Safety data sheet
ULTRAMID 8202CHSBK102

1. Substance/preparation and company identification

Company:
BASF Corporation
3000 Continental Drive - North
Mount Olive, NJ 07828-1234

24 Hour Emergency Response Information
CHEMTREC: (800) 424-9300
BASF HOTLINE: (800) 832-HELP

Chemical family: polyamide
Synonyms: POLYAMIDE RESIN

2. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Content (WW)</th>
<th>Chemical name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1333-96-4</td>
<td>&gt;= 0.1 - &lt;= 2.0 %</td>
<td>carbon black</td>
</tr>
<tr>
<td>7758-02-3</td>
<td>&gt;= 0.1 - &lt;= 1.0 %</td>
<td>Potassium bromide (KBr)</td>
</tr>
<tr>
<td>105-60-2</td>
<td>&lt; 1.0 %</td>
<td>caprolactam</td>
</tr>
<tr>
<td>25038-54-4</td>
<td>&gt; 97.0 - &lt;= 0.0 %</td>
<td>polyamide (PA 6)</td>
</tr>
</tbody>
</table>

Particles, not otherwise specified, respirable

3. Hazard identification

Emergency overview
CAUTION: MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.
INGESTION MAY CAUSE GASTRIC DISTURBANCES.
Use with local exhaust ventilation.
Wear a NIOSH-certified (or equivalent) particulate respirator.
Wear protective clothing.
Eye wash fountains and safety showers must be easily accessible.

Potential health effects
Primary routes of exposure
Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

Acute toxicity:
Contact with molten product may cause thermal burns. The resin in pellet form poses a low hazard.
Information on: Caprolactam
No adverse effects have been reported in the processing and use of polycaprolactam.
Caprolactam monomer may be released during processing.

Irritation:
Corrosive to the skin, eyes and respiratory system. Irritation is possible when the product comes in contact with the skin, respiratory tract or the eyes.

Repeated dose toxicity:
No adverse effects have been reported in the processing and use of the product. No known chronic effects.

H Y D E  S C R A P E R
H A M M E R  H E R O
4. First-aid measures

General advice:
Remove contaminated clothing.

If inhaled:
Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary. Immediate medical attention required.

If on skin:
Wash affected areas thoroughly with soap and water. If irritation develops, seek medical attention.

If in eyes:
In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. If irritation develops, seek medical attention.

If swallowed:
Ingestion is not likely in the available physical form. If ingested, seek medical attention.

5. Fire-fighting measures

Flash point: > 400 °C (Unspecified)
Autoignition: No data available.

Suitable extinguishing media:
water, dry extinguishing media, carbon dioxide, foam

Hazards during fire-fighting:
No particular hazards known.

Protective equipment for fire-fighting:
Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

6. Accidental release measures

Environmental precautions:
This product is not regulated by RCRA. This product is not regulated by CERCLA (Superfund).
7. Handling and storage

Handling
Protection against fire and explosion:
No explosion pooling necessary.

Storage
General advice:
Keep container tightly closed. Avoid deposition of dust.

Storage stability:
Protect against moisture.

8. Exposure controls and personal protection

Components with workplace control parameters

<table>
<thead>
<tr>
<th>Carbon Black</th>
<th>OSHA</th>
<th>PEL  5.6 mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ACGIH</td>
<td>TWA value 3.5 mg/m³</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Caprolactam</th>
<th>ACGIH</th>
<th>TWA value 5 mg/m³; Vapor and aerosol, inhalable fraction</th>
</tr>
</thead>
</table>

Particles, not otherwise specified, respirable

<table>
<thead>
<tr>
<th>OSHA</th>
<th>PEL 5 mg/m³</th>
<th>Respirable fraction</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>TWA value 3 mg/m³</td>
<td>Respirable fraction</td>
</tr>
</tbody>
</table>

Advice on system design:
Provide local exhaust ventilation to control dusts/vapours.

