



BOSCH

Material Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Dremel 421 Polishing Compound

Catalog Number : 2615110421

Product Identifier: Abrasive System Division

Manufacturer/Distributor: Robert Bosch Tool Corporation
1800 W. Central Road
Mt. Prospect, IL 60056

For More Information Call:

(Monday-Friday, 8:00 AM– 5:00 PM CST)
Dremel
Customer Service
800-437-3635

In Case Of Emergency Call:

(24 Hours/Day, 7 Days/Week)
(866) 403-6302

General Use: Use with felt or cloth accessories to polish metals and plastics. Compound will remove a dull oxidized film and/or light surface imperfections

2. COMPOSITION/INFORMATION ON INGREDIENT

INGREDIENT	PERCENT GC
Silicon Carbide	76
Vitrified Bond	24
* Chemical composition:	
SiC	75
SiO2	16.6
Al2O3	4.2
Na2O	0.8
CaO	0.7
K2O	1.6
Fe2O3	0.06
Others	1.04

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

Product is not considered hazardous in shipping, storage, or handling according to the criteria of the federal OSHA Hazard Communication Standard 29 CFR 1910.1200. However observe precautions for the dust generated by the user.

POTENTIAL HEALTH EFFECTS:

Inhalation:

No adverse health effects are expected from inhalation exposure.

Eye Contact:

Eye contact is not expected to occur during normal use of the product. Mechanical Eye Irritation: Signs/Symptoms can include irritation, redness, scratching of the cornea and tearing. Dust creating by cutting, grinding, sanding, or machining may cause eye irritation. Dust creating by cutting, grinding, sanding, or machining may cause eye irritation.

Skin Contact:

No adverse health effects are expected from skin contact. Mechanical skin irritation: signs/symptoms can include itching and redness.



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Ingestion:

No hazard anticipated through ingestion in normal industrial use.

Chronic:

Suspect Cancer Hazard (contains silica), Risk of cancer depends on duration and level of exposure to respirable dust

4. FIRST AID MEASURES**INHALATION:**

If signs/symptoms occur, remove person to fresh air. If signs/symptoms continue, call a physician.

EYE CONTACT:

Immediately flush eyes with plenty of water for 15 minutes. If abrasive particles are not removed by flush, obtain medical attention.

SKIN CONTACT:

Wash with soap and water. Wash clothing daily, imbedded abrasive particles can abrade skin resulting in irritation

INGESTION:

Swallowing less than an ounce will not cause significant harm. For larger amounts do not induce vomiting, but give two 12 ounce glasses of water and obtain medical advise.

5. FIRE FIGHTING MEASURES

Flashpoint and Method: Not applicable

Flammable Limits: Not applicable

Auto ignition Temperature: Not applicable

Extinguishing Media: Water, carbon dioxide, dry chemical, foam

Special Fire Fighting Procedures:

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

Unusual Fire and Explosion Hazards: Not applicable

NFPA HAZARD CODES: Health: 1, Fire: 0, Reactivity: 0, Unusual Reaction Hazard: none

6. ACCIDENTAL RELEASE MEASURES

Sweep or scoop up material for reuse or reclaim if possible; otherwise place in a disposal container for proper disposition. Do not flush to sewers or waterways unless authorized to do so by appropriate government official.

7. HANDLING AND STORAGE

Storage Temperature: Ambient

General: Keep out of sun and away from heat sources, as product may melt. Observe all safeguards for container residue until cleaned or destroyed

8. EXPOSURE ECONTROL/PERSONAL PROTECTION**Engineering Controls:**

Local exhaust ventilation should be provided to maintain the airborne exposure to personnel below the OSHA PEL and ACCIH TWA during handling and use

Personal Protection/Respirator:

Where engineering controls cannot be provided a NIOSH/MSHA approved respirator for dust's having a TWA not less than 0.05 MG/M3 should be used during buffing operation's. Respiratory protection is usually not required during normal storage and handling

Protective Clothing:

For normal handling of unused product wear safety glasses and observe normal good hygiene, such as frequent



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washing of exposed areas and a daily change and laundering of clothing. During buffing the use of a face shield, cloth gloves, and cloth apron is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point	.....	Not Applicable
Vapor Pressure	.....	Not Applicable
Vapor Density	.....	Not Applicable
Evaporation Rate	.....	Not Applicable
Solubility In water	.....	Not Applicable
Percent Volatile	.....	Not Applicable
PH	.....	Not Applicable
Viscosity	.....	Not Applicable
Melting Point	.....	Not Applicable

