



MATERIAL SAFETY DATA SHEET

CONVOLUTE WHEELS

Section I - Company Information

Distributor Name:
SPARKY ABRASIVES

Emergency Telephone Number:
800-328-4560

Address:
Willmar, MN 56201

Telephone Number for Information:
800-447-4248

Date Prepared: January 1, 2010

Product Use: Abrasive Product

Section 2 - Ingredients

Ingredient	C.A.S. No.	% by Wt
Cured Adhesive	None	20-50
Silicon Carbide Mineral	409-21-2	0 – 50
Corundum	1344-28-1	0 – 50
Nylon Fiber	32131-17-2	10 – 25
Fiber Core	None	2 – 8
Silicon Dioxide	60676-86-0	0 – 8
Filler	Mixture	< 1
Lubricant	1592-23-0	0 - 3



Section 3 – Hazards Identification

3.1 *Emergency Overview*

Odor, Color, Grade: Solid abrasive product
General Physical Form: Solid

3.2 *Potential Health Effects*

Eye Contact: Mechanical eye irritation: Signs/symptoms may include pain, redness, tearing and corneal abrasion. Dust created by cutting, grinding, sanding, or machining may cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Skin Contact: Mechanical Skin irritation: Signs/symptoms may include abrasion, redness, pain, and itching.

Inhalation: Dust from cutting, grinding, sanding or machining may cause irritation of the respiratory system. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. Prolonged or repeated exposure may cause: Pneumoconiosis: Sign/symptoms may include persistent cough, breathlessness, chest pain, increased amounts of sputum, and changes in lung function tests.

Ingestion: Physical Blockage: Signs/symptoms may include cramping, abdominal pain, and constipation.

SECTION 4 FIRST AID MEASURES

4.1 FIRST AID PROCEDURES The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

Eye Contact: Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

Skin Contact: Wash affected area with soap and water. If signs/symptoms develop, get medical attention.

Inhalation: Remove person to fresh air. If signs/symptoms develop, get medical attention.

If Swallowed: Do not induce vomiting unless instructed to do so by medical personnel. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get medical attention.



SECTION 5 FIRE-FIGHTING MEASURES

5.1 FLAMMABLE PROPERTIES

Autoignition temperature	<i>Not Applicable</i>
Flash Point	<i>Not Applicable</i>
Flammable Limits - LEL	<i>Not Applicable</i>
Flammable Limits - UEL	<i>Not Applicable</i>

Ordinary combustible material. Use fire extinguishers with class A extinguishing agents (e.g., water, foam).

5.3 PROTECTION OF FIRE FIGHTERS

Special Fire Fighting Procedures: Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus(SCBA).

Unusual Fire and Explosion Hazards: Not applicable. None inherent in this product.

Note: See **STABILITY AND REACTIVITY (SECTION 10)** for hazardous combustion and thermal decomposition information.

SECTION 6 ACCIDENTAL RELEASE PROCEDURE

Accidental Release Measures: Not applicable.

In the event of a release of this material, the user should determine if the release qualifies as reportable according to local, state, and federal regulations.



HANDLING AND STORAGE

SECTION 7

7.1 HANDLING

Avoid breathing of dust created by cutting, sanding, grinding or machining. For industrial or professional use only. Damaged product can break apart during use and cause serious injury to face or eyes. Check product for damage such as cracks or nicks prior to use.

Replace if damaged. Always wear eye and face protection when working at sanding or grinding operations or when near such operations. Sparks and particles flying from the product during sanding or grinding can cause injury and fire.

7.2 STORAGE

Store in a cool, dry place.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 ENGINEERING CONTROLS

Use with appropriate local exhaust ventilation. Provide appropriate local exhaust for cutting, grinding, sanding or machining. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits and/or control dust, fume, or airborne particles. If ventilation is not adequate, use respiratory protection equipment.

8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

8.2.1 Eye/Face Protection Avoid eye contact. To minimize the risk of injury to face and eyes, always wear eye and face protection when working at sanding or grinding operations or when near such operations. Avoid skin contact. Wear appropriate gloves to minimize risk of injury to skin from contact with dust or physical abrasion from grinding or sanding.

8.2.3 Respiratory Protection Avoid breathing of dust created by sanding, grinding or machining. Assess exposure concentrations of all materials involved in the work process. Consider material being abraded when determining the appropriate respiratory protection. Select and use appropriate respirators to prevent inhalation overexposure.

