

Voluntary product information following the Safety Data Sheet format

Revision date: Version:

2/11/2020

Language: Date of first version: 5/21/2015

en-US

Become a

member!

### Release Films

Material number 1088

## 1. Product and company identification

#### **Product identifier**

Trade name:

Release Films

Wrightlon® 5200, A4000, A4000 LFST, Airtech MR1/MR2, RF242, RF260, TF125,

Wrightlon® 4500\*

## 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.

5700 Skylab Road

Huntington Beach, CA 92647 E-mail: airtech@airtechintl.com

Website: www.airtechonline.com Telephone: +1 714.899.8100 Department responsible for

information:

Telephone: +1 714.899.8100 E-mail: airtech@airtechintl.com

Tygavac Advanced Materials Ltd.

The Causeway

Broadway Business Park Chadderton, Oldham OL9 9XD United Kingdom Website: www.tygavac.co.uk Telephone: +44 161.947.1610 Department responsible for

information:

Telephone: +44 161.947.1610 E-mail: sales@tygavac.co.uk

Airtech Europe Sarl

Zone industrielle Haneboesch

L ZabVIDifferdange

Luxembourg

Website: www.airtech.lu Telephone: +352 582.282

Department responsible for information:

Telephone: +352 582.282 E-mail: sales@airtech.lu

Airtech Asia Ltd. No. 161 of Anyuan Rd **Chagugang County** Wuqing District

301721, Tianjin, P.R. China Website: www.airtech.asia Telephone: +86 22 8862 9800 Telefax:: +86 22 8862 9900

Department responsible for information:

Telephone: +86 22 8862 9800

E-mail: airtech.asia@airtechasia.com.cn

### **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).



Voluntary product information following the Safety Data Sheet format

Revision date: Version:

2/11/2020

Language:

en-US Date of first version: 5/21/2015

Page:

2 of 8

## 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

\* Hazardous ingredients: applies only to WL4500

#### Relevant ingredients:

CAS No.	Designation	Content	Classification
CAS 127-19-5	N,N-Dimethylacetamide	< 1 %	Acute Toxicity - dermal - Category 4. Acute Toxicity - inhalative - Category 4. Eye Irritation - Category 2A. Reproductive toxicant - Category 1B.

### 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.



oluntary product information following the Safety Data Sheet format

Revision date:

2/11/2020

Version:

en-US

#### Language: Date of first version: 5/21/2015

#### Release Films

Material number 1088

Page:

3 of 8

## 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

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.



Voluntary product information following the Safety Data Sheet format

Revision date: Version:

2/11/2020

Language: en-US Date of first version: 5/21/2015

## Release Films

Material number 1088

Page:

4 of 8

## 8. Exposure controls / personal protection

#### **Exposure guidelines**

Occupational exposure limit values:

CAS No.	Designation	Туре	Limit value
	Release Films	USA: ACGIH: TWA	10 mg/m³ (Dust limit value, inhalable fraction)
127-19-5	N,N- Dimethylacetamide	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)
		USA: ACGIH: TWA	10 ppm (may be absorbed through the skin)
		USA: NIOSH: TWA	35 mg/m³; 10 ppm (may be absorbed through the skin)
		USA: OSHA: TWA	35 mg/m³; 10 ppm (may be absorbed through the skin)

#### Biological limit values:

CAS No.	Designation	Туре	Limit value	Parameter	Sampling
127-19-5	N,N- Dimethylacetamide		30 mg/g creatinine	N- Methylacetamide	end of shift at end of workweek

#### **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.

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



Voluntary product information following the Safety Data Sheet format

Revision date: Version:

2/11/2020

en-US

Language: Date of first version: 5/21/2015

Page:

5 of 8

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Appearance:

Form: solid

Color: varying

Odor:

odorless

Odor threshold:

No data available

Release Films

pH value:

No data available

Melting point/freezing point:

No data available

Initial boiling point and boiling range:

No data available

Flash point/flash point range:

No data available

Evaporation rate:

No data available

Flammability:

This material is combustible, but will not ignite readily.

**Explosion limits:** 

No data available

Vapor pressure:

No data available

Vapor density:

No data available No data available

Density: Water solubility:

insoluble

Partition coefficient: n-octanol/water:

No data available

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:

Incompatible materials:

Keep away from heat. Protect from direct sunlight. Avoid generation of dust. Avoid the

formation of aerosol/vapors.

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



Voluntary product information following the Safety Data Sheet format

Revision date:

2/11/2020

Version: Language:

en-US

## Date of first version: 5/21/2015

Page:

6 of 8

## 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.

Release Films
Material number 1088

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.

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.



Voluntary product information following the Safety Data Sheet format

Revision date:

2/11/2020

Version: Language:

Date of first version: 5/21/2015

en-US

## Release Films

Material number 1088

Page:

7 of 8

### 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.

## 14. Transport information

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

Proper shipping name:

Not restricted

#### Sea transport (IMDG)

Proper shipping name:

Not restricted

Marine pollutant:

no

#### 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

Product:

This product is an article as defined by TSCA regulations, and is exempt from

TSCA inventory listing requirements.

N,N-Dimethylacetamide:

NIOSH Recommendations:

Occupational Health Guideline: 0218

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

N.N-Dimethylacetamide: Idaho Air Pollutant List:

Title 585: AAC: 1.75 - EL: 2,33 - OEL: 35 - Title 586: -

Massachusetts Haz. Substance codes: 2,4,6

Minnesota Haz. Substance:

Codes: AO - Ratings: - Status: -Pennsylvania Haz. Substance code: -California Proposition 65: cancer



Voluntary product information following the Safety Data Sheet format

Revision date: Version:

2/11/2020

Language:

en-US Date of first version: 5/21/2015

### Release Films

Material number 1088

Page:

8 of 8

### National regulations - Great Britain

Hazchem-Code:

### 16. Other information

NFPA Hazard Rating: 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



#### Abbreviations and acronyms

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ADR: European Agreement concerning the International Carriage of Dangerous Goods

CAS: Chemical Abstracts Service CFR: Code of Federal Regulations

CLP: Classification, Labelling and Packaging

DMEL: Derived minimal effect level DNEL: Derived no-effect level EC: European Community EN: European Standard

IATA: International Air Transport Association

IBC Code: International Code for the Construction and Equipment of Ships carrying

Dangerous Chemicals in Bulk

IMDG Code: International Maritime Dangerous Goods Code

MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution

from Ships

OSHA: Occupational Safety and Health Administration

PBT: Persistent, bioaccumulative and toxic PNEC: Predicted no-effect concentration

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail

SVHC: Substance of Very High Concern TSCA: Toxic Substance Control Act

vPvB: Very persistent and very bioaccumulative

Reason of change:

Contact person:

General revision

Department issuing data sheet

see section 1: Department 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.