10. STABILITY AND REACTIVITY

Stability: Stable
 Incompatibility; Materials/conditions to avoid: Not Applicable
 Hazardous Polymerization: Hazardous polymerization will not occur.
 Hazardous Decomposition Products: No hazardous decomposition products are expected during normal use of this product. However, during flaming conditions or excessive heating the following may be emitted: Carbon Monoxide, Carbon Dioxide, Oxides of nitrogen, cyanides, formaldehyde

11. TOXICOLOGICAL INFORMATION

Eye Protection: Wear safety glasses with side shields.
 Use protective glasses and/or face shield as recommended in ANSI Standard Z87.1.
 Skin Protection: Not Applicable
 Recommended Ventilation:
 Provide appropriate local exhaust for grinding, cutting or sanding cured material.
 If exhaust ventilation is not adequate, use appropriate respiratory protection.
 Use particulate collection systems.
 Respiratory Protection:
 Avoid breathing of dust created by cutting, sanding or grinding.
 Select one of the following NIOSH approved respirators based on airborne concentration of contaminant and in accordance with OSHA regulations: half-mask dust respirator, full-face dust respirator.
 Prevention of Accidental Ingestion: Do not ingest.
 Recommended Storage: Not Applicable
 Fire and Explosion Avoidance: Not Applicable

EXPOSURE LIMITS

INGREDIENT	VALUE	UNIT	TYPE	AUTHORITY	SKIN*
Silicon Carbide or	10	MG/M3	TWA	ACGIH	
Silicon Carbide or	10	MG/M3	TWA	OSHA	
Cured Adhesive	None	None	None	None	
Nylon Fibers or WEB	None	None	None	None	
Calcium Carbonate	10	MG/M3	TWA	ACGIH	
Calcium Carbonate	15	MG/M3	TWA	OSHA	

* Skin Notation: Listed substances indicated with "Y" under Skin refer to the potential contribution to the overall exposure by the cutaneous route including mucous membrane and eye, either by airborne or, more particularly, by direct contact with the substance. Vehicles can alter skin absorption.

Source of Exposure Limit Data:
 - ACGIH: American Conference of Governmental Industrial Hygienists
 - OMRG: Chemical Manufacturer Recommended Exposure Guidelines
 - OSHA: Occupational Safety and Health Administration
 - None: None Established



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12. ECOLOGICAL INFORMATION

No information available

13. DISPOSAL CONSIDERATIONS

Recommended Disposal: Incinerate in an industrial or commercial facility. Dispose of waste product in a sanitary landfill.

Environmental Data: Not determined.

Regulatory Information:

Volatile Organic Compounds: Not Applicable

Volatile Organic Compounds less H₂O & Exempt Solvents: Not Applicable

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

U.S. Hazardous Waste Number = None (Not U.S. EPA Hazardous)

EPCRA Hazard Class:

Fire Hazard: No Pressure: No Reactivity: No Acute: Yes Chronic: No

14. TRANSPORTATION INFORMATION

Proper Shipping Name: Polishing Compound

Hazardous Label Required: NONE

IATA (Air Shipping Name): None

IMO (Boat shipping name): None

15. REGULATORY INFORMATION

TSCA (Toxic Substance Control Act): All components of this product are listed on the TSCA Inventory.

CERCLA (Comprehensive Emergency Response, Compensation, and Liability Act): Not Reportable.

SARA TITLE III (Superfund Amendments and Reauthorization Act):

302 Extremely Hazardous Substance's: NONE

311 Hazard Categorization: Acute - Chronic X Fire - Pressure - Reactive - Not Established

312 is the action for the Annual Reporting of SARA 311

313 Reportable Ingredients: NONE

CALIFORNIA Proposition 65 Ingredients: SILICA- See Section 2

MICHIGAN Critical Materials: Not determined

NEW JERSEY Environmental Hazardous Substance List: Not determined

PENNSYLVANIA Hazardous Substance: Not determined

PENNSYLVANIA Environmental Hazardous Substance: Not determined

CANADIAN WHMIS: The workplace Hazardous Materials Information System classification for this product

is: Class D, Div 2, Sub div B, Eye/Skin Irritant

CPR: This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR)

HAZARDOUS PRODUCTS ACT See CERCLA information above

16. OTHER INFORMATION

Although Robert Bosch Tool Corporation has attempted to provide current and accurate information herein, Robert Bosch Tool Corporation makes no representations regarding the accuracy or completeness of the information and assumes no liability for any loss, damage, injury of any kind which may result from or arise out of the use of or reliance on the information by any person.

It shall be the responsibility of the customer purchasing this product to ensure that all employees/users of this product be familiar with and trained in the handling, use and hazards associated with this product as contained herein. This responsibility shall also extend directly to the user.