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MATERIAL SAFETY DATA SHEET (MSDS)

Section 1: Product and Company Identification

Product Name

HDPE Wax

Chemical Name

High Density Polyethylene Wax

Synonyms

Polyethylene Wax

CAS Number

9002-88-4

Recommended Use

Industrial processing aid, lubricant, dispersing agent, additive for plastics and coatings.

Section 2: Hazard Identification

GHS Classification

Not classified as hazardous according to GHS criteria.

Signal Word

Not Required

Hazard Statements

Not classified as hazardous.

Potential Hazards

- Dust may cause mechanical irritation to eyes.

- Dust may cause mild respiratory irritation.
- Molten material may cause thermal burns.
- Fine dust may create combustible dust concentrations in air.

Precautionary Statements

- Avoid excessive dust generation.
- Use adequate ventilation.
- Wear appropriate personal protective equipment.
- Avoid contact with molten material.

Section 3: Composition / Information on Ingredients

Component	CAS Number	Concentration
High Density Polyethylene Wax	9002-88-4	>99%

No hazardous additives intentionally added.

Section 4: First Aid Measures

Eye Contact

Flush eyes immediately with plenty of clean water for at least 15 minutes.

Seek medical attention if irritation persists.

Skin Contact

Wash with soap and water.

For molten product contact:

- Cool affected area with water.
- Do not remove solidified material from skin.
- Obtain immediate medical attention.

Inhalation

Move affected person to fresh air.

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Seek medical attention if symptoms persist.

Ingestion

Rinse mouth with water.

Do not induce vomiting.

Seek medical advice if discomfort occurs.

Section 5: Fire Fighting Measures

Suitable Extinguishing Media

- Dry chemical
- Carbon dioxide (CO_2)
- Foam
- Water spray

Unsuitable Media

Do not use high-pressure water jets.

Hazardous Combustion Products

May produce:

- Carbon monoxide (CO)
- Carbon dioxide (CO_2)
- Hydrocarbon fumes

Protective Equipment

Use self-contained breathing apparatus (SCBA).

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Section 6: Accidental Release Measures

Personal Precautions

Avoid creating dust.

Use appropriate PPE.

Environmental Precautions

Prevent material from entering drains and waterways.

Cleanup Methods

Sweep or vacuum material.

Collect in suitable containers for disposal or recycling.

Section 7: Handling and Storage

Handling

- Avoid dust generation.
- Maintain good housekeeping practices.
- Avoid contact with molten product.
- Use local exhaust ventilation if necessary.

Storage

Store:

- In original containers
- In cool, dry areas
- Away from oxidizing agents
- Away from heat sources

Section 8: Exposure Controls / Personal Protection

Engineering Controls

Provide adequate ventilation.

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Personal Protective Equipment

Eye Protection

Safety glasses with side shields.

Hand Protection

Protective gloves.

Respiratory Protection

Normally not required.

Use dust mask if airborne dust concentrations are excessive.

Skin Protection

Protective work clothing.

Section 9: Physical and Chemical Properties

Property	Value
Appearance	White Powder/Flakes
Physical State	Solid
Odor	Slight
Melting Point	105 – 135°C
Density	0.95 – 0.98 g/cm³
Water Solubility	Insoluble
Flash Point	>250°C
Auto-Ignition Temperature	>350°C
Vapor Pressure	Negligible
pH	Not Applicable

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Section 10: Stability and Reactivity

Stability

Stable under normal conditions.

Conditions to Avoid

- Excessive heat
- Open flames
- Dust accumulation

Incompatible Materials

Strong oxidizing agents.

Hazardous Decomposition Products

- Carbon monoxide
- Carbon dioxide
- Hydrocarbon vapors

Section 11: Toxicological Information

Acute Toxicity

Expected to be of low toxicity.

Skin Irritation

Not expected under normal conditions.

Eye Irritation

Dust may cause temporary irritation.

Respiratory Effects

Dust may cause mechanical irritation.

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Carcinogenicity

Not classified as carcinogenic.

Mutagenicity

No known adverse effects.

Section 12: Ecological Information

Environmental Impact

Not expected to be harmful to the environment.

Biodegradability

Slow degradation in the environment.

Bioaccumulation

Not expected to bioaccumulate significantly.

Aquatic Toxicity

No significant aquatic toxicity known.

Section 13: Disposal Considerations

Dispose according to local, regional, and national regulations.

Preferred methods:

- Recycling where possible
- Approved landfill
- Approved waste disposal facility

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Section 14: Transport Information

UN Number

Not Regulated

Proper Shipping Name

Not Regulated

Hazard Class

Not Regulated

Packing Group

Not Applicable

IMDG

Not Dangerous Goods

IATA

Not Dangerous Goods

ADR/RID

Not Dangerous Goods

Section 15: Regulatory Information

The product is generally not classified as hazardous under major international chemical regulations when supplied in solid form.

Users should verify compliance with applicable local regulations.

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Section 16: Other Information

This document is intended as a general guide for safe handling and technical use of HDPE Wax. The information is based on available data and industry knowledge. Users are responsible for determining suitability for their specific applications and regulatory requirements.

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