

## Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 02/21/2013

Version 14

Reviewed on 06/05/2012

### 1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**

- **Trade name: Plastic Media:**

# 1000, # 1050, # 1050 ND, # 2000, # 2000 ND, # 2050, # 3270, # 4000 M2, # 4000 M4, D10, D15, HR90, HR92, HR100, PFC-S, PLC, PMC, PPP, RKB/W-U, RKD-U, RKF-U, RKM-U, RPEU, TPUSA 1070/2, WPBC, WPPP

- **Application of the substance / the preparation** Grinding media for vibro-finishing

- **Details of the supplier of the safety data sheet**

- **Manufacturer/Supplier:**

Rösler Metal Finishing USA, L.L.C.  
1551 Denso Road  
Battle Creek, MI 49015  
USA

Phone: +1(269)441-3000  
Fax: +1(269)441-3001  
info@roslerusa.com  
www.roslerusa.com

- **Emergency telephone number:**

Emergency Number (24h emergency contact): CHEMTREC Phone: (800)-424-9300

### 2 Hazards identification

- **Information concerning particular hazards for human and environment:**

The product does not have to be labelled due to the calculation procedure of international guidelines.

- **Classification system:**

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

- **Label elements**

- **Labelling according to EU guidelines:**

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations according to directives on hazardous materials.

- **Classification system:**

- **NFPA ratings (scale 0 - 4)**



Health = 0  
Fire = 0  
Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**



Health = 0  
Fire = 0  
Reactivity = 0

- **Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Description:** Inorganic abrasive material, bonded in polyester-resin, completely cured.

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**Trade name: Plastic Media:**

**# 1000, # 1050, # 1050 ND, # 2000, # 2000 ND, # 2050, # 3270, # 4000 M2, # 4000 M4, D10, D15, HR90, HR92, HR100, PFC-S, PLC, PMC, PPP, RKB/W-U, RKD-U, RKF-U, RKM-U, RPEU, TPUSA 1070/2, WPBC, WPPP**

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(Contd. of page 1)

- **Dangerous components:** Void
  - **Additional information:** None of the components is present in its original form, but as bonded material.
- 

### **4 First aid measures**

- **Description of first aid measures**
  - **General information:** No special measures required.
  - **After inhalation:** Supply fresh air; consult doctor in case of complaints.
  - **After skin contact:** Generally the product does not irritate the skin.
  - **After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
  - **After swallowing:** If symptoms persist consult doctor.
  - **Information for doctor:**
  - **Most important symptoms and effects, both acute and delayed** No further relevant information available.
  - **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.
- 

### **5 Firefighting measures**

- **Extinguishing media**
  - **Suitable extinguishing agents:**  
Product will not burn.  
Use fire fighting measures that suit the environment.
  - **Special hazards arising from the substance or mixture** No further relevant information available.
  - **Advice for firefighters**
  - **Protective equipment:** Wear self-contained respiratory protective device.
  - **Additional information**  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
- 

### **6 Accidental release measures**

- **Personal precautions, protective equipment and emergency procedures** Not required.
  - **Environmental precautions:** No special measures required.
  - **Methods and material for containment and cleaning up:**  
Pick up mechanically.  
Send for recovery or disposal in suitable receptacles.
  - **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.
- 

### **7 Handling and storage**

- **Handling:**
  - **Precautions for safe handling**  
Prevent formation of dust.  
No special precautions are necessary if used correctly.
  - **Information about protection against explosions and fires:** No special measures required.
  - **Conditions for safe storage, including any incompatibilities**
  - **Storage:**
  - **Requirements to be met by storerooms and receptacles:** No special requirements.
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**Trade name: Plastic Media:**

**# 1000, # 1050, # 1050 ND, # 2000, # 2000 ND, # 2050, # 3270, # 4000 M2, # 4000 M4, D10, D15, HR90, HR92, HR100, PFC-S, PLC, PMC, PPP, RKB/W-U, RKD-U, RKF-U, RKM-U, RPEU, TPUSA 1070/2, WPBC, WPPP**

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- **Information about storage in one common storage facility:** Not required.
  - **Further information about storage conditions:**  
Store in dry conditions.  
The product is unlimited storable.
  - **Specific end use(s)** No further relevant information available.
- 

