

SECTION 1: Identification

Product identifier used on the label: ZeonorFilm(R) ZF16
Chemical Abstract Number (CASRN): Mixture
Recommended use of the chemical: Electronics applications
Restrictions on use: None

Details of the supplier of the safety data sheet

Manufacturer/Supplier Name and Address: Zeon Specialty Materials Inc.
25 Metro Drive #238
San Jose, CA 95110
USA
www.zeonsmi.com
Customer Service: +1-408-641-7889
+1-408-516-9382
Email address of person responsible for this SDS: productstewardship@zeonsmi.com

Emergency telephone number

24 hours per day/7 days per week: 3E Global Response Hotline: 1 866 519 4752 (+1 760 476 3962) / Customer Code 335467

SECTION 2: Hazard(s) identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200 (HCS 2024): This material is considered an "article" under 29 CFR 1910.1200 (Hazard Communication). When used under reasonable conditions and in accordance with directions of use, the product should not present a health or physical hazard.

GHS Label Elements

GHS Signal Word: None
GHS Hazard Statements: This product is not classified as hazardous according to the criteria of the GHS.
Precautionary Statements (Safety): Not Applicable

Other hazards: None known
Hazards Not Otherwise Classified: None
Hazards Identified When Used: No information available.

SECTION 3: Composition/information on ingredients

3.1 Substances

Hazardous Chemical(s)	%	CAS#	GHS Classification	M-Factor
No hazardous ingredients subject to disclosure				

3.2 Mixtures

ZeonorFilm(R) ZF16

Not Applicable

Section Comments: Not Applicable

SECTION 4: First-aid measures

Description of first aid measures

Following Inhalation: Remove to fresh air. Seek medical attention if cough or other symptoms develop or persist.

Following Skin Contact: Wash with soap and water. Get medical attention if irritation develops or persists.

Following Eye Contact: None expected to be needed, however, use an eye wash to remove a chemical from your eye regardless of the level of hazard.

Following Ingestion: Normally not needed. If large quantities are ingested or if you feel unwell, call your local Poison Control Center (1-800-222-1222 in the U.S.) or physician.

Most important symptoms and effects, both acute and delayed

At processing temperatures, the combined ingredients (elastomer and other processing ingredients) may emit fumes and vapors that may cause irritation to the eyes. Processing operations may create vapors or fumes which may cause respiratory tract irritation.

Indication of any immediate medical attention and special treatment needed

No additional first aid information available

SECTION 5: Fire-fighting measures

Extinguishing media

Use extinguishing media suitable for Class A fires (ordinary combustibles). Carbon dioxide is generally not recommended for use on Class A fires as a lack of cooling capacity may result in reignition.

Special hazards arising from the substance or mixture

Product will burn in a fire. Keep container tightly closed when not in use. Store away from heat, sparks, and other sources of ignition.

Hazardous combustion products

Carbon monoxide, Carbon dioxide, Hydrocarbons

Advice for firefighters

As in any fire, wear self-contained breathing apparatus operated in pressure-demand mode (NIOSH approved or equivalent) and full protective gear.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

No special requirements.

Environmental precautions

As with all industrial chemicals, use of good chemical hygiene and environmental stewardship practices is recommended.

Methods and material for containment and cleaning up

With a shovel or scoop place into appropriate containers for reuse, recycle or disposal.

Reference to other sections

Refer to Section 8, Exposure Control/Personal Protection.

SECTION 7: Handling and storage

Precautions for safe handling

Use with adequate ventilation. Do not eat, drink or smoke in processing areas. Follow all protective equipment

recommendations provided in Section 8.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry place away from direct light to maintain quality.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters:

OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), and any other exposure limit used or recommended:

OSHA			ACGIH	
PEL	AL	STEL	TLV	STEL

No hazardous ingredients
subject to disclosure

PEL = Permissible Exposure Limit; AL = Action Limit; NE = Not Established; RD = Respirable Dust; STEL = Short Term Exposure Limit; TD = Total Dust; TLV = Threshold Limit Value, I = Inhalable Fraction, TWA = Time Weighted Average

Exposure controls

Appropriate Engineering Controls: Good general room ventilation should be sufficient to control airborne contaminants to safe levels.