Personal protective equipment

Respiratory protection:
Wear a NIOSH-certified (or equivalent) particulate respirator. Wear respiratory protection if ventilation is inadequate. Do not exceed the maximum use concentration for the respirator facemask/canister combination. Wear a NIOSH-certified (or equivalent) organic vapor/particulate respirator.

Hand protection:
Wear gloves to prevent contact during mechanical processing and/or hot melt conditions.

Eye protection:
Tightly fitting safety goggles (chemical goggles).

General safety and hygiene measures:
Wear protective clothing to prevent contact during mechanical processing and/or hot melt conditions. Avoid inhalation of dust. Wash soiled clothing immediately.

9. Physical and chemical properties

Form: pellets
Colour: odourless
Colour: black
10. Stability and reactivity

Conditions to avoid:
Avoid prolonged exposure to extreme heat.

Substances to avoid:
strong oxidizing agents, acids, bases

Hazardous reactions:
The product is chemically stable.

Decomposition products:
Possible thermal decomposition products:
hydrogen cyanide, carbon monoxide, ammonia

Thermal decomposition:
> 300 °C
May decompose if overheated and/or subjected to prolonged heating.

Corrosion to metals:
No corrosive effect on metal.

11. Toxicological information

12. Ecological information

13. Disposal considerations

Waste disposal of substance:
Inherate in a licensed facility.
Do not discharge substance/product into sewer system.

Contaminated packaging:
Dispose of in accordance with national, state and local regulations.

14. Transport Information

Reference Bill of Lading

15. Regulatory information

Federal Regulations
Registration status:
TSCA, US released / listed
Safety data sheet
ULTRAMID 8202CHSBK102

16. Other information

HMIS III rating
Health: 0 Flammability: 1 Physical hazard: 0

HMIS uses a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates high hazard.

Local contact information
Tech Desk
1-800-527-8324

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END OF DATA SHEET
MATERIAL SAFETY DATA SHEET
May be used to comply with OSHA’s Hazard Communication Standard, 29 CFR 1910.1200.
Standard must be consulted for specific requirements.

IDENTITY (As Used on Label and List)   NOTE: Blank spaces are not permitted. If any item is not applicable, or no
All Grades and colors.   information is available, the space must be marked to indicate that.

SECTION I
Manufacturer’s Name:   Emergency Phone Number:
AlphaGary (Canada) Limited  905 562 5735
Address (Number, Street, City, State & Zip Code):   Telephone Number for Information:
5 Pinelands Ave., Stoney Creek,  905 562 5735
Ontario, Canada L8E 3A4.
Date Prepared: January 14, 2009 (supersedes all previous issues)
Signature of Preparer (Optional)

SECTION II – Hazardous Ingredients/Identity Information

<table>
<thead>
<tr>
<th>Hazardous Composition</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>Other Limits Recommended</th>
<th>% Optional</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Hazardous Chemicals Present</td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

SECTION III – Physical/Chemical Characteristics

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Pressure (mm Hg.)</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Density (AIR = 1)</td>
<td>N/A</td>
</tr>
<tr>
<td>Specific Gravity (H₂O = 1)</td>
<td>0.88 – 0.92</td>
</tr>
<tr>
<td>Melting Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>(Butyl Acetate = 1) N/A</td>
</tr>
</tbody>
</table>

Solubility in Water
N/A
Appearance and Odor
Cylindrical Pellets Approximately 1/8", Almost odourless.

SECTION IV – Fire and Explosion Hazard Data

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Point (Method Used)</td>
<td>Above 230 C</td>
</tr>
<tr>
<td>Flammable Limits</td>
<td>N/A</td>
</tr>
<tr>
<td>LEL</td>
<td>N/A</td>
</tr>
<tr>
<td>UEL</td>
<td>N/A</td>
</tr>
<tr>
<td>Extinguishing Media</td>
<td>Water spray, Water fog, CO₂, Dry chemicals</td>
</tr>
<tr>
<td>Special Fire Fighting Procedures</td>
<td>Wear self-contained breathing apparatus to prevent the inhalation of combustion gases</td>
</tr>
<tr>
<td>Unusual Fire and Explosion Hazards</td>
<td>Will burn fiercely with evolution of dense smoke and fumes including CO and hydrocarbons.</td>
</tr>
</tbody>
</table>