### **8 Exposure controls/personal protection**

- **Additional information about design of technical systems:** No further data; see item 7.
  - **Control parameters**
  - **Components with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
  - **Additional information:** The lists that were valid during the creation were used as basis.
  - **Exposure controls**
  - **Personal protective equipment:**
  - **General protective and hygienic measures:** Wash hands before breaks and at the end of work.
  - **Breathing equipment:** Not necessary in case of intended use.
  - **Protection of hands:** Not required.
  - **Eye protection:** Not required.
  - **Body protection:** Protective work clothing
- 

### **9 Physical and chemical properties**

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
  - Form:** Solid in various forms
  - Color:** Different according to coloring
  - Odor:** Odorless
- **pH-value at 20 °C (68°F):** Not applicable
- **pH-Value; 5 g/l at 20 °C (68°F):** Not applicable
- **Change in condition**
  - Melting point/Melting range:** Undetermined.
  - Boiling point/Boiling range:** Undetermined.
- **Flash point:** Not applicable.
- **Auto igniting:** Product is not selfigniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Density at 20 °C (68°F) at 20 °C (68 °F):** ~ 1.5 - 1.8 g/cm<sup>3</sup> (~ 12.518 - 15.02 lbs/gal)
- **Solubility in / Miscibility with Water:** Insoluble.

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**Trade name: Plastic Media:**

**# 1000, # 1050, # 1050 ND, # 2000, # 2000 ND, # 2050, # 3270, # 4000 M2, # 4000 M4, D10, D15, HR90, HR92, HR100, PFC-S, PLC, PMC, PPP, RKB/W-U, RKD-U, RKF-U, RKM-U, RPEU, TPUSA 1070/2, WPBC, WPPP**

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**- Viscosity:**

**Dynamic at 22 °C (72°F):** Not applicable

**- Other information**

No further relevant information available.

### 10 Stability and reactivity

**- Reactivity**

**- Chemical stability**

**- Thermal decomposition / conditions to be avoided:** No decomposition if used and stored according to specifications.

**- Possibility of hazardous reactions** No dangerous reactions in case of intended use.

**- Conditions to avoid** No further relevant information available.

**- Incompatible materials:** No further relevant information available.

**- Hazardous decomposition products:** None in case of intended use and storage.

### 11 Toxicological information

**- Information on toxicological effects**

**- Acute toxicity:**

**- Primary irritant effect:**

**- on the skin:** No irritant effect.

**- on the eye:** No irritating effect.

**- Sensitization:** No sensitizing effects known.

**- Additional toxicological information:**

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

**- Carcinogenic categories**

**- IARC (International Agency for Research on Cancer)**

14808-60-7	Quartz (SiO <sub>2</sub> )	1
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**- NTP (National Toxicology Program)**

14808-60-7	Quartz (SiO <sub>2</sub> )	K
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### 12 Ecological information

**- Toxicity**

**- Aquatic toxicity:** No further relevant information available.

**- Persistence and degradability** No further relevant information available.

**- Behavior in environmental systems:**

**- Bioaccumulative potential** No further relevant information available.

**- Mobility in soil** No further relevant information available.

**- Additional ecological information:**

**- General notes:** Avoid transfer into the environment.

**- Results of PBT and vPvB assessment**

**- PBT:** Not applicable.

**- vPvB:** Not applicable.

**- Other adverse effects** No further relevant information available.

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# 1000, # 1050, # 1050 ND, # 2000, # 2000 ND, # 2050, # 3270, # 4000 M2, # 4000 M4, D10, D15, HR90, HR92, HR100, PFC-S, PLC, PMC, PPP, RKB/W-U, RKD-U, RKF-U, RKM-U, RPEU, TPUSA 1070/2, WPBC, WPPP

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**- Cancerogenity categories**

**- EPA (Environmental Protection Agency)**

None of the ingredients is listed.

**- TLV (Threshold Limit Value established by ACGIH)**

14808-60-7 | Quartz (SiO<sub>2</sub>)

A2

**- NIOSH-Ca (National Institute for Occupational Safety and Health)**

14808-60-7 | Quartz (SiO<sub>2</sub>)

**- OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

**- Product related hazard informations:**

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations according to directives on hazardous materials.

**- Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee or warranty for any specific product features and shall not establish a legally valid contractual relationship. The user is responsible for determining whether the product is suitable for its intended conditions of use.