8.2.4 Prevention of Swallowing Wash hands after handling and before eating. Not an expected route of exposure.



8.3 EXPOSURE GUIDELINES

Ingredient Authority Type Limit Additional Information

SILICON CARBIDE MINERAL ACGIH TWA,
as fibrous forms, including whiskers 0.1 fiber/cc Table A2
as non-fibrous, respirable 3 mg/m³
as non-fibrous, inhalable fraction 10 mg/m³

SILICON CARBIDE MINERAL OSHA TWA,
respirable 5 mg/m³ Table Z-1
Vacated, as dust 10 mg/m³
as total dust 15 mg/m³ Table Z-1

CORUNDUM ACGIH TWA, particulate matter, < 1% crystalline silica 10 mg/m³ Table A4

CORUNDUM CMRG TWA 1 fiber/cc

CORUNDUM OSHA TWA,
respirable 5 mg/m³ Table Z-1
vacated, as dust 10 mg/m³
as total dust 15 mg/m³ Table Z-1

VAC Vacated PEL: Vacated Permissible Exposure Limits [PEL] are enforced as the OSHA PEL in some states. Check with your local regulatory agency.

SOURCE OF EXPOSURE LIMIT DATA:

ACGIH: American Conference of Governmental Industrial Hygienists

CMRG: Chemical Manufacturer Recommended Guideline

OSHA: Occupational Safety and Health Administration

AIHA: American Industrial Hygiene Association Workplace Environmental Exposure Level (WEEL)



SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Odor, Color, Grade: Solid abrasive product

General Physical Form: Solid

Autoignition temperature *Not Applicable*

Flash Point *Not Applicable*

Flammable Limits - LEL *Not Applicable*

Flammable Limits - UEL *Not Applicable*

Boiling point *Not Applicable*

Vapor Density *Not Applicable*

Vapor Pressure *Not Applicable*

Specific Gravity *Not Applicable*

pH *Not Applicable*

Melting point *Not Applicable*

Solubility In Water *Not Applicable*

SECTION 10 STABILITY AND REACTIVITY

Stability: Stable.

Materials and Conditions to Avoid: Not Applicable

Hazardous Polymerization: Hazardous polymerization will not occur.

Hazardous Decomposition or By-Products

Substance Condition

Carbon monoxide During Combustion

Carbon dioxide During Combustion

Hazardous Decomposition: Under recommended usage conditions, hazardous decomposition products are not expected. Hazardous decomposition products may occur as a result of oxidation, heating, or reaction with another material.



SECTION 11 TOXICOLOGY INFORMATION

11.1 Eye contact .

Mechanical irritation of eyes: symptoms can include irritation, reddening, cornea abrasion and watering. Dusts arising from use can cause eyes inflammation..

11.2 Skin contact.

Mechanical skin irritation: symptoms can include itches and erythem.

11.3 Inhalation.

Irritation (upper respiratory section): symptoms can include nose ache and throat ache, cough , sneezing. Dusts arising during use can cause irritation of respiratory system.

11.4 Ingestion.

Ingestion is not a probable way of exposure to this product .

11.5 Other toxicologic information .

Health hazards derive from the material that is grinded.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

Not determined.

CHEMICAL FATE INFORMATION

Not determined.



SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method: The substrate that was abraded must be considered as a factor in the disposal method for this product.

Dispose of waste product in a sanitary landfill. As a disposal alternative, incinerate in an industrial or commercial facility in the presence of a combustible material.

Since regulations vary, consult applicable regulations or authorities before disposal.

SECTION 14 TRANSPORT INFORMATION

14.1 UN number:	No regulations .
14.2 ADR/RID Class:	No regulations.
14.3 IMO Class:	No regulations.
14.4 ICAO Class:	No regulations.

SECTION 15 INFORMATION ON REGULATIONS

This MSDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.



SECTION 16 OTHER INFORMATION

NFPA Hazard Classification

Health: 1 Flammability: 0 Reactivity: 0 Special Hazards: None

Hazard 0=minimal 1=slight 2=moderate 3=severe hazard 4=extreme hazard

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies.

Information given in this security sheet is based on data available at present and according to our best knowledge regarding the more suitable procedures for product handling under normal conditions. Any other use of the product not according to the information of present sheet or the use of product together with any other product or in any other process fall on the sole responsibility of the user. Laws and regulations have to be strictly followed by users who are responsible for the use of products described on present sheet.

NOTE: Non woven abrasives are inert products, which do not cause risks when correctly stored or handled. During the use, in case they are fixed on machine tools, special care has to be taken to protect the users.

During the use most abrasive dust particles come from the abrasive material which is being converted and from the cooling liquid, if any, so that special attention has to be given particularly to the features of the abrasive material and to the cooling agent (if any), providing, where necessary, the right protections and exhausters.