1
SECTION V - Reactivity Data

<table>
<thead>
<tr>
<th>Stability</th>
<th>Unstable [ ]</th>
<th>Conditions to Avoid</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Stable [X]</td>
<td>High temperatures above 230 C</td>
</tr>
</tbody>
</table>

Incompatibility *(Materials to Avoid)*
- Not Applicable

Hazardous Decomposition or Byproducts
- CO, CO₂, and small aromatic and aliphatic hydrocarbons

Hazardous Polymerization
- May Occur [ ]
- Conditions to Avoid
- Will Not Occur [X]
- Not Applicable

SECTION VI - Health Hazard Data

Route(s) of Entry:
- Inhalation?
- Skin?
- Ingestion?

None

Health Hazards *(Acute and Chronic)*
- Not Established
- Process Vapors may produce eye and throat irritation.

Carcinogenicity:
- NTP?
- IARC Monographs?
- OSHA Regulated?

None

Signs and Symptoms of Exposure
- None known

Medical Conditions Generally Aggravated by Exposure
- None Known

Emergency and First Aid Procedures
- If irritation persists, remove affected individual from the area and call a physician.

SECTION VII - Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled
- Sweep, shovel, or vacuum into containers for re-use or disposal.

Waste Disposal Method
- Sanitary landfill or incineration in accordance with Federal Regulations (40CFR 261)

Precautions to be Taken in Handling and Storing
- Wear safety glasses. Rubber gloves should be worn when cleaning condensate from exhaust hoods, etc. Do not store near flame or heat

Other Precautions
- Ventilate process vapors

SECTION VIII - Control Measures

Respiratory Protection *(Specify Type)*
- Air pack necessary if material overheats and decomposes.

Ventilation
- * Local Exhaust: N/A
- If needed to control vapors at elevated temp. Special
- * Mechanical (General): Other
- To provide ventilation equal to outdoors N/A

Protective Gloves
- Necessary to handle hot material

Eye Protection
- Safety glasses

Other Protective Clothing or Equipment
- Rubber gloves for cleaning condensate from exhaust hoods

Work/Hygienic Practices
- Normal hygiene, housekeeping, and safety practices should be followed.
SECTION IX -- REGULATORY INFORMATION

The components of this product appear in the Toxic Substances Control Act (TSCA) Chemical Substances Inventory and are available for commercial use. All Components of this product are listed on the Canadian Domestic Substance List, (DSL).

SECTION 313 SUPPLIER NOTIFICATION

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right to Know Act of 1986 and of 40 CFR 372.

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Chemical Name</th>
<th>Percent by Weight</th>
</tr>
</thead>
</table>

No Section 313 Listed Chemicals are present above their De Minimis concentrations.

This information must be included in all Material Safety Data Sheets that are copied and distributed for this material.

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MATERIAL SAFETY DATA SHEET

PRODUCT NAME AND NUMBER
12935 PEC Black

COMPANY NAME
G & F Industries, Inc.

Section I Manufacturer name and address
APPROVED COLOR, LLC
PO Box 413, 101 Adams Hill Road
Greenville, NJ 07038

Emergency Number: 603-878-1470
Information Number: 603-878-1470
Date prepared:

Section II Hazardous Ingredients/Identity Information

<table>
<thead>
<tr>
<th>Hazardous Components</th>
<th>Cas#</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon Black</td>
<td>1333-86-4</td>
<td>3.5 mg/m³</td>
<td>3.5 mg/m³</td>
</tr>
</tbody>
</table>

Section III Physical/Chemical Characteristics

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>N/A</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Insoluble</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>N/A</td>
</tr>
<tr>
<td>Melting Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>-0-</td>
</tr>
<tr>
<td>Appearance and Odor</td>
<td></td>
</tr>
</tbody>
</table>

Section IV Fire and Explosion Hazard

Flashpoint: N/A
Flammable Limits: N/A LEL -UEL-
Extinguishing Media: Water with fog or mist nozzle; CO2; or dry chemical or foam
Special Fire Procedure: Wear self-contained breathing apparatus and full protective equipment as needed for personal safety.
Unusual Fire Hazards: Improper handling may lead to dust cloud formation which may Be an explosion hazard.