**- Department issuing MSDS:** Department of Product Control

**- Contact:** MSDS Coordinator

## Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 11/19/2012

Version 9

Reviewed on 06/11/2012

### 1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**

- **Trade name: Plastic Media:**

# 1025; # 6000, # 6100, D30, PFC-A, PFC-AF, RKE-U, RKS-U, WPHC, WPRC, TPUSA 1069/6

- **Application of the substance / the preparation** Grinding media for vibro-finishing

- **Details of the supplier of the safety data sheet**

- **Manufacturer/Supplier:**

Rösler Metal Finishing USA, L.L.C.  
1551 Denso Road  
Battle Creek, MI 49015  
USA

Phone: +1(269)441-3000  
Fax: +1(269)441-3001  
info@roslerusa.com  
www.roslerusa.com

- **Emergency telephone number:**

Emergency Number (24h emergency contact): CHEMTREC Phone: (800)-424-9300

### 2 Hazards identification

- **Information concerning particular hazards for human and environment:**

The product does not have to be labelled due to the calculation procedure of international guidelines.

- **Classification system:**

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

- **Label elements**

- **Labelling according to EU guidelines:**

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations according to directives on hazardous materials.

- **Classification system:**

- **NFPA ratings (scale 0 - 4)**



Health = 0  
Fire = 0  
Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**



Health = 0  
Fire = 0  
Reactivity = 0

- **Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Description:** Inorganic abrasive material, bonded in polyester-resin, completely cured.

- **Dangerous components:** Void

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## Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 11/19/2012

Version 9

Reviewed on 06/11/2012

Trade name: **Plastic Media:**

**# 1025; # 6000, # 6100, D30, PFC-A, PFC-AF, RKE-U, RKS-U, WPHC, WPRC, TPUSA 1069/6**

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- **Additional information:** None of the components is present in its original form, but as bonded material.

### 4 First aid measures

- **Description of first aid measures**

- **General information:** No special measures required.

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.

- **After skin contact:** Generally the product does not irritate the skin.

- **After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- **After swallowing:** If symptoms persist consult doctor.

- **Information for doctor:**

- **Most important symptoms and effects, both acute and delayed** No further relevant information available.

- **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

### 5 Firefighting measures

- **Extinguishing media**

- **Suitable extinguishing agents:**

Product will not burn.

Use fire fighting measures that suit the environment.

- **Special hazards arising from the substance or mixture** No further relevant information available.

- **Advice for firefighters**

- **Protective equipment:** Wear self-contained respiratory protective device.

- **Additional information**

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.

- **Environmental precautions:** No special measures required.

- **Methods and material for containment and cleaning up:**

Pick up mechanically.

Send for recovery or disposal in suitable receptacles.

- **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### 7 Handling and storage

- **Handling:**

- **Precautions for safe handling**

Prevent formation of dust.

No special precautions are necessary if used correctly.

- **Information about protection against explosions and fires:** No special measures required.

- **Conditions for safe storage, including any incompatibilities**

- **Storage:**

- **Requirements to be met by storerooms and receptacles:** No special requirements.

- **Information about storage in one common storage facility:** Not required.

- **Further information about storage conditions:**

Store in dry conditions.

The product is unlimited storable.

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## Material Safety Data Sheet

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Reviewed on 06/11/2012

Trade name: **Plastic Media:**

**# 1025; # 6000, # 6100, D30, PFC-A, PFC-AF, RKE-U, RKS-U, WPHC, WPRC, TPUSA 1069/6**

(Contd. of page 2)

- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- **Additional information:** The lists that were valid during the creation were used as basis.

- **Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:** Wash hands before breaks and at the end of work.

- **Breathing equipment:** Not necessary in case of intended use.

- **Protection of hands:** Not required.

- **Eye protection:** Not required.

- **Body protection:** Protective work clothing

### 9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

<b>Form:</b>	Solid in various forms
<b>Color:</b>	Different according to coloring
<b>Odor:</b>	Odorless

- **pH-value at 20°C (68°F):** Not applicable

- **pH-Value; 5 g/l at 20°C (68°F):** Not applicable

- **Change in condition**

**Melting point/Melting range:** Undetermined.

**Boiling point/Boiling range:** Undetermined.

- **Flash point:** Not applicable.

- **Auto igniting:** Product is not selfigniting.

- **Danger of explosion:** Product does not present an explosion hazard.

- **Density at 20°C (68°F) at 20°C (68 °F):** ~ 1.5 - 1.8 g/cm<sup>3</sup> (~ 12.518 - 15.02 lbs/gal)

- **Solubility in / Miscibility with**

**Water:** Insoluble.

- **Viscosity:**

**Dynamic at 22°C (72°F):** Not applicable

- **Other information** No further relevant information available.

