



MATERIAL SAFETY DATA SHEET

SECTION I: IDENTIFICATION

Manufacturer: DeWalt Abrasives Hazard: Health: 1
1108 Commerce Street Rating: Flammability 0
Marshall, TX 75672 Reactivity 0
(903) 935-1906 (Emergency)

Product Name: Resinoid Bonded Cutting Off and Grinding Wheels
Product Type: Metal (ferrous)

SECTION II: COMPOSITION PER 20CFR 1910.1200(G)(4)

| | <u>Chemical Name</u> | <u>Max%</u> | <u>Common Name</u> | <u>CAS#</u> | <u>OSHA PEL</u> | <u>ACGIH TLV</u> | <u>Carcinogenic Y/N</u> |
|----|--------------------------|-------------|--------------------|-------------|----------------------|----------------------|-------------------------|
| 1) | Aluminum oxide | 90 | Same | 1344-28-1 | 10mg/m ³ | 10mg/m ³ | No |
| 2) | Cured Phenolic resin | 20 | Same | NAIF* | NAIF* | 10mg/m ³ | No |
| 3) | Sodium aluminum fluoride | 20 | Cryolite | 15096-52-3 | 2.5mg/m ³ | 2.5mg/m ³ | No |
| 4) | Iron disulfide | 20 | Iron Pyrites | 12068-85-8 | NAIF* | NAIF* | No |
| 5) | Fiberglass discs | 15 | Same | | NAIF* | 10mg/m ³ | No |
| 6) | Calcium fluoride | 20 | Fluorspar | 14542-23-5 | 5.3mg/m ³ | 5.3mg/m ³ | No |
| 7) | Furfural | 3 | Same | 98-01-1 | 5ppm | 2ppm | No |

SECTION III: PHYSICAL DATA

Boiling Point (°F): N/A** Specific Gravity (H₂O=1): Varies
Vapor Pressure (mm Hg): N/A** % Volatile by Volume: 0
Vapor Density (Air=1): N/A** Evaporation Rate: N/A**
Water Solubility: Negligible Solubility in Other Solvents: NAIF*
Appearance: Solid wheel shape with black, dark brown or reddish color.
Odor: May give off slight odor during storage and/or use.

SECTION IV: SPECIAL PRECAUTIONS

Special precautions to be taken during storage and handling: None
Other Precautions: NAIF*

SECTION V: CORROSIVITY AND REACTIVITY DATA

Stability: Stable
Polymerization: Will not occur
Decomposition Products: In use, the grinding wheel will generate dust and odors. In most cases, the material removed from the work piece will be significantly greater than that generated from the grinding wheel. Coolants, if used, may produce other decomposition products.

SECTION VI: FIRE AND EXPLOSION HAZARD DATA

| | | |
|-----------------------------------|--------------|--------------------|
| Flash Point: | N/A**, NAIF* | Method Used: N/A** |
| Flammable Limits: | LEL: NA** | UEL: NA** |
| Extinguishing Media: | Water | |
| Special Fire Fighting Procedures: | None | |
| Explosion Potential: | NAIF* | |

SECTION VII: HEALTH, FIRST AID AND MEDICAL DATA

| <u>Primary Routes Of Entry</u> | <u>Acute and Chronic Health Effects and Effects of Overexposure</u> | <u>First Aid and Medical Information</u> |
|---|--|--|
| Inhalation (during grinding) | Acute: Coughing, shortness of breath Chronic: May affect breathing capacity May affect pre-existing respiratory condition(s) | Remove to fresh air Artificial respiration as needed Obtain medical assistance |
| Ingestion (during grinding) | No known adverse effects, but ingestion not recommended | Obtain medical assistance |
| Skin, Contact & Absorption (during grinding) | Some may experience skin irritation from dust | Wash affected areas with soap and water. Obtain medical assistance |
| Eye (during grinding) | Dust may irritate eyes | Wash with large quantities of Water. Obtain medical assistance. |
| Other Potential Risks (during grinding) | Grinding may create elevated sound levels which may affect hearing and pre-existing hearing condition(s). | Obtain medical assistance |

