

PRODUCT: JX135FR AND JX136FR SERIES

1. PRODUCT INFORMATION

Trade Name: JX135FR/JX136FR series
Product description: Nanofiber coated, cellulose based filter media

Relevant identified uses of the substance or mixture and uses advised

Relevant identified uses: Filtration
Recommended use: Filtration applications, for industrial processing only

Manufacturer/Importer/Supplier/Distributor information

Company Name: JP Air Tech
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2. HAZARD'S IDENTIFICATION

Potential Health Effects:
Physical hazards not classified
Health hazards Sensitization, skin Category 1
Carcinogenicity Category 1A
OSHA defined hazards Combustible dust



Label elements

Signal word Danger
Hazard statement May form combustible dust concentrations in air. May cause an allergic skin reaction.
May cause cancer by inhalation.

Emergency Overview

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. Observe good industrial hygiene practices. Avoid breathing dust. Prevent dust accumulation to minimize explosion hazard. Ground/bond container and

receiving equipment. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed.

Response

If exposed or concerned: Get medical advice/attention. If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.

Storage

Store in a cool, dry locations. Store away from incompatible materials.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

None known.

3. INFORMATION/ COMPOSITION ON INGREDIENTS

Substances

Chemical name	CAS number	%
Cellulose pulp	65996-61-4	40 - 60
Formaldehyde	50-00-0	0.1 - 0.5

Mixtures

Not applicable

4. FIRST AID MEASURES

INHALATION

Move to fresh air. Call a physician if symptoms develop or persist.

EYE CONTACT

Do not rub eyes. Irrigate eye with water. Seek medical attention if irritation persists.

SKIN CONTACT

Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders. Seek medical attention and take along these instructions.

INGESTION

Rinse mouth. Get medical attention if symptoms occur.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED

Dermatitis. Rash. Prolonged exposure may cause chronic effects.

INDICATION OF MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed

GENERAL INFORMATION

If exposed or concerned, get medical advice/attention. Ensure that medical personnel are aware of the materials involved, and take precautions to protect themselves. Wash contaminated clothing before reuse

5. FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂). Apply extinguishing media carefully to avoid creating airborne dust. Avoid high pressure media which could cause the formation of potentially exposable dust-air mixture.

UNSUITABLE EXTINGUISHING MEDIA:

Do not use water jet as an extinguisher, as this will spread the fire.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

Explosion hazard: Avoid generating dust; fine dust dispersed in air in sufficient concentrations and in the presence of an ignition source is a potential dust explosion hazard. During fire, gases hazardous to health may be formed.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS:

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

FIRE FIGHTING EQUIPMENT/INSTRUCTIONS:

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

SPECIFIC METHODS:

Use standard firefighting procedures and consider the hazards of other involved materials.

GENERAL FIRE HAZARDS:

If processed in such a way that dust is generated: May form combustible dust concentrations in air.

6. ACCIDENTAL RELEASE MEASURES SPILL CLEAN-UP PROCEDURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Keep unnecessary personnel away. Use only non-sparking tools. 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. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of dust. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. For personal protection, see section 8 of the SDS.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Minimize dust generation and accumulation. Collect dust using a vacuum cleaner equipped with HEPA filter.

ENVIRONMENTAL PRECAUTIONS:

Dispose of in accordance with local regulations.

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:

Obtain special instructions before use. Do not handle until safety precautions have been read and understood. Avoid breathing dust. Avoid contact with eyes, skin, and clothing. Persons susceptible to allergic reactions should not handle this product. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Minimize dust generation and accumulation. Avoid significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Keep away from heat/sparks/open/ flames/ hot surfaces. -No smoking. Explosion- proof general and local exhaust ventilation.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

Store in a cool, dry place out of direct sunlight.

8. EXPOSURE CONTROL /PERSONAL PROTECTION

Occupational exposure limits

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Component	Type	Value
Formaldehyde (CAS 50-00-0)	STEL	2 ppm
TWA		0.75 ppm

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Component	Type	Value	Form
Cellulose (CAS 9004-34-6)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total Dust.

US. OSHA Table Z-3 (29 CFR 1910.1000)

Additional Component	Type	Value	Form
Dust	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total Dust.
		50 mppcf	Total Dust.
		15 mppcf	Respirable fraction

US. ACGIH Threshold Limit Values

Component	Type	Value
Cellulose (CAS 9004-34-6)	TWA	10 mg/m3
Formaldehyde (CAS 50-00-0)	Ceiling	0.3 ppm

Additional Component	Type	Value	Form
Dust	TWA	3 mg/m3	Respirable particles.
		10 mg/m3	Inhalable particles.

