

Voluntary product information following the Safety Data Sheet format

Revision date: 9/4/2018 Version: 3 Language: en-US Date of first version: 12/15/2015

### Release Films

Material number 1105

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## 1. Product and company identification

## **Product identifier**

Trade name: Release Films

DAHLAR 9000, DAHLAR 9200, DAHLAR 9301B, DAHLAR 9300Y, DAHLVIA 9173MA

(fluoropolymer)

### Relevant identified uses of the substance or mixture and uses advised against

General use: Article: Release Film

### Details of the supplier of the safety data sheet

Company name: Airtech International, Inc. Airtech Europe Sarl

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### **Emergency phone number**

CHEMTREC EMERGENCY PHONE: Within USA/Canada: 1-(800)424-9300

International: +1 703-741-5970

## 2. Hazards identification

#### **Emergency overview**

Appearance: Form: solid

Color: varying

Odor: odorless

Classification: Article not subject to hazard labelling or classification.

### Regulatory status

This material is not considered hazardous by the U.S. OSHA Hazard Communication

Standard (29 CFR 1910.1200) and SIMDUT in Canada.



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#### Hazards not otherwise classified

Toxic fumes may be emitted at elevated temperatures. Do not breathe vapor. Inhalation of fumes from burning or heating may cause polymer fume fever, a temporary flu-like illness with fever and chills. Processing, e.g. by cutting, sawing or grinding, can produce particles and dust. Avoid inhalation of dusts, as even inert dusts may functionally affect respiratory organs.

see section 11: Toxicological information

# 3. Composition / Information on ingredients

Chemical characterization:

Article: Thermoplastic film

## 4. First aid measures

In case of inhalation: In case of inhalation of decomposition products, affected person should be moved into

fresh air and kept still. If the casualty has difficulty breathing, call a doctor immediately.

Following skin contact: Remove residues with soap and water. After contact with molten product, cool skin area

rapidly with cold water. Do not peel solidified product off the skin. Seek medical attention.

After eye contact: In the event of irritation from processing vapors: Immediately flush eyes with plenty of

flowing water for 10 to 15 minutes holding eyelids apart. In case of troubles or persistent

symptoms, consult an opthalmologist.

After swallowing: Not a probable route of exposure.

In the case of the formation of dust: Rinse mouth. Seek medical treatment in case of

troubles.

### Most important symptoms/effects, acute and delayed

In case of inhalation:

Inhalation of dust may cause irritation of the respiratory system. Inhalation of fumes from burning or heating may cause polymer fume fever, a temporary flu-like illness with fever and chills. The following symptoms may occur: Irritation of nose, throat, lung cough, discomfort, shortage of breath, headache, dizziness, nausea, vomiting. Symptoms usually appear after 2 hours and decline within the next 36 to 48 hours. In case of prolonged exposure: Possible danger of damage to liver and kidneys.

After contact with skin: Thermal decomposition products or aerosols can cause irritation.

Other symptoms: Itching redness of the skin and oedema (swelling).

The melted product can cause severe burns.

After eye contact:

Process vapors can irritate the eyes. Dust contact with the eyes can lead to mechanical

irritation.

### Information to physician

Treat symptomatically.

# 5. Fire fighting measures

Flash point/flash point range:

No data available

Auto-ignition temperature:

No data available

Suitable extinguishing media:

Water spray jet, dry chemical powder, foam, carbon dioxide



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Extinguishing media which must not be used for safety reasons:

Full water jet.

## Specific hazards arising from the chemical

This material is combustible, but will not ignite readily. Toxic fumes may be emitted at elevated temperatures.

In case of fire may be liberated: Hydrogen fluoride, Carbonyl difluoride,

Tetrafluoroethylene, Hexafluoropropylene, Perfluoroisobutylene, Carbon monoxide and carbon dioxide.

Protective equipment and precautions for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information: Seal off endangered area. Cool endangered containers with water spray and, if possible,

remove from danger zone. Use a water fog to control vapors. Do not breathe fumes. Do

not allow fire water to penetrate into surface or ground water.

## 6. Accidental release measures

Personal precautions: Handle in accordance with good industrial hygiene and safety practice.