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## Material Safety Data Sheet

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Trade name: **Plastic Media:**

**# 1025; # 6000, # 6100, D30, PFC-A, PFC-AF, RKE-U, RKS-U, WPHC, WPRC, TPUSA 1069/6**

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### 10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions in case of intended use.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** None in case of intended use and storage.

### 11 Toxicological information

- **Information on toxicological effects**

- **Acute toxicity:**

- **Primary irritant effect:**

- **on the skin:** No irritant effect.

- **on the eye:** No irritating effect.

- **Sensitization:** No sensitizing effects known.

- **Additional toxicological information:**

The product is not subject to classification according to internally approved calculation methods for preparations:  
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

- **Carcinogenic categories**

- <b>IARC (International Agency for Research on Cancer)</b>		
14808-60-7	Quartz (SiO <sub>2</sub> )	1
- <b>NTP (National Toxicology Program)</b>		
14808-60-7	Quartz (SiO <sub>2</sub> )	K

### 12 Ecological information

- **Toxicity**

- **Aquatic toxicity:** No further relevant information available.

- **Persistence and degradability** No further relevant information available.

- **Behavior in environmental systems:**

- **Bioaccumulative potential** No further relevant information available.

- **Mobility in soil** No further relevant information available.

- **Additional ecological information:**

- **General notes:** Avoid transfer into the environment.

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**

- **Recommendation:** Dispose of in accordance with all applicable federal, state and local regulations.

- **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to official regulations.

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Reviewed on 06/11/2012

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**Trade name: Plastic Media:**

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**- Product related hazard informations:**

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations according to directives on hazardous materials.

**- Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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### **16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee or warranty for any specific product features and shall not establish a legally valid contractual relationship. The user is responsible for determining whether the product is suitable for its intended conditions of use.

**- Department issuing MSDS:** Department of Product Control

**- Contact:** MSDS Coordinator

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USA

## Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 03/02/2010

Version 6

Reviewed on 03/02/2010

### 1 Identification of substance

- **Product details**

- **Trade name:** Plastic Media: # 3194

- **Application of the substance / the preparation** Grinding media for vibro-finishing

- **Manufacturer/Supplier:**

Rösler Metal Finishing USA, L.L.C.  
1551 Denso Road  
Battle Creek, MI 49015  
USA

Phone: +1(269)441-3000  
Fax: +1(269)441-3001  
info@roslerusa.com  
www.roslerusa.com

- **Emergency information:**

Emergency Number (24h emergency contact): CHEMTREC Phone: (800)-424-9300

### 2 Composition/Data on components

- **Chemical characterization**

- **Description:** Inorganic abrasive material, bonded in polyester-resin, completely cured.

- **Dangerous components:** Void

- **Additional information:** None of the components is present in its original form, but as bonded material.

### 3 Hazards identification

- **Hazard description:** Not applicable.

- **Information pertaining to particular dangers for man and environment:**

The product does not have to be labelled due to the calculation procedure of international guidelines.

- **Classification system:**

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

- **NFPA ratings (scale 0 - 4)**



Health = 0  
Fire = 0  
Reactivity = 0

- **HMS-ratings (scale 0 - 4)**



Health = 0  
Fire = 0  
Reactivity = 0

### 4 First aid measures

- **General information:** No special measures required.

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.

- **After skin contact:** Generally the product does not irritate the skin.

- **After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- **After swallowing:** If symptoms persist consult doctor.

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USA

## Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 03/02/2010

Version 6

Reviewed on 03/02/2010

Trade name: **Plastic Media: # 3194**

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### 5 Fire fighting measures

**- Suitable extinguishing agents:**

Product will not burn.

Use fire fighting measures that suit the environment.

**- Protective equipment:** Wear self-contained respiratory protective device.

**- Additional information**

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

### 6 Accidental release measures

**- Person-related safety precautions:** Not required.

**- Measures for environmental protection:** No special measures required.

**- Measures for cleaning/collecting:**

Pick up mechanically.

Send for recovery or disposal in suitable receptacles.

### 7 Handling and storage

**- Handling:**

**- Information for safe handling:**

Prevent formation of dust.

No special precautions are necessary if used correctly.

**- Information about protection against explosions and fires:** No special measures required.

**- Storage:**

**- Requirements to be met by storerooms and receptacles:** No special requirements.

**- Information about storage in one common storage facility:** Not required.

**- Further information about storage conditions:**

Store in dry conditions.

The product is unlimited storable.

### 8 Exposure controls and personal protection

**- Additional information about design of technical systems:** No further data; see item 7.

**- Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**- Additional information:** The lists that were valid during the creation were used as basis.