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Section V Reactivity Data

Chemical Stability: Stable
Conditions to Avoid: None
Incompatible Materials: Contact with strong acids
Decomposition Products: May emit irritating products
Hazardous Polymerization: None
Polymerization to Avoid: None

Section VI Health Hazard Data

Entry Routes: Inhalation: Avoid breathing fumes from molten products
Skin: N/A
Ingestion: N/A
Health Hazards: N/A
Carcinogenicity: NTP: IARC Monographs: OSHA Regulated: Yes
First Aid: In case of contact, flush eyes immediately with water for at least 15 minutes. Wash skin with water and soap. If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth to mouth. If breathing is difficult, give oxygen. If swallowed, get medical attention immediately. In each case, medical attention is advised.

Section VII Precautions for Safe Use and Handling

Do not breathe dust. Use respiratory devices and personal protective equipment required by OSHA 29 CFR 1910. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during and after application unless air monitoring demonstrated vapor/mist levels are below acceptable limits. Follow respirator manufacturer’s instructions for respirator use. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling.
Waste disposal method: Dispose of in accordance with Federal, State, and Local regulations.
Storage: Store in a moderately cool, dry, well ventilated area. Avoid direct heat.

Section VIII Special Protection

Respiratory Protection: Regulations
Ventilation: Normal Handling and Storing of Thermoplastics
Special: NIOSH Approved Respirator
Mechanical Exhaust: Adequate Ventilation Must Be Provided
Local Exhaust: Yes
Protective Gloves: Yes
Eye Protection: Yes
Other: Impervious Goggles

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Material Safety Data Sheet

5000 Series

IDENTITY (As Used on Label and List)
POLYPROPYLENE RANDOM COPOLYMER

Section I
CAS NO. 9003-07-0
Manufacturer's Name
PINNACLE POLYMERS
Address (Number, Street, City, State, and ZIP Code)
P.O. Drawer E
One Pinnacle Avenue
Garyville, LA 70051

Emergency Telephone Number
985-535-2983

Telephone Number for Information
985-535-1016

Data Prepared
1/1/2005

Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity: Common Name(s))

OSHA PEL ACGIH TLV Other Limits % (optional)
None

SARA Title III Information: This product contains no substances subject to the reporting or planning requirements of SARA Title III.

Section III - Physical/Chemical Characteristics

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point</td>
<td>NA</td>
</tr>
<tr>
<td>Specific Gravity (H₂O = 1)</td>
<td>0.00 to 0.91</td>
</tr>
<tr>
<td>Vapor Pressure (mm Hg)</td>
<td>NA</td>
</tr>
<tr>
<td>Melting Point</td>
<td>°C</td>
</tr>
<tr>
<td>150-170</td>
<td></td>
</tr>
<tr>
<td>Vapor Density (Air = 1)</td>
<td>NA</td>
</tr>
<tr>
<td>Evaporation Rate (Butyl Acetate = 1)</td>
<td>NA</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Negligible</td>
</tr>
<tr>
<td>Appearance and Color</td>
<td>Translucent pellets having a slightly paraffinic odor</td>
</tr>
</tbody>
</table>

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)
Autolivation Temperature, 570 °C

Flammable Limits
LEL
GEL

Extinguishing Media
Water, dry chemical or CO₂ extinguisher.

Special Fire Fighting Procedures
No special fire fighting procedures required.

Flash Fire and Explosion Hazards
No unusual fire or explosion hazards, slightly combustible

(Reproduce locally)

NA - Not applicable