wildlife may ingest plastic pellets or bags. Although not toxic, such materials may physically block the digestive system, causing starvation or death.

This product is not likely to move rapidly with surface or groundwater flows because of its low water solubility.

Other adverse effects No known significant effects or critical hazards.

13 . Disposal considerations

Waste disposal Avoid contact of spilled materials and runoff with soil and surface waterways. Consult an environmental professional to determine if local, regional or national regulations would classify spilled or contaminated materials as hazardous waste. Use only approved transporters, recyclers, treatment, storage or disposal facilities.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14 . Transport information

Not classified as hazardous for transport (IMO, IATA/ICAO, DOT, TDG, Mexico).

15 . Regulatory information

HCS Classification

Not regulated.

U.S. Federal regulations

United States inventory (TSCA 8b): All components are listed or exempted.

SARA 302/304/311/312 extremely hazardous substances: No products were found.
SARA 302/304 emergency planning and notification: No products were found.
SARA 302/304/311/312 hazardous chemicals: No products were found.
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: No products were found.

Clean Air Act (CAA) 112 accidental release prevention: No products were found.

Clean Air Act (CAA) 112 regulated flammable substances: No products were found.

Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

State regulations

None of the components are listed.

United States inventory (TSCA 8b)

All components are listed or exempted.

WHMIS (Canada)

Not controlled under WHMIS (Canada).

CEPA Toxic substances: None of the components are listed.
Canadian ARET: None of the components are listed.
Canadian NPRI: None of the components are listed.
Alberta Designated Substances: None of the components are listed.
Ontario Designated Substances: None of the components are listed.
Quebec Designated Substances: None of the components are listed.

International regulations

International lists

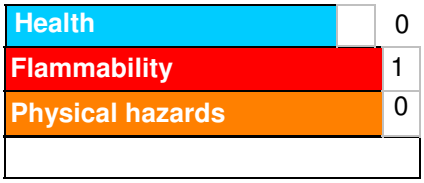
Please go to RPS online at www.ineos-op.com

16 . Other information

Label requirements

This product has been evaluated and does not require any hazard warning on the label under established regulatory criteria.

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)

16 . Other information

Date of issue 3/17/2011.

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Prepared by Product Stewardship

Indicates information that has changed from previously issued version.

Notice to reader

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