



Material Safety Data Sheet

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Section 1

PRODUCT IDENTIFICATION

Product Family:	ICORENE
Product Names Covered:	3550, 3560, 3565, 3570, 3940, 3950, 4035, 4550, 4740, all stone effects
Chemical Family:	Polyethylene copolymer
Chemical Name:	Ethylene-Olefin Copolymer
CAS No.:	Ethylene/butene-1 25087-34-7, Ethylene/hexene-1 25213-02-9, Ethylene/octene-1 26221-73-8
Synonyms:	Polyethylene, PE, Polyolefin
Formula:	$(C_2H_4)_n$

Section 2

PRODUCT INGREDIENTS

Components	CAS No.	Percentage (%)	OSHA PEL
Ethylene/butane-1 or Ethylene/hexene-1 or Ethylene/octene-1 Additives	25087-34-7 25213-02-9 26221-73-8 Various	> 99% > 99% > 99% < 1%	Not established Not established Not established Not established

Section 3

PHYSICAL/CHEMICAL PROPERTIES

Physical Form:	Powder
Color:	Various colors
Odor:	Odorless
Molecular Weight:	Not Applicable
Boiling Point:	Not Applicable
Melting Point:	100 - 150°C
Freezing Point:	Not Applicable
Solubility in Water:	Insoluble
Specific Gravity:	0.900 – 0.965 (Water = 1)
Vapor Density:	Not Applicable
Evaporation Rate:	Not Applicable
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.

Section 4

FIRE HAZARD DATA AND FIGHTING METHOD

Flash Point:	>345°C (>653°F)
Auto ignition:	>400°C (>752°F)
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 Procedure:	In the event of a fire, wear NIOSH approved positive pressure, self-contained breathing apparatus (SCBA) and full protective clothing.
Unusual Fire and Explosion Hazards:	Avoid accumulation and dispersion of dust to reduce explosion potential. Fire may produce irritating gases and dense smoke.

Section 5

HUMAN HEALTH DATA

Emergency Overview:	Practically non-toxic
Primary Route(s) of Exposure:	Inhalation, Eye, Skin Contact.
Potential Health Hazard 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 melt may cause thermal burns.
Inhalation:	Exposure to dust at high concentration may cause irritation to the respiratory tract.
Ingestion:	May cause choking if swallowed.
Aggravated by Over-Exposure:	Not expected. Polyethylene is generally accepted as being biologically inert. No specific antidotal treatment, symptomatic support required.
Carcinogenicity:	NPT: No IARC: No OSHA: No

Section 6

FIRST AID MEASURES

Eye Contact:	Immediately wash eyes with water for at least 15 minutes. 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 a physician if irritation of respiratory passages occurs.
Ingestion:	Consult physician.
Notes to Physician:	No known delayed effects following single exposure.
Other Instructions:	None

Section 7 EXPOSURE CONTROLS, PERSONAL PROTECTION RECOMMENDATIONS

Eye Protection:	Safety glasses.
Skin Protection:	Gloves required when handling hot material or powder.
Respiratory Protection:	None required in normal use of product. NIOSH approved dust mask recommended when handling powder.
Engineering Control:	Ventilation Requirements – General ventilation should be sufficient, if handling causes dust exposure not to exceed the OSHA PEL for nuisance dust. However, if operating conditions create high airborne concentrations of this material, special ventilation may be needed.
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:

Components	OSHA-PEL	ACGIH-TLV
Polyethylene	None, Nuisance dust 10 mg / M ³ TWA	

Section 8 ACCIDENTAL RELEASE CONTROL MEASURES

Response to Spills:	Sweep up. Recycle, if possible, or dispose in correct manner.
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Section 9 HANDLING AND STORAGE

Handling:	Maintain good housekeeping. Spilled pellets or powder may create a slipping hazard.
Storage:	Store in a dry place and away from direct sunlight, especially for extended storage period. For Manufacturing Facilities Only: Bulk storage of polyethylene pellets or powder may result in the accumulation of ethylene gas which must be kept below the explosive limit (LEL) of 2.7%. Avoid breathing vapors or fumes which may release during thermal processing. Airborne dust concentrations above 20mg / L may create a dust explosion hazard.
Container Use:	Keep containers closed.

Section 10 STABILITY AND REACTIVITY

Stability:	Stable
Conditions to Avoid:	May react with strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
Hazardous Decomposition:	Carbon Dioxide, carbon monoxide, oxygenated hydrocarbons (Aldehydes and Ketones).
Hazardous Polymerization:	Will not occur

Section 11 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 polyethylene resins should be encouraged where possible.

Section 12

TRANSPORTATION INFORMATION

DOT Shipping Name:	Not Listed
DOT Label:	Not regulated
DOT Hazard Class:	Not Applicable
UN / NA Number:	Not Applicable
Hazard Label(s):	Not Applicable
Hazard Placard(s):	Not Applicable
Packing Group:	Not Applicable
Bulk Packaging:	Not Applicable
RQ:	Not Applicable
Emergency Response Guide (ERG) No.:	Not Applicable

Section 13

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	Toxicity Data
Polyethylene	No toxicology data available. All base polyethylene resins used in ICORENE are FDA approved and are not considered hazardous materials under the OSHA Hazard Communication Standard.

Section 14

ECOLOGICAL INFORMATION

No product data is available on the adverse effects on the environment. Neither COD nor BOD data is available. Fish or birds may ingest pellets or powder which may obstruct their digestive tracts.

Section 15

REGULATORY INFORMATION

Federal Regulatory Information:

Polyethylene OSHA Status:	
EPA Clean Air Act:	None
EPA Clean Water Act:	None
TSCA Status:	TSCA Inventory (40 CFR710) listing
CERCLA RQ:	None

**SARA Title III
Polyethylene**

Section 302*	Section 313**	Section 311 / 312***
None	None	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, H3 = fire hazard, H4 = sudden release of pressure, H5 = resesive hazard.
P4 = sudden release of pressure hazard.

RCRA Status:

If disposed of in the form purchased, this would be RCRA hazardous waste either by listing or by characteristic. 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).

Section 16

OTHER INFORMATION

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