At processing: Avoid the formation of aerosol/vapors. Avoid dust formation. Avoid inhalation and contact with skin and eyes. Wear appropriate protective equipment. Keep unprotected people away. Ensure adequate ventilation, especially in confined areas.

Environmental precautions:

Do not allow to penetrate into soil, waterbodies or drains.

Methods for clean-up: Take up mechanically, placing in appropriate containers for disposal. Dispose of waste

according to applicable legislation.

# 7. Handling and storage

### Handling

Advices on safe handling: Handle in accordance with good industrial hygiene and safety practice.

At processing: Provide adequate ventilation, and local exhaust as needed. Avoid dust formation. Avoid the formation of aerosol/vapors. Avoid inhalation and contact with skin and eyes. Wear appropriate protective equipment. Keep unprotected people away. When using do not eat, drink or smoke.

Precautions against fire and explosion:

Take standard precautions to prevent fire.

## Storage

Requirements for storerooms and containers:

Keep in a cool place. Keep container dry. Protect from direct sunlight. Keep away from

incompatible materials. Store at room temperature.

Hints on joint storage: Incompatible materials: Strong bases, strong acids, strong oxidizing agents.

Keep away from food and drinks.



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## 8. Exposure controls / personal protection

### **Exposure guidelines**

Occupational exposure limit values:

Туре	Limit value	
USA: ACGIH: TWA	10 mg/m³ (Dust limit value, inhalable fraction)	
USA: ACGIH: TWA	3 mg/m³ (Dust limit value, respirable fraction)	
USA: OSHA: TWA	15 mg/m³ (Dust limit value, inhalable fraction)	
USA: OSHA: TWA	5 mg/m³ (Dust limit value, respirable fraction)	

### **Engineering controls**

Provide good ventilation and/or an exhaust system in the work area.

In case of development of vapors or dust (at processing): Use local exhaust.

See also information in chapter 7, section storage.

### Personal protection equipment (PPE)

Eye/face protection At processing (recommended): Safety glasses in accordance with OSHA 29 CFR:

1910.133 or ANSI Z87.1-2010.

Skin protection At processing (recommended): Wear suitable protective clothing.

Recommendation:

Protective gloves according to OSHA Standard - 29 CFR: 1910.138.

Glove material: nitrile rubber, neoprene (0.11 mm)

Breakthrough time: >480 min.

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Respiratory protection: Respiratory protection is not necessary if room is well ventilated.

At processing:

When vapors form, use respiratory protection. The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing

apparatus must be used.

General hygiene considerations:

Handle in accordance with good industrial hygiene and safety practice. Wash hands

before breaks and after work. When using do not eat, drink or smoke.

At processing:

Avoid contact with skin, eyes, and clothing. Do not breathe vapor. Do not breathe dust.

# 9. Physical and chemical properties

### Information on basic physical and chemical properties

Appearance: Form: solid

Color: varying

Odor: odorless

Odor threshold: No data available

pH value:

Melting point/freezing point:

Initial boiling point and boiling range:

Flash point/flash point range:

Evaporation rate:

No data available
No data available
No data available

Flammability: This material is combustible, but will not ignite readily.



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Explosion limits:

Vapor pressure:

Vapor density:

Density:

No data available

No data available

No data available

No data available

Water solubility: insoluble

Partition coefficient: n-octanol/water:

Auto-ignition temperature:

Thermal decomposition:

No data available

No data available

Additional information: No data available

## 10. Stability and reactivity

Reactivity: Refer to section: Possibility of hazardous reactions.

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions

No dangerous reactions with proper and specified storage and handling

Conditions to avoid: Keep away from heat. Protect from direct sunlight. Avoid generation of dust. Avoid the

formation of aerosol/vapors.

Incompatible materials: Strong bases, strong acids, strong oxidizing agents.

Hazardous decomposition products:

Toxic fumes may be emitted at elevated temperatures.

> 270 °C: Hydrogen fluoride; > 380 °C: Carbonyl difluoride, Tetrafluoroethylene, Hexafluoropropylene, Perfluoroisobutylene, carbon monoxide and carbon dioxide.