US. NIOSH: Pocket Guide to Chemical Hazards

Component	Type	Value	Form
Cellulose (CAS 9004-34-6)	TWA	5 mg/m3	Respirable
		10 mg/m3	Total
	Ceiling	0.1 ppm	
		TWA	0.016 ppm

BIOLOGICAL LIMIT VALUES:

No biological exposure limits noted for the ingredient(s).

APPROPRIATE ENGINEERING CONTROLS:

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment:

EYE/FACE PROTECTION:

Wear safety glasses with side shields (or goggles).

SKIN PROTECTION:

Hand protection:

Wear protective gloves.

Skin Protection:

Wear suitable protective clothing.

RESPIRATORY PROTECTION

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where been established), an approved respirator must be worn. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.

THERMAL HAZARDS

Wear appropriate thermal protective clothing, when necessary.

GENERAL HYGIENE

Observe any medical surveillance requirements. When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling after the material and before eating, drinking and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State

Solid.

Form

Rolls.

Color

Various colors.

Odor

Formaldehyde.

Odor threshold

Not available.

pH

Not available.

Melting point/freezing point

Not available.

Initial boiling point and boiling range

Not available.

Flash point

Not available.

Evaporation rate

Not available.

Flammability (solid, gas)

Fine particles may form explosive mixtures with air.

Upper/lower flammability or explosive limits

Flammability limit – lower (%)

Not available

Flammability limit – upper (%)

Not available.

Explosive limit - lower (%)

Not available.

Explosive limit - upper (%)

Not available.

Vapor pressure

Not available.

Vapor density

Not available.

Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not available.
Oxidizing properties	Not available.

10. STABILITY AND REACTIVITY

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials. Minimize dust generation and accumulation. Temperatures exceeding the composition temperature.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Fire or excessive heat may produce hazardous decomposition products.

11. TOXICOLOGICAL INFORMATIONS

Information on likely route of exposure

Inhalation	Dust may imitate respiratory system. May cause cancer by inhalation.
Skin contact	Dust or powder may imitate the skin. May cause an allergic skin reaction.
Eye contact	Dust may imitate the eye.
Ingestion	Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Dust may irritate respiratory tract, skin and eyes. May cause an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects

Acute toxicity	Not expected to be acutely toxic.
Skin corrosion/irritation	Prolonged skin contact may cause temporary skin irritation.
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Respiratory sensitization	Not a respiratory sensitizer.
Skin sensitization	May cause an allergic reaction.
Germ cell mutagenicity	No data available to indicted product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity

May cause cancer by inhalation.

IARC Monographs. Overall Evaluation of Carcinogenicity

No Listed.

NTP Report on Carcinogens

No Listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

No Regulated.

Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity-single exposure	Not classified.
Specific target organ toxicity-repeated exposure	Not classified.
Aspiration hazard	Due to the physical form of the product it is not expected to be an aspiration hazard.
Further information	None known.

12. ECOLOGICAL INFORMATION

Eco toxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Persistence and degradability	No data is available on the degradability of this product.
Bio accumulative potential	
Mobility in soil	No data available.
Other adverse effects	No other adverse environmental effects (e.g. Ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. DISPOSAL CONSIDERATION

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed disposal site. Dispose of content/container in accordance with local/regional/national/international regulations.
Local disposal regulation	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues/unused products	Dispose of in accordance with local regulations.
Contaminated Packaging	Recover and reclaim or recycle, if practical.

14. TRANSPORT INFORMATION

DOT	Not regulated as dangerous goods.
IATA	Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods.
Transport in bulk according To Annex II of MARPOL 73/78 and the IBC code	Not applicable.

15. REGULATORY INFORMATION

US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)	Not regulated.
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	Not regulated.
CERCLA Hazardous Substance List (40 CFR 302.4)	Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - Yes
Pressure Hazard - Yes
Reactivity Hazard - Yes

SARA 302 Extremely hazardous substance

Not listed.

**SARA 311/312 Hazardous chemical - Yes
chemical**

SARA 313 (TRI Reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA)

Not regulated.

US state regulations

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Not listed.

US. Pennsylvania Worker and Community Right-to-Know Law

Not listed.

US. Rhode Island RTK

16. OTHER INFORMATION

Further Information

Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing and Handling of Combustible Particulate Solids for safe handling.

List of Abbreviations

STEL: Short term exposure limit.
TMA: Time weight average.
PEL: Permissible exposure limit.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.