SECTION VIII: STORAGE, HANDLING AND USE PROCEDURES

| | |
|--|---|
| Normal Storage and Handling: | Handle abrasive cutting off wheels and grinding wheels carefully to prevent damage from shock, heat, etc. Store in dry protected area free from humidity, freezing temperatures or extreme temperature changes. Consult ANSI B.1: Safety Requirements for the Use, Care, and Protection of Abrasive Wheels. |
| Normal Use: | Use with adequate ventilation. See OSHA 29CFR 1910.94 (Ventilation) and 29CFR 1910.1000 (Air Contaminants). Use all abrasive cutting off wheels and grinding wheels in accordance with all applicable federal and state safety codes and as directed in ANSI B7.1: Safety Requirements for the Use, Care, and Protection of Abrasive Wheels |
| Steps to be Taken in Case Of Leaks and Spills: | Normal cleanup procedures |
| Waste Disposal Methods: | Standard landfill methods in compliance with all applicable federal, state and local laws, products with listed fluorides may have slightly soluble fluoride in the swarf. |

SECTION IX: PERSONAL PROTECTION INFORMATION

Respiratory Protection: As required, for approved dust respirators see OSHA 29CFR 1910.134
Ventilation: Local: Recommended
Mechanical: Recommended
Other: NAIF*

Protective Gloves: Recommended, as desired by user
Eye Protection: Recommended, see OSHA 1910.29CFR 1910.133 (Eye protection)
Other Equipment: As required hearing protection, see OSHA 29CFR 1910.95 (Hearing protection)

Measures to be taken during repair and maintenance of equipment that has been in contact with material from grinding wheel: See Sections VIII and IX

Disclaimer: The information presented in this MSDS was obtained from sources which are believed to be reliable. However, the information is provided without any representation or warranty, expressed or implied, regarding accuracy or correctness. The conditions or methods of storage, handling, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons we do not assume responsibility for loss, damage, or expense arising out of or in any way connected with the storage, handling, use or disposal of this product.

Prepared: 11 October 1993 (Rev'd 3 April 2000)
NAIF*: No applicable information found
NA**: No applicable information found



MATERIAL SAFETY DATA SHEET

SECTION I: IDENTIFICATION

Manufacturer: DeWalt Abrasives Hazard: Health: 1
1108 Commerce Street Rating: Flammability 0
Marshall, TX 75672 Reactivity 0
(903) 935-1906 (Emergency)

Product Name: Resinoid Bonded Cutting Off and Grinding Wheels
Product Type: Masonry/Concrete/Asphalt

SECTION II: COMPOSITION PER 20CFR 1910.1200(G)(4)

| | <u>Chemical Name</u> | <u>Max%</u> | <u>Common Name</u> | <u>CAS#</u> | <u>OSHA PEL</u> | <u>ACGIH TLV</u> | <u>Carcinogenic Y/N</u> |
|----|--------------------------|-------------|--------------------|-------------|----------------------|----------------------|-------------------------|
| 1) | Silicon carbide | 90 | Same | 409-21-2 | 10mg/m ³ | 10mg/m ³ | No |
| 2) | Cured Phenolic resin | 20 | Same | NAIF* | NAIF* | 10mg/m ³ | No |
| 3) | Sodium aluminum fluoride | 20 | Cryolite | 15096-52-3 | 2.5mg/m ³ | 2.5mg/m ³ | No |
| 4) | Iron disulfide | 20 | Iron Pyrites | 12068-85-8 | NAIF* | NAIF* | No |
| 5) | Fiberglass discs | 15 | Same | NAIF* | NAIF* | 10mg/m ³ | No |
| 6) | Calcium fluoride | 20 | Fluorspar | 14542-23-5 | 5.3mg/m ³ | 5.3mg/m ³ | No |
| 7) | Furfural | 3 | Same | 98-01-1 | 5ppm | 2ppm | No |

SECTION III: PHYSICAL DATA

Boiling Point (°F): N/A** Specific Gravity (H₂O=1): Varies
Vapor Pressure (mm Hg): N/A** % Volatile by Volume: 0
Vapor Density (Air=1): N/A** Evaporation Rate: N/A**
Water Solubility: Negligible Solubility in Other Solvents: NAIF*
Appearance: Solid wheel shape with black, dark brown or reddish color.
Odor: May give off slight odor during storage and/or use.