Individual Protection Measures

Eye/Face Protection: Follow facility guidelines and requirements set forth in 29 CFR 1910.133.

Hand Protection: Wear impervious gloves selected and used in accordance with the OSHA requirements at 29 CFR section 1910.138.

Skin and Body Protection: Follow requirements set forth in 29 CFR 1910.132. The use of proper chemical hygiene practices is recommended.

Respiratory Protection: No respiratory protection required under normal conditions of use. Follow a respiratory protection program that meets 29 CFR 1910.134 and ANSI Z88.2 requirements whenever work place conditions warrant the use of a respirator.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical State:	Solid
Color:	Colorless
Odor:	None
Odor Threshold:	Not Determined
pH:	Not Applicable
Melting Point/Freezing Point:	Not Determined
Initial Boiling Point and Boiling Range:	Not Applicable
Flash Point:	Not Applicable
Evaporation Rate (water = 1):	Not Applicable
Flammability (solid/gas):	See Section 5
Particle Characteristics (median particle size):	Not Applicable
Lower Explosive (Flammable) Limit:	Not Applicable
Upper Explosive (Flammable) Limit:	Not Applicable
Vapor Pressure:	Negligible
Vapor Density (Air=1):	Not Applicable

Relative Density (water = 1):	1.01
Solubility (water):	Insoluble
Partition Coefficient: n-octanol/water:	Not Determined
Autoignition Temperature:	Not Determined
Decomposition Temperature:	Not Determined
Kinematic Viscosity:	Not Applicable

SECTION 10: Stability and reactivity

Reactivity	Hazardous polymerization will not occur.
Chemical stability	This material is stable when properly handled and stored.
Possibility of hazardous reactions	None Known
Conditions to avoid	None Known
Incompatible materials	None Known
Hazardous decomposition products	Not Applicable

SECTION 11: Toxicological information

Description toxicological (health) effects and the available data used to identify those effects:

Routes of Entry: Skin contact; Eye contact; Process Vapor/Dust Inhalation.

Symptoms related to the physical, chemical, and toxicological characteristics:

At processing temperatures, the combined ingredients (elastomer and other processing ingredients) may emit fumes and vapors that may cause irritation to the eyes. Processing operations may create vapors or fumes which may cause respiratory tract irritation.

Delayed and immediate effects and chronic effects from short- and long-term exposure:

Numerical Values of Toxicity

Acute Toxicity Estimates:	Oral LD₅₀ (rat)	Dermal LD₅₀ (rabbit)	Inhalation LC₅₀ (rat)
No hazardous ingredients subject to disclosure			

Skin Corrosion/Irritation:	Does not meet classification criteria.
Serious Eye Damage/Irritation:	Does not meet classification criteria.
Respiratory or Skin Sensitization:	Not expected to be a sensitizer.
Reproductive Toxicity:	Not known or reported to cause reproductive or developmental toxicity.
Germ Cell Mutagenicity:	Not known or reported to be mutagenic.
STOT – single exposure:	Does not meet classification criteria.
STOT – repeated exposure:	Data lacking for classification

Carcinogenicity Listings by IARC and NTP

	IARC	NTP
No hazardous ingredients subject to disclosure		

Section Comments: No information available.

SECTION 12: Ecological information

Toxicity: No information available.

