1. Product and company identification

Product identifier

Trade name: Pressure Sensitive Tapes
Econobreaker 2R, Flashbreaker® 1, 2, 5, Flashbreaker® 1R, 2R, 5R, Flashbreaker® 1(HT), 2(HT), 2R(HT), Flashbreaker® 2CBS, Flashbreaker® PS1, Airhold 1CBS, Airhold 10 CBS, Teflease MG2, MG2R, MG2A, MG2E Yellow, MG2 Orange, Wrightlease 2, 2R, Toolwright 3, 5, Tooltec A005, A007, A012, Tooltec CS5, CA5, Wrightcast 8500 PS, Airkap 1

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

General use: Article: Pressure sensitive tape

Details of the supplier of the safety data sheet

Company name: Airtech International, Inc.
Street/POB-No.: 5700 Skylab Road
Postal Code, city: Huntington Beach, CA 92647
E-mail: airtech@airtechintl.com
Telephone: +1 714.899.8100
Telefax: +1 714.899.8179
Dept. responsible for information:
Telephone: + 1 714.899.8100
Website: www.airtechonline.com
E-mail: airtech@airtechintl.com

Additional information:
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Zone industrielle Haneboesch
L – 4562 Differdange
Luxembourg
E-mail: sales@airtech.lu
Website: www.airtech.lu
Telephone: +352 582.282

Tygavac Advanced Materials Ltd.
The Causeway
Broadway Business Park
Chadderton, Oldham
OL9 9XD United Kingdom
E-mail: sales@tygavac.co.uk
Website: www.tygavac.co.uk
Telephone: + 44 161.947.1610

Airtech Asia Ltd. Ltd.
888 Airtech Avenue
Huangtai Industrial Development Center
Xiaozhan Country, Jinnan District
Tianjin, China  300353
E-mail: airtechasia@airtechintl.com
Website: www.airtech.asia
Telephone: +86 22.8622.9800
2. Hazards identification

Emergency overview
Appearance: Form: solid
Color: varying
Odor: odorless
Classification: This material is classified as not hazardous.

Regulatory status
This material is not considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200) and SIMDUT in Canada.

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: Pressure sensitive tape
Carrier type: Polyester, PTFE, PTFE/Glass, cloth, fluoropolymer, nylon or polyimide
Adhesive type: Silicon, rubber or acrylic

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: Thoroughly wash skin with soap and water. In case of skin irritation, consult a physician.

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 ophthalmologist.

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. Overheating released mist or vapors can irritate the respiratory tracts. 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 fog, dry chemical, foam, carbon dioxide
Extinguishing media which must not be used for safety reasons:
High power 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: Caprolactam, Hydrogen fluoride, Carbonyl difluoride, Tetrafluoroethylene, Hexafluoropropane, Perfluoroisobutylene, Silicon dioxide (SiO2), Nitrogen oxides (NOx), 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 generation of dust. Avoid inhalation and contact with skin and eyes. Wear 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 the formation of aerosol/vapors. Avoid generation of dust. Avoid inhalation and contact with skin and eyes. Wear 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. Do not freeze. Store at room temperature.

Hints on joint storage: Incompatible materials: Strong bases, strong acids, strong oxidizing agents. Keep away from food and drinks.

8. Exposure controls / personal protection

Exposure guidelines

Occupational exposure limit values:

<table>
<thead>
<tr>
<th>Type</th>
<th>Limit value</th>
</tr>
</thead>
<tbody>
<tr>
<td>USA: ACGIH: TWA</td>
<td>10 mg/m³ Dust limit value, indicativ; inhalable fraction</td>
</tr>
<tr>
<td>USA: ACGIH: TWA</td>
<td>3 mg/m³ Dust limit value, indicativ; respirable fraction</td>
</tr>
<tr>
<td>USA: OSHA: TWA</td>
<td>15 mg/m³ Dust limit value inhalable fraction</td>
</tr>
<tr>
<td>USA: OSHA: TWA</td>
<td>5 mg/m³ Dust limit value respirable fraction</td>
</tr>
</tbody>
</table>

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


Skin protection

At processing (recommended): Wear suitable protective clothing.

Recommendation:

Glove material: nitrile rubber (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 vapors. Do not breathe dust.

9. Physical and chemical properties

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance:</td>
<td>Form: solid</td>
</tr>
<tr>
<td></td>
<td>Color: varying</td>
</tr>
<tr>
<td>Odor:</td>
<td>odorless</td>
</tr>
<tr>
<td>Odor threshold:</td>
<td>no data available</td>
</tr>
<tr>
<td>pH value:</td>
<td>no data available</td>
</tr>
<tr>
<td>Melting point/freezing point:</td>
<td>no data available</td>
</tr>
<tr>
<td>Initial boiling point and boiling range:</td>
<td>no data available</td>
</tr>
<tr>
<td>Flash point/flash point range:</td>
<td>no data available</td>
</tr>
<tr>
<td>Evaporation rate:</td>
<td>no data available</td>
</tr>
<tr>
<td>Flammability:</td>
<td>This material is combustible, but will not ignite readily.</td>
</tr>
<tr>
<td>Explosion limits:</td>
<td>no data available</td>
</tr>
<tr>
<td>Vapor pressure:</td>
<td>no data available</td>
</tr>
<tr>
<td>Vapor density:</td>
<td>no data available</td>
</tr>
<tr>
<td>Density:</td>
<td>no data available</td>
</tr>
<tr>
<td>Water solubility:</td>
<td>insoluble</td>
</tr>
<tr>
<td>Partition coefficient:</td>
<td>n-octanol/water: no data available</td>
</tr>
<tr>
<td>Auto-ignition temperature:</td>
<td>no data available</td>
</tr>
<tr>
<td>Thermal decomposition:</td>
<td>no data available</td>
</tr>
<tr>
<td>Additional information:</td>
<td>no data available</td>
</tr>
</tbody>
</table>

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:
In case of fire may be liberated: Caprolactam, Hydrogen fluoride, Carbonyl difluoride, Tetrafluoroethylene, Hexafluoropropylene, Perfluoroisobutylene, Silicon dioxide (SiO2), Nitrogen oxides (NOx), Carbon monoxide and carbon dioxide
Thermal decomposition: no data available
11. Toxicological information

Toxicological tests

Toxicological effects:
- Acute toxicity (oral): Lack of data.
- Acute toxicity (dermal): Lack of data.
- Acute toxicity (inhalative): Lack of data.
- Skin corrosion/irritation: Lack of data.
- 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.

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.
- Hazardous decomposition products:
  - Information about Caprolactam: Harmful if swallowed. Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.
  - Information about Hydrogen fluoride: Fatal if swallowed. Fatal in contact with skin. Causes severe skin burns and eye damage. Fatal if inhaled.
  - Information about Hexafluoropropene: Harmful if inhaled. May cause respiratory irritation.
  - Information about Carbonyl difluoride: Fatal if inhaled. Causes severe skin burns and eye damage.

Symptoms

In case of inhalation:
- Inhalation of dust may cause irritation of the respiratory system. Overheating released mist or vapors can irritate the respiratory tracts. 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.

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: Dispose of waste according to applicable legislation.

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 controlled under DOT

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 - Great Britain
Hazchem-Code: -
16. Other information

Hazard rating systems:

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

Department issuing data sheet
Contact person: see section 1: Dept. responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.