SECTION IV: SPECIAL PRECAUTIONS

Special precautions to be taken during storage and handling: None
Other Precautions: NAIF*

SECTION V: CORROSIVITY AND REACTIVITY DATA

Stability: Stable
Polymerization: Will not occur
Decomposition Products: In use, the grinding wheel will generate dust and odors. In most cases, the material removed from the work piece will be significantly greater than that generated from the grinding wheel. Coolants, if used, may produce other decomposition products.

SECTION VI: FIRE AND EXPLOSION HAZARD DATA

| | | |
|-----------------------------------|--------------|--------------------|
| Flash Point: | N/A**, NAIF* | Method Used: N/A** |
| Flammable Limits: | LEL: NA** | UEL: NA** |
| Extinguishing Media: | Water | |
| Special Fire Fighting Procedures: | None | |
| Explosion Potential: | NAIF* | |

SECTION VII: HEALTH, FIRST AID AND MEDICAL DATA

| <u>Primary Routes Of Entry</u> | <u>Acute and Chronic Health Effects and Effects of Overexposure</u> | <u>First Aid and Medical Information</u> |
|---|--|--|
| Inhalation (during grinding) | Acute: Coughing, shortness of breath Chronic: May affect breathing capacity May affect pre-existing respiratory condition(s) | Remove to fresh air Artificial respiration as needed Obtain medical assistance |
| Ingestion (during grinding) | No known adverse effects, but ingestion not recommended | Obtain medical assistance |
| Skin, Contact & Absorption (during grinding) | Some may experience skin irritation from dust | Wash affected areas with soap and water. Obtain medical assistance |
| Eye (during grinding) | Dust may irritate eyes | Wash with large quantities of Water. Obtain medical assistance. |
| Other Potential Risks (during grinding) | Grinding may create elevated sound levels which may affect hearing and pre-existing hearing condition(s). | Obtain medical assistance |

SECTION VIII: STORAGE, HANDLING AND USE PROCEDURES

| | |
|--|---|
| Normal Storage and Handling: | Handle abrasive cutting off wheels and grinding wheels carefully to prevent damage from shock, heat, etc. Store in dry protected area free from humidity, freezing temperatures or extreme temperature changes. Consult ANSI B.1: Safety Requirements for the Use, Care, and Protection of Abrasive Wheels. |
| Normal Use: | Use with adequate ventilation. See OSHA 29CFR 1910.94 (Ventilation) and 29CFR 1910.1000 (Air Contaminants). Use all abrasive cutting off wheels and grinding wheels in accordance with all applicable federal and state safety codes and as directed in ANSI B7.1: Safety Requirements for the Use, Care, and Protection of Abrasive Wheels |
| Steps to be Taken in Case Of Leaks and Spills: | Normal cleanup procedures |
| Waste Disposal Methods: | Standard landfill methods in compliance with all applicable federal, state and local laws, products with listed fluorides may have slightly soluble fluoride in the swarf. |

SECTION IX: PERSONAL PROTECTION INFORMATION

| | | |
|-------------------------|--|-------------|
| Respiratory Protection: | As required, for approved dust respirators see OSHA 29CFR 1910.134 | |
| Ventilation: | Local: | Recommended |
| | Mechanical: | Recommended |
| | Other: | NAIF* |

| | |
|---|---|
| Protective Gloves: | Recommended, as desired by user |
| Eye Protection: | Recommended, see OSHA 1910 29CFR 1910.133 (Eye protection) |
| Other Equipment: | As required hearing protection, see OSHA 29CFR 1910.95 (Hearing protection) |
| Measures to be taken during repair and maintenance of equipment that has been in contact with material from grinding wheel: | See Sections VIII and IX |

Disclaimer: The information presented in this MSDS was obtained from sources which are believed to be reliable. However, the information is provided without any representation or warranty, expressed or implied, regarding accuracy or correctness. The conditions or methods of storage, handling, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons we do not assume responsibility for loss, damage, or expense arising out of or in any way connected with the storage, handling, use or disposal of this product.

| | |
|-----------|--------------------------------------|
| Prepared: | 11 October 1993 (Rev'd 3 April 2000) |
| NAIF*: | No applicable information found |
| NA**: | No applicable information found |