Safety Data Sheet

IZ-245

Section 1: Product and Company Identification

Manufacturer	Ideas Additives LLC 625 S Main St. Lombard, IL 60148		
Telephone	(630) 620-2010	**Fax**	(630) 620-2014
Product Name	IZ-245		
Recommended Use	Additive		
Restrictions on Use	For industrial/commercial use only		
Emergency Contact / Number	(630) 620-2010		

Section 2: Hazard Identification

Hazards	Combustible dust, May form combustible dust concentrations in air
Signal Word	Warning
Precautionary Statements	Not Applicable
Other Hazards	Combustion or overheating may cause evolution of particulate matter, which can cause polymer fume fever, a temporary flu-like illness. Symptoms may include fever, chills and sometimes cough of approximately 24 to 48 hours duration.

Section 3: Composition/Information on Ingredients

Component	CAS#	Concentration
Paraffin waxes, hydrocarbon waxes	8002-74-2	60 – 90
Polytetrafluoroethylene	9002-84-0	5 – 20

Section 4: First Aid Measures

General advice: Consult a physician if you feel unwell or are concerned. Show this safety data sheet to the doctor in attendance.
In case of eye contact: Rinse cautiously with water for several minutes. Obtain medical attention if pain, blinking or redness persists.
In case of skin contact: Wash with plenty of soap and water. After contact with molten product, cool skin area rapidly with cold water. Do not peel product from skin. Remove affected clothing and wash exposed skin area with mild soap and water, followed by warm water rinse.
If inhaled: If victim is breathing move to fresh air. If not breathing, give artificial respiration. Consult a physician if adverse health effects occur and persist.
If swallowed: Never give anything by mouth to an unconscious person. Call a poison center or doctor/physician if you feel unwell. Do not induce vomiting without medical direction. Keep head below hips if vomiting occurs to prevent aspiration.
Most important symptoms/effects, acute and delayed: Eye irritation.
Indication of immediate medical attention and special treatment needed, if necessary: Ongoing eye irritation.

Section 5: Firefighting Measures

Suitable and Unsuitable Extinguishing Media: Product may burn at high temperatures. Use water spray or fog, dry chemical, foam as appropriate for surrounding fire. High pressure water stream may spread fire. No known unsuitable materials.
Specific Hazards Arising from the Chemical: Hazardous thermal decomposition products may include, but are not limited to acid fluorides, fluorinated compounds, hydrogen fluoride, carbon monoxide, and carbon dioxide. Dust in the atmosphere and on surfaces may present a dust explosion hazard (for more information refer to OSHA Bulletin Combustible Dust in Industry: Preventing and Mitigating the Effects of Fire and Explosion and NFPA 654: Standard for the Prevention of Fire and Dust explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids).
Specific Protective Equipment and Precautions for Fire-Fighters: Follow good fire-fighting practices. Avoid breathing smoke, fumes, vapors and mists. Use a water spray to cool fire-exposed containers, structures and to protect personnel. Do not enter enclosed area without a positive pressure, NIOSH-approved self-contained breathing apparatus. Closed containers may explode from high heat. Self-contained breathing apparatus (SCBA) or positive pressure air line with mask are to be used in oxygen-deficient atmospheres. Protect from hydrogen fluoride fumes which react with water to form hydrofluoric acid. Exposure to fire/heat: keep upwind.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Ventilate the area thoroughly. Material can create slippery conditions. As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the material and ensure prompt removal from skin, eyes and clothing. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). No flames, no sparks. Eliminate all sources of ignition. See Section 8 for personal protection gear.
Environmental Precautions: Contain spill if it can be done with minimal risk. Prevent from entering drains, sewers, or waterways. Advise EPA, state, or local agencies as required.
Methods for Cleaning Up: Carefully shovel or sweep up spilled material and transfer to labeled, sealable containers for product recovery or safe disposal.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling: Wear protective clothing to prevent or minimize contact. Prevent the build-up of electrostatic charge. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Handling this product may result in electrostatic accumulation. Use proper grounding procedures. Provide appropriate exhaust ventilation at places of dust forming. In case of insufficient ventilation, wear suitable respiratory equipment. Do not use a torch to clean this material from equipment without local exhaust and ventilation. Follow all procedures and precautions for handling chemicals.
Conditions for safe storage, including any incompatibilities: Best stored in a dry place at 50 – 90 °F. Reseal lid on container after use. Store only in original or compatible, clearly labeled container. Do not store near strong bases, strong acids, ignition sources or open flame or in direct sunlight.