Thermal decomposition: No data available

# 11. Toxicological information

#### **Toxicological tests**

Toxicological effects:

The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Lack of data.

Acute toxicity (dermal): Lack of data.

Acute toxicity (inhalative): Lack of data.

Skin corrosion/irritation: Lack of data.

Serious eye damage/irritation: Lack of data. Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Lack of data.

Germ cell mutagenicity/Genotoxicity: Lack of data.

Carcinogenicity: Lack of data. Reproductive toxicity: Lack of data. Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Lack of data. Specific target organ toxicity (repeated exposure): Lack of data.

Aspiration hazard: Lack of data.



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Other information:

Toxic fumes may be emitted at elevated temperatures. Processing, e.g. by cutting, sawing or grinding, can produce particles and dust. Dust may irritate airways and cause bronchitis symptoms.

### **Symptoms**

In case of inhalation:

Inhalation of dust may cause irritation of the respiratory system. Inhalation of fumes from burning or heating may cause polymer fume fever, a temporary flu-like illness with fever and chills. The following symptoms may occur: Irritation of nose, throat, lung cough, discomfort, shortage of breath, headache, dizziness, nausea, vomiting. Symptoms usually appear after 2 hours and decline within the next 36 to 48 hours. In case of prolonged exposure: Possible danger of damage to liver and kidneys.

After contact with skin: Thermal decomposition products or aerosols can cause irritation.

Other symptoms: Itching redness of the skin and oedema (swelling).

The melted product can cause severe burns.

After eye contact:

Process vapors can irritate the eyes. Dust contact with the eyes can lead to mechanical

irritation.

# 12. Ecological information

### **Ecotoxicity**

Effects in sewage plants: The insoluble part can be precipitated mechanically in suitable sewage treatment plants.

Further details: No data available

## Mobility in soil

No data available

#### Persistence and degradability

Further details: Product is not biodegradable.

#### Additional ecological information

General information: Do not allow to penetrate into soil, waterbodies or drains.

# 13. Disposal considerations

### **Product**

Recommendation:

Disposal of fluoropolymer containing wastes must follow applicable federal, state and local regulations.

Waste must not be mixed with domestic or industrial waste that will be incinerated unless the facilities are equipped and permitted to handle acidic combustion products. Preferred options for disposal are recycling and landfill. Incinerate only if the incinerator is fitted and permitted to scrub out hydrogen fluoride and other acidic combustion gases.

### Contaminated packaging

Recommendation:

Dispose of waste according to applicable legislation. Handle contaminated packages in the same way as the substance itself. Non-contaminated packages may be recycled. Do not remove label until container is thoroughly cleaned.



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## 14. Transport information

## **USA: Department of Transportation (DOT)**

Proper shipping name: Not restricted

Sea transport (IMDG)

Proper shipping name: Not restricted

Marine pollutant:

Air transport (IATA)

Proper shipping name: Not restricted

#### **Further information**

No dangerous good in sense of these transport regulations.

## 15. Regulatory information

### National regulations - U.S. Federal Regulations

This product is an article as defined by TSCA regulations, and is exempt from TSCA inventory listing requirements.

### National regulations - Great Britain

Hazchem-Code: -

## 16. Other information

Hazard rating systems: NFPA Hazard Rating:

1 0

Health: 1 (Slight)
Fire: 1 (Slight)
Reactivity: 0 (Minimal)
HMIS Version III Rating:
Health: 1 (Slight)
Flammability: 1 (Slight)

Physical Hazard: 0 (Minimal)
Personal Protection: X = Consult your supervisor

Reason of change: Changes in section 1: Company/undertaking identification

Department issuing data sheet

Contact person: see section 1: Dept. responsible for information

This data sheet cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, and which additional precautions may be necessary. All health and safety information contained in this data sheet should be provided to your employees and customers. It is your responsibility to develop appropriate workplace instructions and training programs for employees.

As the conditions and methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this product. The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. All statements or suggestions are made without warranty, expressed or implied, regarding accuracy of information, the hazards connected with the use of the product or the results to be obtained from the use thereof.

