



Material Safety Data Sheet

Revision Date 27-Apr-2009

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product code 29367
Product name TOP GRIT GRINDING WHEEL
Recommended Use Abrasive

Supplier Lawson Products, Inc.
1666 East Touhy Avenue
Des Plaines, IL 60018
(847)-827-9666

Emergency telephone number (888) 426-4851

2. HAZARDS IDENTIFICATION

Emergency Overview
No information available

Aggravated Medical Conditions
None Known

Principal Routes of Exposure
Eyes. Skin. Inhalation. Ingestion.

Potential health effects

Eyes Irritation.

Skin Skin Irritation.

Inhalation Dust may cause irritation of the respiratory system.

Ingestion No adverse affects expected.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Borosilicate Glass	65997-17-3	1-10
Calcium Oxide	1305-78-8	1-5
Cured Phenolic Resin	9003-35-4	3-15
Iron Disulfide	12068-85-8	2-15
Sulfates & Sulfides	N/A	2-10
Zirconium Oxide	1314-23-4	2-24
Aluminum Oxide	1344-28-1	40-70

4. FIRST AID MEASURES

Eye contact Flush eyes with plenty of water. Seek medical attention if irritation persists.

Skin contact Wash area thoroughly with soap and water. Seek medical attention if irritation persists.

Ingestion Call a physician or Poison Control Center immediately.

Inhalation Remove to fresh air. Administer artificial respiration if not breathing. Immediate medical attention is required.

5. FIRE FIGHTING MEASURES

Flash point °C No data available
Flash point °F No data available
Method No information available

Autoignition temperature °C No data available
Autoignition temperature °F No data available

Flammability Limits (% in Air)
Upper No data available
Lower No data available

Suitable extinguishing media
Use extinguishing media appropriate to surrounding fire

Special protective equipment for firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

Sensitivity to shock
No information available.

Sensitivity to static discharge
No information available.

6. ACCIDENTAL RELEASE MEASURES

Methods for cleaning up
Collect and contain for disposal.

7. HANDLING AND STORAGE

7. HANDLING AND STORAGE**Handling**

Handle carefully to avoid damaging . Check to make sure that all equipment is properly grounded and installed to satisfy electrical classification requirements. Always handle and store in a careful manner. Always visually inspect . Always check machine speed against the established maximum safe operating speed marked on the wheel. Always check mounting flanges for equal and correct diameter. Always use mounting blotters. Always be sure work rest is properly adjusted. Always use a safety guard covering at least one-half of the grinding wheel. Always allow newly mounted wheels to run at operating speed, with guard in place, for at least one minute before grinding. Always turn off coolant before stopping wheel to avoid creating an out-of-balance wheel.

Storage

Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Aluminum Oxide	15 mg/m ³ total 5 mg/m ³	-	-	-
Zirconium Oxide	-	-	-	-
Sulfates & Sulfides	-	-	-	-
Cured Phenolic Resin	-	-	-	-
Iron Disulfide	-	-	-	-
Borosilicate Glass	-	-	-	-
Calcium Oxide	5 mg/m ³	-	2 mg/m ³	-

Ventilation and Environmental Controls

Use enough ventilation, local exhaust at the work area, general, or both, to keep below the TLV's in the worker's breathing zone and the general area.

Hygiene measures

General industrial hygiene practice.

Respiratory protection

Use NIOSH approved respirator if TLV limit is exceeded.

Hand Protection

No information available.

Eye protection

Safety glasses are recommended if dusts are created.

Hearing Protection

Ear plugs should be worn

Skin and body protection

None necessary under normal conditions

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Solid
Color	No information available
Odor	None
Odor Threshold	No information available
pH	No data available
Specific Gravity	No data available
Vapor pressure	No data available
Vapor density	No data available
Evaporation Rate	No data available
Water solubility	No data available
Partition Coefficient (n-octanol/water)	No data available
Boiling point/range °C	No data available
Boiling point/range °F	No data available
Melting point/range °C	No data available
Melting point/range °F	No data available
Flash point °C	No data available
Flash point °F	No data available

10. STABILITY AND REACTIVITY**Stability**

Stable.

Conditions to avoid

No information available

Incompatibility

Acids.

Hazardous Decomposition Products

In use, dust and decomposing organic fumes are generated. In most cases, the material removed from the workpiece will be significantly greater than the grinding wheel components. Coolants may produce other decomposition products.

Polymerization

Hazardous polymerization does not occur

11. TOXICOLOGICAL INFORMATION**Component Information**

Chemical Name	LD50 (oral,rat)	LD50 (dermal,rat/rabbit)	LC50 (inhalation,rat)
Aluminum Oxide 1344-28-1	5000 mg/kg	5000	5000 mg/kg
Zirconium Oxide 1314-23-4	-	-	-
Sulfates & Sulfides N/A	-	-	-
Cured Phenolic Resin 9003-35-4	5 g/kg	5	5 g/kg

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Chemical Name	LD50 (oral,rat)	LD50 (dermal,rat/rabbit)	LC50 (inhalation,rat)
Iron Disulfide 12068-85-8	-	-	-
Borosilicate Glass 65997-17-3	-	-	-
Calcium Oxide 1305-78-8	500 mg/kg	500	500 mg/kg

Synergistic Products None known**Potential health effects****Sensitization** None known**Chronic toxicity** None known**Mutagenic effects** None known**Teratogenic effects** None known**Reproductive toxicity** None known**Target Organ Effects** See Section 2**Carcinogenic effects** See table below

Chemical Name	ACGIH OEL - Carcinogens	IARC	NTP - Known Carcinogens	NTP - Suspected Human Carcinogens	OSHA RTK Carcinogens
Aluminum Oxide	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Zirconium Oxide	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Sulfates & Sulfides	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Cured Phenolic Resin	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Iron Disulfide	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Borosilicate Glass	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Calcium Oxide	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

12. ECOLOGICAL INFORMATION**13. DISPOSAL CONSIDERATIONS****Waste from residues / unused products**

Dispose in accordance with federal, state, and local regulations.

14. TRANSPORTATION INFORMATION**DOT**

Not Regulated

TDG

Not Regulated

IMDG/IMO

Not Regulated

IATA

Not Regulated

MEX

Not Regulated

15. REGULATORY INFORMATION

Chemical Name	US EPA SARA 313 Emission Reporting
Aluminum Oxide	Listed

Chemical Name	New Jersey - RTK	Pennsylvania - RTK	California Prop. 65
Aluminum Oxide	Not Listed	Listed	
Zirconium Oxide	Not Listed	Not Listed	Not Listed
Sulfates & Sulfides	Not Listed	Not Listed	Not Listed
Cured Phenolic Resin	Not Listed	Not Listed	Not Listed
Iron Disulfide	Not Listed	Not Listed	Not Listed
Borosilicate Glass	Not Listed	Not Listed	Not Listed
Calcium Oxide	Not Listed	Listed	Not Listed

Chemical Name	EINECS	DSL	NDSL	TSCA
Aluminum Oxide	X	X	-	X
Zirconium Oxide	X	X	-	X
Sulfates & Sulfides	-	-	-	-
Cured Phenolic Resin	-	X	-	X
Iron Disulfide	X	-	X	X
Borosilicate Glass	X	X	-	X
Calcium Oxide	X	X	-	X

CPRC

This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all of the information required by the Controlled Product Regulations

16. OTHER INFORMATION**NFPA**

Health - 1
 Flammability - 0
 Reactivity - 0

Prepared By

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The information accumulated herein is believed to be accurate, but is not warranted to be, whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.