SECTION 8: EXPOSURE CONTROL AND PERSONAL PROTECTION

Exposure Limits

Component Name	ACGIH TWA	OSHA OEL
Polytetrafluoroethylene (CAS 9002-84-0)	10 mg/m^3 , inhalable	15 mg/m^3, total (8 hr)
	3 mg/m^3 , respirable	5 mg/m^3 respirable (8 hr)
Paraffin and hydrocarbon waxes (CAS 8002-74-2)	2 mg/m3	None established

Appropriate engineering controls: Ensure good ventilation of work station. Use process enclosures, local exhaust ventilation or other engineering controls to maintain good air quality and keep worker exposure to airborne contaminants below OEL or statutory limits.
Eye/face protection: Wear safety glasses with side shields or chemical safety goggles; use face shield when working with large amounts.
Skin protection: Wear protective clothing or gloves to minimize contact. Clean or wash contaminated clothing before reusing.
Respiratory protection: Wear suitable respiratory protection to avoid inhalation of aerosol particles in the absence of good ventilation or air flow or if OEL values are exceeded.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical State	White, free flowing powder	**Flash Point**	Not Determined
Specific Gravity (Water=1)	1.1	**Upper Flammability Limits**	Not Determined
Evaporation Rate (ether = 1)	Not Determined	**Lower Flammability Limits**	Not Determined
pH	Not Determined	**Auto-ignition Temperature**	Not Determined
Solubility in Water	Insoluble	**Decomposition Temperature**	Not Determined
Odor	Odorless	**Vapor Pressure (mm Hg @ 20 °C)**	Not Determined
Odor Threshold	Not Applicable	**Vapor Density (Air-=1)**	Not Determined
Melting/Freezing Point	235 – 608 °F / 113-320 °C	**Partition Coefficient (n-octanol/water)**	Not Determined
Boiling Range	Not Determined	**Viscosity (cSt @ 40 °C/100 °C)**	Not Determined
Initial Boiling Point	Not Determined	**Critical Temperature**	Not Determined
Note: Physical and chemical properties are provided for safety, health and environmental considerations and do not fully represent product specifications. Those should be requested separately.			

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Not reactive under proper storage and use conditions
Chemical Stability: Stable under normal storage and use conditions, combustible dust
Possibility of Hazardous Reactions: Small amounts of hazardous gases and/or particulate matter may be released during drying, cleaning and molding processes. These may irritate eyes, nose and throat. Large molten masses may give off hazardous gases.
Conditions to Avoid: Overheating. Thermal decomposition. Abnormally long processing time or high temperatures can produce irritating and toxic fumes. Direct sunlight. Extremely high or low temperatures.
Incompatible Materials: Finely divided aluminum powdered metals, potent oxidizers like fluorine (F_2), and related compounds. May cause fire and explosion when in contact with incompatible materials. Strong oxidizers. Strong acids. Strong bases.
Hazardous Decomposition Products: Hazardous thermal decomposition products may include, but are not limited to acid fluorides, fluorinated compounds, hydrogen fluoride, carbon monoxide, and carbon dioxide.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity Effects: Likely routes of exposure are skin and eye contact. Eye contact may be briefly irritating. Contact with skin is unlikely to cause problems. Inhalation may be irritating but is minimally toxic. Swallowing material is minimally toxic. LD_{50} rat oral >5,000 mg/kg; LD_{50} rabbit dermal >2,000 mg/kg
Chronic Toxicity Effects: Long term or repeated exposure may aggravate any acute symptoms.
Respiratory or skin sensitization: None expected
Germ cell mutagenicity: No components identified as mutagenic
Carcinogenicity: No components identified by NTP, OSHA or IARC as carcinogenic
Reproductive toxicity: None expected

SECTION 12: ECOLOGICAL INFORMATION

Toxicity: This product has not been evaluated but is not expected to be hazardous to the aquatic environment.
Persistence and degradability: Product has not been evaluated
Bioaccumulative potential: Product has not been evaluated
Mobility in soil: Product has not been evaluated

SECTION 13: DISPOSAL CONSIDERATIONS

Like most thermoplastic plastics the product can be recycled. Incinerate only if incinerator is capable of scrubbing hydrogen fluoride and other acidic combustion products. Dispose of material and empty containers in accordance with local, state/province, and federal environmental regulations. Packaging may contain product residues. Clean thoroughly before discarding or reusing.

SECTION 14: TRANSPORT INFORMATION

DOT	Not Regulated
TDG, IMDG, IATA	Information not available

SECTION 15: REGULATORY INFORMATION

Chemical Inventories	All ingredients are listed or exempt from listing on TSCA, active (U.S.), and DSL (Canada) inventories
SARA 311/312 Reporting Categories	None
SARA 313 Reportable Ingredients	None
California Prop 65	Perfluorooctanoic acid (CAS 335-67-1) – developmental toxicity

SECTION 16: OTHER INFORMATION

NFPA Rating Health=0; Flammability=1; Reactivity=0

Department Issuing SDS Health and Safety

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