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

## SECTION I: PRODUCT INFORMATION

## PRODUCT IDENTIFIER **TOUGH DUTY**

PRODUCT USE: Industrial Strength All Purpose Cleaner & Degreaser

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)	TWA mg/m³	TLV STEL mg/m <sup>3</sup>	Ceiling mg/m³	LD50	LC50
112-34-5 68991-48-0	1-5 1-5	Diethylene glycol butyl ether Alcohol ethoxylate		Established Established		Not available Not available	Not available Not available

## SECTION III: PHYSICAL DATA

**BOILING POINT** SPECIFIC GRAVITY  $(H_20 = 1)$ PERCENT SOLID BY WEIGHT

100°C (212°F)

Complete

VAPOUR PRESSURE **EVAPORATION RATE** (butyl acetate = 1) **FREEZING POINT** 

Not established Not available

**VAPOUR DENSITY (AIR = 1) SOLUBILITY IN WATER** 

Not established

APPEARANCE AND ODOUR рH

11.5-12.0 Clear pink liquid, floral odor

COEFFICIENT OF WATER/OIL DISTRIBUTION

Not available

**ODOUR THRESHOLD** Not available

PHYSICAL STATE

GAS\_\_ LIQUID\_X SOLID\_

## SECTION IV: FIRE & EXPLOSION DATA

FLASH POINT METHOD USED FLAMMABLE LIMITS

>100 °C (212°F) ASTM - D56 Not established

**EXTINGUISHING MEDIA** CONDITIONS OF FLAMMABILITY **AUTO-IGNITION TEMPERATURE** 

Water, CO2 or dry chemical Not applicable Not applicable HAZARDOUS COMBUSTION PRODUCTS EXPLOSION DATA Not established Not applicable

SPECIAL FIRE FIGHTING PROCEDURES

Use self-contained breathing apparatus for maximum respiratory protection. Cool fire-exposed containers with water spray.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Product does not support combustion. Use extinguishing media appropriate for surrounding fire.

## **SECTION V: REACTIVITY DATA**

CONDITIONS OF INSTABILITY CONDITIONS OF REACTIVITY STABILITY: STABLE X

Not established

Not established

INCOMPATIBILITY (MATERIALS TO AVOID) Strong acids and oxidizing agents 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: Causes eye irritation with symptoms such as pain, redness and swelling of the conjunctiva.

INGESTION: May be harmful if swallowed. Symptoms may include pain, nausea, vomiting and diarrhea.

SKIN CONTACT: Causes skin irritation with symptoms such as pain, redness and swelling. Harmful if absorbed through the skin.

INHALATION: Breathing vapors or mist may cause respiratory irritation.

EFFECTS OF CHRONIC EXPOSURE

REPRODUCTIVE TOXICITY

Contains 2-butoxyethanol which may cause headache, nausea, dizziness and drowsiness. Exposure to 2-butoxyethanol may cause blood, liver and kidney effects based on animal data.

IRRITANCY OF PRODUCT SENSITIZATION TO PRODUCT CARCINOGENICITY

Causes skin and eye irritation Not available

No **TERATOGENICITY** MUTAGENICITY SYNERGISTIC PRODUCTS

Not available Not available Not available Not available

## SECTION VII: PREVENTIVE MEASURE

## PERSONAL PROTECTIVE EQUIPMENT / ENGINEERING CONTROLS:

Wear rubber or other impervious gloves and splash goggles. Provide good general ventilation. Local exhaust ventilation may be necessary for some operations. If exposure limits (see Section II) can not be maintained by ventilation, use of a NIOSH approved respirator suitable for the conditions of use and chemicals in Section II should be considered.

LEAK AND SPILL PROCEDURE: Small spills of one gallon or less may be flushed with plenty of water into sanitary sewer (If permitted by local sewer regulations). Dike and contain larger spills with inert material and transfer to containers for disposal. Keep spill out of storm sewers and waterways.

WASTE DISPOSAL METHOD: Assure conformance with applicable regulations.

HANDLING PROCEDURES: Avoid contact with eyes, skin and clothing. Avoid breathing product vapors or mist.

Do not swallow. Use with adequate ventilation. Wash thoroughly after handling.

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

SPECIAL SHIPPING INFORMATION: None, Shipping Description: Non-Hazardous Products

## SECTION VIII: FIRST AID MEASURES

**EYES:** Flush eves 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, move person to fresh air. Get medical attention if irritation persists.

## SECTION IX: PREPARATION INFORMATION

TOUGH DUTY

**DATE OF PREPARATION** June 1, 2013

**SUPERCEDES** June 1, 2010

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

**TELEPHONE NUMBER** 800/537-8990