**- Personal protective equipment:**

**- General protective and hygienic measures:** Wash hands before breaks and at the end of work.

**- Breathing equipment:** Not necessary in case of intended use.

**- Protection of hands:** Not required.

**- Eye protection:** Not required.

**- Body protection:** Protective work clothing

### 9 Physical and chemical properties

**- General Information**

**Form:** Solid in various forms

**Color:** Different according to coloring

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## Material Safety Data Sheet

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Printing date 03/02/2010

Version 6

Reviewed on 03/02/2010

Trade name: **Plastic Media: # 3194**

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**Odor:** Characteristic

**- Change in condition**

**Melting point/Melting range:** Undetermined.

**Boiling point/Boiling range:** Undetermined.

**- Flash point:** Not applicable.

**- Auto igniting:** Product is not selfigniting.

**- Danger of explosion:** Product does not present an explosion hazard.

**- Density at 20°C (68°F):** ~ 1.5 - 1.8 g/cm<sup>3</sup>

**- Solubility in / Miscibility with Water:** Insoluble.

**- pH-value:** Not applicable

**- Viscosity:**  
**Dynamic:** Not applicable

### 10 Stability and reactivity

**- Thermal decomposition / conditions to be avoided:** No decomposition if used and stored according to specifications.

**- Dangerous reactions** No dangerous reactions in case of intended use.

**- Dangerous products of decomposition:** None in case of intended use and storage.

### 11 Toxicological information

**- Acute toxicity:**

**- Primary irritant effect:**

**- on the skin:** No irritant effect.

**- on the eye:** No irritating effect.

**- Sensitization:** No sensitizing effects known.

**- Additional toxicological information:**

The product is not subject to classification according to internally approved calculation methods for preparations:  
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

### 12 Ecological information

**- General notes:** Avoid transfer into the environment.

### 13 Disposal considerations

**- Product:**

**- Recommendation:** Dispose of in accordance with all applicable federal, state and local regulations.

**- Uncleaned packagings:**

**- Recommendation:** Disposal must be made according to official regulations.

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USA

## Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 03/02/2010

Version 6

Reviewed on 03/02/2010

Trade name: **Plastic Media: # 3194**

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### 14 Transport information

- DOT regulations:
- Hazard class: -
  
- Land transport ADR/RID (cross-border):
- ADR/RID class: -
  
- Maritime transport IMDG:
- IMDG Class: -
  
- Air transport ICAO-TI and IATA-DGR:
- ICAO/IATA Class: -
  
- Transport/Additional information: Not dangerous according to the above specifications.

### 15 Regulations

- Sara

<b>- Section 355 (extremely hazardous substances):</b>	
None of the ingredient is listed.	
<b>- Section 313 (Specific toxic chemical listings):</b>	
None of the ingredients is listed.	
<b>- TSCA (Toxic Substances Control Act):</b>	
All ingredients are listed.	
<b>- Proposition 65</b>	
<b>- Chemicals known to cause cancer:</b>	
None of the ingredients is listed.	
<b>- Chemicals known to cause reproductive toxicity for females:</b>	
None of the ingredients is listed.	
<b>- Chemicals known to cause reproductive toxicity for males:</b>	
None of the ingredients is listed.	
<b>- Chemicals known to cause developmental toxicity:</b>	
None of the ingredients is listed.	
<b>- Cancerogenity categories</b>	
<b>- EPA (Environmental Protection Agency)</b>	
None of the ingredients is listed.	
<b>- IARC (International Agency for Research on Cancer)</b>	
14808-60-7	Quartz (SiO <sub>2</sub> ) 1
<b>- NTP (National Toxicology Program)</b>	
14808-60-7	Quartz (SiO <sub>2</sub> ) K
<b>- TLV (Threshold Limit Value established by ACGIH)</b>	
14808-60-7	Quartz (SiO <sub>2</sub> ) A2
409-21-2	silicon carbide A4
<b>- NIOSH-Ca (National Institute for Occupational Safety and Health)</b>	
14808-60-7	Quartz (SiO <sub>2</sub> )
<b>- OSHA-Ca (Occupational Safety &amp; Health Administration)</b>	
None of the ingredients is listed.	

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**Trade name: Plastic Media: # 3194**

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**- Product related hazard informations:**

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations according to directives on hazardous materials.

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**16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee or warranty for any specific product features and shall not establish a legally valid contractual relationship. The user is responsible for determining whether the product is suitable for its intended conditions of use.

