

**SPARTAN CHEMICAL COMPANY, INC.
WHMIS MATERIAL SAFETY DATA SHEET**

SECTION I: PRODUCT INFORMATION

**PRODUCT IDENTIFIER
THE GRINDER**

PRODUCT USE: Synthetic Grinding Fluid

MANUFACTURER'S NAME & ADDRESS
Spartan Chemical Company, Inc.
1110 Spartan Drive, Maumee, OH 43537 USA

MEDICAL EMERGENCY TELEPHONE
888/314-6171 (24 Hours)
PRODUCT INFORMATION
800/537-8990

SECTION II: HAZARDOUS INGREDIENTS

CAS REGISTRY NO.	% W	CHEMICAL NAME(S)	TLV			LD50	LC50
			TWA mg/m ³	STEL mg/m ³	Ceiling mg/m ³		
102-71-6	20-30	Triethanolamine	5 (ACGIH)	-----	-----	Not available	Not available
10043-35-3	1-5	Boric acid	15 (as dust)	-----	-----	Not available	Not available

SECTION III: PHYSICAL DATA

BOILING POINT 100 °C (212°F)	SPECIFIC GRAVITY (H₂O = 1) 1.06	PERCENT SOLID BY WEIGHT 30-35
VAPOUR PRESSURE Not established	EVAPORATION RATE (butyl acetate = 1) < 1	FREEZING POINT Not available
VAPOUR DENSITY (AIR = 1) Not established	SOLUBILITY IN WATER Complete	ODOUR THRESHOLD Not available
pH 9.4-9.6	APPEARANCE AND ODOUR Clear blue liquid, mild odor	PHYSICAL STATE GAS__ LIQUID <u>X</u> SOLID_____
COEFFICIENT OF WATER/OIL DISTRIBUTION Not available		

SECTION IV: FIRE & EXPLOSION DATA

FLASH POINT >100 °C (212°F)	METHOD USED ASTM - D56	FLAMMABLE LIMITS Not established
EXTINGUISHING MEDIA Water, CO2 or dry chemical	CONDITIONS OF FLAMMABILITY Not applicable	AUTO-IGNITION TEMPERATURE Not applicable
HAZARDOUS COMBUSTION PRODUCTS Combustion products are toxic.		EXPLOSION DATA Not applicable
SPECIAL FIRE FIGHTING PROCEDURES Use self-contained breathing apparatus for maximum respiratory protection. Water may be used to cool containers if not ruptured or leaking.		
UNUSUAL FIRE AND EXPLOSION HAZARDS None known		

SECTION V: REACTIVITY DATA

STABILITY: STABLE X **CONDITIONS OF INSTABILITY** **CONDITIONS OF REACTIVITY**
Not established Not established

INCOMPATIBILITY (MATERIALS TO AVOID) Strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS Carbon dioxide, carbon monoxide

SECTION VI: TOXICOLOGICAL PROPERTIES

PRIMARY ROUTES OF ENTRY: Eye Contact, Skin Contact, Ingestion, Inhalation

EXPOSURE LIMIT

Not established for mixture.

EFFECTS OF ACUTE EXPOSURE:

EYE CONTACT: May cause eye irritation with symptoms such as pain, redness and swelling.

INGESTION: May be harmful if swallowed. Symptoms may include nausea, diarrhea, and intestinal upset.

SKIN CONTACT: May cause skin irritation with symptoms such as pain, redness and swelling.

INHALATION: Breathing product mist may cause respiratory irritation.

EFFECTS OF CHRONIC EXPOSURE

Contains triethanolamine which may cause skin sensitization with repeated contact. Repeated exposure to triethanolamine may cause liver and kidney effects. No chronic health effects are expected from the intended use of this product.

IRRITANCY OF PRODUCT

Causes skin and eye irritation

SENSITIZATION TO PRODUCT

Not available

CARCINOGENICITY

No

REPRODUCTIVE TOXICITY

Contains boric acid which has demonstrated reproductive and developmental effects when ingested by animals in high amounts.

TERATOGENICITY

Not available

MUTAGENICITY

Not available

SYNERGISTIC PRODUCTS

Not available

SECTION VII: PREVENTIVE MEASURE

PERSONAL PROTECTIVE EQUIPMENT / ENGINEERING CONTROLS:

Wear natural rubber or other impervious gloves and splash goggles when handling undiluted product. Provide good general ventilation. Local exhaust ventilation may be necessary for some operations. If respiratory irritation can not be prevented by ventilation, use of a NIOSH approved respirator suitable for the conditions of use and chemicals in Section II should be considered. (N95 or higher recommended)

LEAK AND SPILL PROCEDURE: Dike and contain spills with inert material (sand, earth, commercial absorbent, etc.) and transfer to containers for disposal. Keep spill out of storm sewers and waterways. It is recommended that local authorities be contacted to determine if there are local reporting requirements.

WASTE DISPOSAL METHOD: Assure conformance with applicable regulations.

HANDLING PROCEDURES: Avoid contact with eyes, skin and clothing. Do not swallow. Avoid breathing product mist. Wash thoroughly after handling.

STORAGE REQUIREMENTS: Keep container closed when not in use. Do not freeze. Do not store above 49°C (120°F). Keep out of reach of children.

SPECIAL SHIPPING INFORMATION: None, Shipping Description: Compounds, metal cutting, liquids, n.o.s.

SECTION VIII: FIRST AID MEASURES

EYES: Flush eyes with water for at least 15 minutes. Remove contact lenses. Get medical attention.

SKIN: Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if irritation persists. Wash contaminated clothing before reuse.

INGESTION: Do not induce vomiting. Drink one or two glasses of water to dilute product. Get medical attention. Do not give anything by mouth to an unconscious person.

INHALATION: In case of respiratory irritation or dizziness, move person to fresh air. Get medical attention if irritation persists.

SECTION IX: PREPARATION INFORMATION

THE GRINDER

DATE OF PREPARATION: March 8, 2007

SUPERCEDES: March 20, 1997

PREPARED BY Ronald T. Cook / Manager, Regulatory Affairs / Spartan Chemical Company, Inc.

TELEPHONE NUMBER 800/537-8990