



# Safety Data Sheet

Material Name: Thermoplastic Powder

SDS ID: SDS-81551-100

## Section 1 - PRODUCT AND COMPANY IDENTIFICATION

### Material Name

Thermoplastic Powder

### Trade Names

Part Number: TROY Group M401\_M425 MFP MICR TONER SECURE HY- Cartridge

### Manufacturer Information

TROY Group Inc.

Three Bryan Drive

Wheeling, WV 26003

USA

Phone: (304) 232-0899

Emergency Phone #: CHEMTREC (800) 424-9300, CHEMTREC International (703) 527-3887

## Section 2 - HAZARDS IDENTIFICATION

### Classification in accordance with paragraph (d) of 29 CFR 1910.1200.

None needed according to classification criteria

### GHS Label Elements

#### Symbol(s)

None needed according to classification criteria

#### Signal Word

None needed according to classification criteria

#### Hazard Statement(s)

None needed according to classification criteria

#### Precautionary Statement(s)

#### Prevention

None needed according to classification criteria

#### Response

None needed according to classification criteria

#### Storage

None needed according to classification criteria

#### Disposal

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

## Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

| CAS         | Component Name               | Percent |
|-------------|------------------------------|---------|
| Proprietary | Polyester Polyurethane Resin | 40-70   |
| 1317-61-9   | Ferric oxide black           | 15-40   |
| Proprietary | Polymer                      | 3-7     |
| 7631-86-9   | Silica, amorphous            | <2      |

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**Section 4 - FIRST AID MEASURES**

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**Inhalation**

If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. Get medical advice/attention if you feel unwell.

**Skin**

Wash affected area with soap or mild detergent and large amounts of water until no evidence of chemical remains (approximately 15-20 minutes). Get medical attention, if needed. Thoroughly clean and dry contaminated clothing before reuse.

**Eyes**

Flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Ingestion**

If a large amount is swallowed, get medical attention.

**Most Important Symptoms/Effects****Acute**

May cause mechanical irritation.

**Delayed**

No information on significant adverse effects.

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**Section 5 - FIRE FIGHTING MEASURES**

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**Extinguishing Media****Suitable Extinguishing Media**

Use carbon dioxide, regular dry chemical, regular foam or water.

**Unsuitable Extinguishing Media**

None known

**Special Hazards Arising from the Chemical**

Combustible Dust. Dust/air mixtures may ignite or explode. 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.

**Hazardous Combustion Products**

carbon monoxide, carbon dioxide

**Fire Fighting Measures**

Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products.

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**Section 6 - ACCIDENTAL RELEASE MEASURES**

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**Personal Precautions, Protective Equipment and Emergency Procedures**

Wear suitable protective clothing and eye/face protection.



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### Methods and Materials for Containment and Cleaning Up

Minimize dust generation and accumulation. Clean up residue with a high-efficiency particulate filter vacuum. Collect spilled material in appropriate container for disposal.

### Environmental Precautions

Avoid release to the environment. Keep out of water supplies and sewers.

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## Section 7 - HANDLING AND STORAGE

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### Precautions for Safe Handling

Keep out of reach of children. Avoid breathing dust. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Wash exposed areas thoroughly with soap and water after skin contact and before eating, drinking, using tobacco products, or restrooms.

### Conditions for Safe Storage, Including any Incompatibilities

None needed according to classification criteria

Keep out of reach of children. Store at room temperature. Keep container tightly closed. Keep dry. Keep separated from incompatible substances. Store in area of low relative humidity. Keep away from heat and ignition sources.

### Incompatible Materials

strong oxidizing materials

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## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

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### Component Exposure Limits

|                   |  |
|-------------------|--|
| Silica, amorphous | 7631-86-9  |
| NIOSH:            | 6 mg/m <sup>3</sup> TWA  |
|                   | 3000 mg/m <sup>3</sup> IDLH                                      |
| OSHA (US):        | 20 mppcf TWA; ((80)/(% SiO <sub>2</sub> ) mg/m <sup>3</sup> TWA) |

### Biological limit value

There are no biological limit values for any of this product's components.

### Engineering Controls

Use only in well ventilated areas. Ensure compliance with applicable exposure limits.

### Individual Protection Measures, such as Personal Protective Equipment

#### Eye/face protection

Eye protection not required under normal conditions.

#### Skin Protection

Protective clothing is not required under normal conditions.

#### Respiratory Protection

No respirator is required under normal conditions of use.

#### Glove Recommendations

Protective gloves are not required under normal conditions.

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### Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

|                              |                |   |                |
|------------------------------|----------------|---|----------------|
| <b>Appearance</b>            | black powder   | <b>Physical State</b>                         | solid          |
| <b>Odor</b>                  | Slight         | <b>Color</b>                                  | black          |
| <b>Odor Threshold</b>        | Not available  | <b>pH</b>                                     | Not available  |
| <b>Melting Point</b>         | Not available  | <b>Boiling Point</b>                          | Not applicable |
| <b>Freezing point</b>        | Not available  | <b>Evaporation Rate</b>                       | Not available  |
| <b>Boiling Point Range</b>   | Not available  | <b>Flammability (solid, gas)</b>              | Not available  |
| <b>Autoignition</b>          | Not applicable | <b>Flash Point</b>                            | Not available  |
| <b>Lower Explosive Limit</b> | Not available  | <b>Decomposition</b>                          | Not available  |
| <b>Upper Explosive Limit</b> | Not available  | <b>Vapor Pressure</b>                         | Not available  |
| <b>Vapor Density (air=1)</b> | Not available  | <b>Specific Gravity (water=1)</b>             | Not available  |
| <b>Water Solubility</b>      | insoluble      | <b>Partition coefficient: n-octanol/water</b> | Not available  |
| <b>Viscosity</b>             | Not available  | <b>Solubility (Other)</b>                     | Not available  |
| <b>Density</b>               | Not available  |   |                |

### Section 10 - STABILITY AND REACTIVITY

#### Reactivity

No reactivity hazard is expected.