**- Department issuing MSDS:** Department of Product Control

**- Contact:** MSDS Coordinator

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USA

## Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 03/02/2010

Version 9

Reviewed on 03/02/2010

### 1 Identification of substance

- **Product details**

- **Trade name: Plastic Media:**  
**# 5300, # 5300 S, RKP-U**

- **Application of the substance / the preparation** Grinding media for vibro-finishing

- **Manufacturer/Supplier:**

Rösler Metal Finishing USA, L.L.C.  
1551 Denso Road  
Battle Creek, MI 49015  
USA

Phone: +1(269)441-3000  
Fax: +1(269)441-3001  
info@roslerusa.com  
www.roslerusa.com

- **Emergency information:**

Emergency Number (24h emergency contact): CHEMTREC Phone: (800)-424-9300

### 2 Composition/Data on components

- **Chemical characterization**

- **Description:** Inorganic abrasive material, bonded in polyester-resin, completely cured.

- **Dangerous components:** Void

- **Additional information:** None of the components is present in its original form, but as bonded material.

### 3 Hazards identification

- **Hazard description:** Not applicable.

- **Information pertaining to particular dangers for man and environment:**

The product does not have to be labelled due to the calculation procedure of international guidelines.

- **Classification system:**

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

- **NFPA ratings (scale 0 - 4)**



Health = 0  
Fire = 0  
Reactivity = 0

- **HMS-ratings (scale 0 - 4)**



Health = 0  
Fire = 0  
Reactivity = 0

### 4 First aid measures

- **General information:** No special measures required.

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.

- **After skin contact:** Generally the product does not irritate the skin.

- **After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- **After swallowing:** If symptoms persist consult doctor.

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Trade name: **Plastic Media:**  
**# 5300, # 5300 S, RKP-U**

(Contd. of page 1)

### 5 Fire fighting measures

- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information**  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

### 6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:** No special measures required.
- **Measures for cleaning/collecting:**  
Pick up mechanically.  
Send for recovery or disposal in suitable receptacles.

### 7 Handling and storage

- **Handling:**
- **Information for safe handling:**  
Prevent formation of dust.  
No special precautions are necessary if used correctly.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Store in dry conditions.  
The product is unlimited storable.

### 8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:** Wash hands before breaks and at the end of work.
- **Breathing equipment:** Not necessary in case of intended use.
- **Protection of hands:** Not required.
- **Eye protection:** Not required.
- **Body protection:** Protective work clothing

### 9 Physical and chemical properties

#### - General Information

**Form:** Solid in various forms  
**Color:** Different according to coloring

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Trade name: **Plastic Media:**  
**# 5300, # 5300 S, RKP-U**

(Contd. of page 2)

- Odor:** Characteristic
- **Change in condition**  
**Melting point/Melting range:** Undetermined.  
**Boiling point/Boiling range:** Undetermined.
- **Flash point:** Not applicable.
- **Auto igniting:** Product is not selfigniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Density at 20°C (68 °F):** ~ 1.5 - 1.8 g/cm<sup>3</sup>
- **Solubility in / Miscibility with Water:** Insoluble.
- **pH-value:** Not applicable
- **Viscosity:**  
**Dynamic:** Not applicable

### 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used and stored according to specifications.
- **Dangerous reactions** No dangerous reactions in case of intended use.
- **Dangerous products of decomposition:** None in case of intended use and storage.

### 11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
The product is not subject to classification according to internally approved calculation methods for preparations:  
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

### 12 Ecological information

- **General notes:** Avoid transfer into the environment.

### 13 Disposal considerations

- **Product:**
- **Recommendation:** Dispose of in accordance with all applicable federal, state and local regulations.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

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**Trade name: Plastic Media:**  
**# 5300, # 5300 S, RKP-U**

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### 14 Transport information

- DOT regulations:
- Hazard class: -
  
- Land transport ADR/RID (cross-border):
- ADR/RID class: -
  
- Maritime transport IMDG:
- IMDG Class: -
  
- Air transport ICAO-TI and IATA-DGR:
- ICAO/IATA Class: -
  
- Transport/Additional information: Not dangerous according to the above specifications.