Numerical Values of Toxicity

	Aquatic EC ₅₀ (48H)	Aquatic EC ₅₀ (96H)	Aquatic LC ₅₀ (96H)
No hazardous ingredients subject to disclosure			

Persistence and Degradability: Not Determined

Bioaccumulative Potential: Not Determined

Mobility in Soil: Not Determined

SECTION 13: Disposal considerations

Waste treatment methods

Waste resulting from this product as supplied is not known to be classified as a hazardous waste per the current listings and characteristics contained in 40 CFR Part 261, and its Appendices. It is the generator's responsibility to determine, per the regulation, the applicability of the Resource Conservation and Recovery Act (RCRA), as well as all state, local, or other governmental agency waste disposal regulations, to the particular waste materials prior to treatment or disposal.

SECTION 14: Transport information

U.S. Department of Transportation UN Number:

This product is not defined or designated as a hazardous material.

Canadian Transport of Dangerous Goods (TDG):

This product is not classified as a dangerous good for transport.

Mexican Regulation for the Land Transport of Hazardous Materials and Wastes:

This product is not defined or designated as a hazardous material.

International Air Transport Authority (IATA/ICAO) UN Number:

This product is not classified as a dangerous good for transport.

SECTION 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Chemical Inventory Status:	
Australia (AIIIC):	All components of this product are included on this Inventory/List, or are otherwise exempt.
Canada (DSL):	All components of this product are included on this Inventory/List, or are otherwise exempt.
China (IECSC):	All components of this product are included on this Inventory/List, or are otherwise exempt.
Japan (ENCS):	All components of this product are included on this Inventory/List, or are otherwise exempt.
Korea (KECL):	All components of this product are included on this Inventory/List, or are otherwise exempt.
Philippines (PICCS):	Not Listed
Taiwan (TCSI):	All components of this product are included on this Inventory/List, or are otherwise exempt.
Thailand (TECI)	Not Listed
United States (TSCA):	All components of this product are included on the TSCA Inventory, with a commercial designation of Active, or are otherwise exempt.
Vietnam (VNECI):	Not Listed

United States Regulatory Status

TSCA (Toxic Substance Control Act)

This product contains the following chemical(s) subject to TSCA 12(b) export notification: None

TSCA Significant New Use Rules (SNUR): None

EPCRA (Emergency Planning and Community Right to Know Act)

Section 311/312 (SARA Title III) Hazard Categories: None

Section 313 (SARA Title III) Toxic Chemical Release Inventory Reporting:

This product contains the following EPCRA Section 313 chemical(s) exceeding the *de minimis* amount subject to reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (40 CFR 372):

Chemical Name	CAS Number	Percent by Weight
None		

State Legislation

California Proposition 65: To the best of our knowledge, no substances known to the state of California to cause cancer or reproductive harm are contained in this product. However, please be advised that Zeon Chemicals L.P. does not routinely test for the presence of these substances.

SECTION 16: Other information

National Fire Protection Association:

Health Hazard: 0
Fire Hazard: 1
Instability Hazard: 0
Special Hazard: None

Hazardous Materials Identification System:

Health: 0
Flammability: 1
Physical Hazard: 0
PPE Code To be determined by workplace conditions.

Abbreviations:

ANSI: American National Standards Institute
APS: Average Particle Size in microns
BCF: Bioconcentration Factor
CFR: Code of Federal Regulations
EC₅₀: Effective Concentration, 50%
GHS: Globally Harmonized System for Classification and Labeling of Chemicals
HCS: Hazard Communication Standard
IARC: International Agency for Research on Cancer
ICAO: International Civil Aviation Organization
LC₅₀: Lethal Concentration, 50%
LD₅₀: Lethal Dose, 50%
NTP: National Toxicology Program
OSHA: Occupational Safety and Health Administration
SARA: Superfund Amendment and Reauthorization Act
SDS: Safety Data Sheet
STOT: Specific Target Organ Toxicant
U.S.: United States

Prepared by: This SDS was prepared by Zeon Specialty Materials Inc..

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User's Responsibility: This bulletin cannot cover all possible situations which the user may experience during processing. Each aspect of your operation must be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin must be provided to your employees or customers. It is your responsibility to use this information to develop appropriate work practice guidelines and employee instructional programs for your operation.

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END of SDS