#### Chemical Stability

Stable at normal temperatures and pressure.

#### Possibility of Hazardous Reactions

Will not polymerize.

#### Conditions to Avoid

Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials. Avoid direct sunlight. Exposure to light.

#### Incompatible Materials

None known

#### Hazardous decomposition products

carbon monoxide, carbon dioxide.

### Section 11 - TOXICOLOGICAL INFORMATION

#### Acute and Chronic Toxicity



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### Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

Ferric oxide black (1317-61-9)  
Oral LD50 Rat >10000 mg/kg  
Silica, amorphous (7631-86-9)  
Oral LD50 Rat >5000 mg/kg  
Dermal LD50 Rabbit >2000 mg/kg  
Inhalation LC50 Rat >2.2 mg/L 1 h

### Immediate Effects

No information on significant adverse effects.

### Delayed Effects

No information on significant adverse effects.

### Irritation/Corrosivity Data

May cause mechanical irritation.

### Respiratory Sensitization

No data available.

### Dermal Sensitization

No data available.

### Component Carcinogenicity

|                    |   |
|--------------------|---|
| Ferric oxide black | 1317-61-9   |
| DFG:               | Category 3B (could be carcinogenic for man)                           |
| Silica, amorphous  | 7631-86-9   |
| IARC:              | Monograph 68 [1997]; Supplement 7 [1987] (Group 3 (not classifiable)) |

### Germ Cell Mutagenicity

No data available.

### Reproductive Toxicity

No data available.

### Specific Target Organ Toxicity - Single Exposure

No data available.

### Specific Target Organ Toxicity - Repeated Exposure

No data available.

### Aspiration hazard

No data available.

### Medical Conditions Aggravated by Exposure

No data available.

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## Section 12 - ECOLOGICAL INFORMATION

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### Ecotoxicity



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No information available for the product.

### Component Analysis - Aquatic Toxicity

|                   |   |
|-------------------|---|
| Silica, amorphous | 7631-86-9   |
| Fish:             | LC50 96 h Brachydanio rerio 5000 mg/L [static]            |
| Algae:            | EC50 72 h Pseudokirchneriella subcapitata 440 mg/L IUCLID |
| Invertebrate:     | EC50 48 h Ceriodaphnia dubia 7600 mg/L IUCLID             |

### Persistence and Degradability

No information available for the product.

### Bioaccumulative Potential

No information available for the product.

### Bioconcentration

No information available for the product.

### Other Toxicity

No additional information is available.

## Section 13 - DISPOSAL CONSIDERATIONS

### Disposal Methods

Dispose in accordance with all applicable regulations.

## Section 14 - TRANSPORT INFORMATION

### US DOT Information:

UN/NA #: Not Regulated

### IATA Information:

UN#: Not Regulated

### TDG Information:

UN#: Not Regulated

## Section 15 - REGULATORY INFORMATION

### U.S. Federal Regulations

None of this products components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

### U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

|           |     |    |    |    |    |    |
|-----------|-----|----|----|----|----|----|
| Component | CAS | CA | MA | MN | NJ | PA |
|-----------|-----|----|----|----|----|----|



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|-------------------|-----------|-----|-----|-----|-----|-----|
| Silica, amorphous | 7631-86-9 | Yes | Yes | Yes | Yes | Yes |
|-------------------|-----------|-----|-----|-----|-----|-----|

## Not listed under California Proposition 65

### Canadian WHMIS Ingredient Disclosure List (IDL)

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL

|                   |           |
|-------------------|-----------|
| Silica, amorphous | 7631-86-9 |
|                   | 1 %       |

### Component Analysis - Inventory

Polyester Polyurethane Resin (Proprietary)

| US | CA | EU | AU | PH | JP - ENCS | JP - ISHL | KR - KECI/KECL | KR - TCCA | CN  | NZ | MX |
|----|----|----|----|----|-----------|-----------|----------------|-----------|-----|----|----|
| No | No | No | No | No | Yes       | No        | No             | No        | Yes | No | No |

Ferric oxide black (1317-61-9)

| US  | CA  | EU  | AU  | PH  | JP - ENCS | JP - ISHL | KR - KECI/KECL | KR - TCCA | CN  | NZ  | MX  |
|-----|-----|-----|-----|-----|-----------|-----------|----------------|-----------|-----|-----|-----|
| Yes | DSL | EIN | Yes | Yes | Yes       | No        | Yes            | No        | Yes | Yes | Yes |

Polymer (Proprietary)

| US  | CA  | EU | AU  | PH  | JP - ENCS | JP - ISHL | KR - KECI/KECL | KR - TCCA | CN  | NZ  | MX  |
|-----|-----|----|-----|-----|-----------|-----------|----------------|-----------|-----|-----|-----|
| Yes | DSL | No | Yes | Yes | Yes       | No        | Yes            | No        | Yes | Yes | Yes |

Silica, amorphous (7631-86-9)

| US  | CA  | EU  | AU  | PH  | JP - ENCS | JP - ISHL | KR - KECI/KECL | KR - TCCA | CN  | NZ  | MX  |
|-----|-----|-----|-----|-----|-----------|-----------|----------------|-----------|-----|-----|-----|
| Yes | DSL | EIN | Yes | Yes | Yes       | No        | Yes            | No        | Yes | Yes | Yes |

## Section 16 - OTHER INFORMATION

### Summary of Changes

New SDS: 03/30/2015

### Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products



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Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States.

### **Other Information**

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