### 15 Regulations

- Sara

<b>- Section 355 (extremely hazardous substances):</b>	
None of the ingredient is listed.	
<b>- Section 313 (Specific toxic chemical listings):</b>	
1344-28-1	aluminium oxide
<b>- TSCA (Toxic Substances Control Act):</b>	
All ingredients are listed.	
<b>- Proposition 65</b>	
<b>- Chemicals known to cause cancer:</b>	
None of the ingredients is listed.	
<b>- Chemicals known to cause reproductive toxicity for females:</b>	
None of the ingredients is listed.	
<b>- Chemicals known to cause reproductive toxicity for males:</b>	
None of the ingredients is listed.	
<b>- Chemicals known to cause developmental toxicity:</b>	
None of the ingredients is listed.	
<b>- Cancerogenity categories</b>	
<b>- EPA (Environmental Protection Agency)</b>	
None of the ingredients is listed.	
<b>- IARC (International Agency for Research on Cancer)</b>	
None of the ingredients is listed.	
<b>- NTP (National Toxicology Program)</b>	
None of the ingredients is listed.	
<b>- TLV (Threshold Limit Value established by ACGIH)</b>	
1344-28-1	aluminium oxide
	A4
<b>- NIOSH-Ca (National Institute for Occupational Safety and Health)</b>	
None of the ingredients is listed.	
<b>- OSHA-Ca (Occupational Safety &amp; Health Administration)</b>	
None of the ingredients is listed.	

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**Trade name: Plastic Media:**  
**# 5300, # 5300 S, RKP-U**

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**- Product related hazard informations:**

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations according to directives on hazardous materials.

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### **16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee or warranty for any specific product features and shall not establish a legally valid contractual relationship. The user is responsible for determining whether the product is suitable for its intended conditions of use.

**- Department issuing MSDS:** Department of Product Control

**- Contact:** MSDS Coordinator

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USA

## Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 12/03/2012

Version 6

Reviewed on 12/03/2012

### 1 Identification of the substance/mixture and of the company/undertaking

- Product identifier

- Trade name: **Plastic Media:**

**# 2000 XC, D154, H-10, H-20, H-30, PFC-Z, PFC-ZF**

- Application of the substance / the preparation Grinding media for vibro-finishing

- Details of the supplier of the safety data sheet

- Manufacturer/Supplier:

Rösler Metal Finishing USA, L.L.C.

1551 Denso Road

Battle Creek, MI 49015

USA

Phone: +1(269)441-3000

Fax: +1(269)441-3001

info@roslerusa.com

www.roslerusa.com

- Emergency telephone number:

Emergency Number (24h emergency contact): CHEMTREC Phone: (800)-424-9300

### 2 Hazards identification

- Information concerning particular hazards for human and environment:

The product does not have to be labelled due to the calculation procedure of international guidelines.

- Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

- Label elements

- Labelling according to EU guidelines:

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations according to directives on hazardous materials.

- Classification system:

- NFPA ratings (scale 0 - 4)



Health = 0

Fire = 0

Reactivity = 0

- HMIS-ratings (scale 0 - 4)



Health = 0

Fire = 0

Reactivity = 0

- Other hazards

- Results of PBT and vPvB assessment

- PBT: Not applicable.

- vPvB: Not applicable.

### 3 Composition/information on ingredients

- Description: Inorganic abrasive material, bonded in polyester-resin, completely cured.

- Dangerous components: Void

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Trade name: **Plastic Media:**  
**# 2000 XC, D154, H-10, H-20, H-30, PFC-Z, PFC-ZF**

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(Contd. of page 1)

- **Additional information:** None of the components is present in its original form, but as bonded material.

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### 4 First aid measures

- **Description of first aid measures**
  - **General information:** No special measures required.
  - **After inhalation:** Supply fresh air; consult doctor in case of complaints.
  - **After skin contact:** Generally the product does not irritate the skin.
  - **After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
  - **After swallowing:** If symptoms persist consult doctor.
  - **Information for doctor:**
  - **Most important symptoms and effects, both acute and delayed** No further relevant information available.
  - **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.
- 

### 5 Firefighting measures

- **Extinguishing media**
  - **Suitable extinguishing agents:**  
Product will not burn.  
Use fire fighting measures that suit the environment.
  - **Special hazards arising from the substance or mixture** No further relevant information available.
  - **Advice for firefighters**
  - **Protective equipment:** Wear self-contained respiratory protective device.
  - **Additional information**  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
- 

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
  - **Environmental precautions:** No special measures required.
  - **Methods and material for containment and cleaning up:**  
Pick up mechanically.  
Send for recovery or disposal in suitable receptacles.
  - **Reference to other sections** No dangerous substances are released.
- 

### 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Prevent formation of dust.  
No special precautions are necessary if used correctly.
- **Information about protection against explosions and fires:** No special measures required.
  
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Store in dry conditions.  
The product is unlimited storable.
- **Specific end use(s)** No further relevant information available.

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Trade name: **Plastic Media:**  
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### 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:** Wash hands before breaks and at the end of work.
- **Breathing equipment:** Not necessary in case of intended use.
- **Protection of hands:** Not required.
- **Eye protection:** Not required.
- **Body protection:** Protective work clothing

### 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
  - Form:** Solid in various forms
  - Color:** Different according to coloring
  - Odor:** Characteristic
- **pH-value at 20°C (68°F):** Not applicable
- **Change in condition**
  - Melting point/Melting range:** Undetermined.
  - Boiling point/Boiling range:** Undetermined.
- **Flash point:** Not applicable.
- **Auto igniting:** Product is not selfigniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Density at 20°C (68°F) at 20°C (68 °F):** ~ 1.5 - 1.8 g/cm<sup>3</sup> (~ 12.518 - 15.02 lbs/gal)
- **Solubility in / Miscibility with Water:** Insoluble.
- **Viscosity:**
  - Dynamic at 22°C (72°F):** Not applicable
- **Other information** No further relevant information available.

### 10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used and stored according to specifications.

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## Material Safety Data Sheet

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**Trade name: Plastic Media:**  
**# 2000 XC, D154, H-10, H-20, H-30, PFC-Z, PFC-ZF**

(Contd. of page 3)

- **Possibility of hazardous reactions** No dangerous reactions in case of intended use.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** None in case of intended use and storage.

### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**

The product is not subject to classification according to internally approved calculation methods for preparations:  
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

- **Carcinogenic categories**

<b>- IARC (International Agency for Research on Cancer)</b>		
14808-60-7	Quartz (SiO <sub>2</sub> )	1
<b>- NTP (National Toxicology Program)</b>		
14808-60-7	Quartz (SiO <sub>2</sub> )	K

### 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Avoid transfer into the environment.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:** Dispose of in accordance with all applicable federal, state and local regulations.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

- **UN-Number**
- **DOT, ADR, ADN, IMDG, IATA** Void
- **UN proper shipping name**
- **DOT, ADR, ADN, IMDG, IATA** Void

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**Trade name: Plastic Media:**  
**# 2000 XC, D154, H-10, H-20, H-30, PFC-Z, PFC-ZF**

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- Transport hazard class(es)
- DOT, ADR, ADN, IMDG, IATA
- Class Void
- Packing group
- DOT, ADR, IMDG, IATA Void
- Special precautions for user Not applicable.
- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.
- Transport/Additional information: Not dangerous according to the above specifications.

### 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

<b>- Section 355 (extremely hazardous substances):</b>	
None of the ingredient is listed.	
<b>- Section 313 (Specific toxic chemical listings):</b>	
None of the ingredients is listed.	
<b>- TSCA (Toxic Substances Control Act):</b>	
All ingredients are listed.	
<b>- Proposition 65</b>	
<b>- Chemicals known to cause cancer:</b>	
None of the ingredients is listed.	
<b>- Chemicals known to cause reproductive toxicity for females:</b>	
None of the ingredients is listed.	
<b>- Chemicals known to cause reproductive toxicity for males:</b>	
None of the ingredients is listed.	
<b>- Chemicals known to cause developmental toxicity:</b>	
None of the ingredients is listed.	
<b>- Cancerogenity categories</b>	
<b>- EPA (Environmental Protection Agency)</b>	
None of the ingredients is listed.	
<b>- TLV (Threshold Limit Value established by ACGIH)</b>	
14808-60-7	Quartz (SiO2) A2
<b>- NIOSH-Ca (National Institute for Occupational Safety and Health)</b>	
14808-60-7	Quartz (SiO2)
<b>- OSHA-Ca (Occupational Safety &amp; Health Administration)</b>	
None of the ingredients is listed.	

- Product related hazard informations:  
Observe the general safety regulations when handling chemicals.  
The product is not subject to identification regulations according to directives on hazardous materials.
- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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**Trade name: Plastic Media:**  
**# 2000 XC, D154, H-10, H-20, H-30, PFC-Z, PFC-ZF**

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### **16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee or warranty for any specific product features and shall not establish a legally valid contractual relationship. The user is responsible for determining whether the product is suitable for its intended conditions of use.

- **Department issuing MSDS:** Department of Product Control
  - **Contact:** MSDS Coordinator
- 

USA