

DESCRIPTION

Tough Tiger is a super concentrated cleaner and degreaser that performs thousands of cleaning jobs with ease.

Tough Tiger removes grease, oil and stubborn stains. That makes your life simpler and saves you money because it replaces so many other 'specialty' cleaners with its broad range of applications and it's 'jungle tough' cleaning power.

SPECIAL INFORMATION

Tough Tiger is a Canadian Food Inspection Agency (CFIA) approved product for use in registered food processing plants. Surfaces in direct food contact must be rinsed with potable water.

Tough Tiger is also Kosher approved.

DIRECTIONS

Light duty cleaning:

Use 1.6 oz per gallon of water (12.5 ml/litre)(1:80).

Medium duty cleaning:

Use 3.2 oz per gallon of water (25 ml/litre)(1:40).

Heavy duty cleaning:

Use 6.4 oz per gallon of water (50 ml/litre)(1:20).

Engine degreasing:

Use 26 oz per gallon of water (200 ml/litre)(1:5).

Spray and wipe:

Use 3.2 oz per gallon of water (25 ml/litre)(1:40).

PHYSICAL DATA

Appearance	Clear liquid
Color	Orange
Foam	Low
Odor	Slight solvent
pH	11.5 -12.5

MATERIAL SAFETY DATA SHEET

SECTION 1 – PRODUCT/MANUFACTURER'S IDENTITY

Product Name: **TOUGH TIGER**

WHMIS CODE: D2B, E

Product Use: *Cleaner, degreaser and wax stripper.*

Proper Shipping Name: N/A

Hazard Class: N/A

UN Number: N/A

HMIS

3	Health
0	Flammability
0	Reactivity
B	Personal

A=Goggles, B=Goggles & Gloves
C=Goggles, Gloves and Apron

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EMERGENCY PHONE

Canada: Canutec 613-996-6666
U.S.A.: Chemtrec 800-424-9300

ABBREVIATION KEY: N/A=Not Applicable, N/E=Not Established, N/D=Not Determined, > =Greater Than

SECTION 2 – HAZARDOUS INGREDIENTS INFORMATION

INGREDIENT	CAS NO.	RANGE %	PEL	TLV
ETHYLENE GLYCOL MONOBUTYL ETHER Exposure limit skin: 25 ppm The above item is reported per 40 CFR 372, Section 313 of Emergency Planning and Community Right to Know Act of 1986 LD50 1746 mg/kg LD50 436 ml/kg (Rabbit) LC50 700 ppm, 7hr. (Mouse)	111-76-2	5.0-10.0	N/D	25 ppm TWA
SODIUM HYDROXIDE LD50 340 mg/kg LD50 1350 mg/kg LC50 N/D	1310-73-2	1.0-5.0	2 mg/m ³	2 mg/m ³
ALCOHOL ETHOXYLATE LD50 (oral rat) 1376 mg/kg LD50 (dermal rabbit) >2 g/kg	68439-46-3	1.0-5.0	N/A	N/A

SECTION 3 – PHYSICAL DATA

Color and Odor: Clear pink, solvent odor.	Boiling Point: N/D	Vapor Pressure (mm HG): N/D	pH: 13.0 – 13.5
Physical State: Liquid.	Melting Point: N/A	Vapor Density: N/D	Specific Gravity: 1.02 @ 20°C
Coeff. Water/Oil Dist: Greater than 1.0	Evaporation Rate: N/D	Solubility in Water: Soluble	Odor Threshold: No Data

SECTION 4 – FIRE AND EXPLOSION HAZARD DATA

Flash Point and Method: None to 100°C (TCC) **Sensitivity to Mechanical Impact:** None. **Extinguishing Media:** Not flammable.
Flammable Limits: None known. **Sensitivity to Static Discharge:** None. **Auto ignition Temperature:** None known.
Unusual Fire and Explosion Hazards: None. **Conditions of Flammability:** None.
Hazardous Combustion Products: Carbon & sulfur oxides.
Special Fire Fighting: Wear NIOSH/MSHA approved, self-contained breathing apparatus for fire fighting situation. Use water spray to cool all nearby fire exposed surfaces.

SECTION 5 – REACTIVITY DATA

Chemical Stability: Stable under normal storage conditions. **Hazardous Polymerization:** Will not occur.
Incompatibility (material to avoid): Strong oxidizers and acids. **Hazardous Decomposition Products:** Carbon & sulfur oxides.

SECTION 6 – TOXICOLOGICAL DATA

Exposure Limits: See Section 2 under Hazardous Ingredient. **Routes of Entry:** Skin, eyes, ingestion and inhalation.
Irritancy of Product: May be corrosive to skin and eyes. Irritating to respiratory system. **Teratogenicity:** None known.
Carcinogenicity: None known. **Sensitization:** None known.
Mutagenicity: None known. **Reproductive Toxicity:** None known.
Name of Toxicological Synergistic Product: None known.
Effects of Chronic Exposure: Repeated exposure to concentrated product will cause skin damage.
Effects of Acute Exposure to Product: Product exposure may cause damage to eyes and skin in concentrated form.

SECTION 7 – PREVENTATIVE AND CONTROL MEASURES

Respiratory Protection: Normally not required. If inhalation of concentrated product mist or spray is likely, use a NIOSH approved dust/mist respirator.
Ventilation: Good general ventilation or local exhaust ventilation for spraying and misting in confined areas.
Protective Gloves: Use rubber or plastic gloves when handling concentrate.
Eye Protection: Wear chemical goggles or safety goggles when handling concentrated product.
Protective Clothing and Equipment: Long sleeve coveralls. Eye wash recommended in the immediate work area.
Storage and Handling Procedures: Use good industrial hygiene. Do not get in eyes. Avoid contact with skin and clothing. Avoid breathing sprays or mists. Store in a cool, dry place away from incompatibles. Keep container closed when not in use. Do not mix with any other chemicals. Store at temperatures below 30°C (86°F) and keep from freezing.
Disposal Procedures for Spills or Leaks: Wear protective equipment. Dike and contain large spills. Pump spills into an approved waste container. For small spills, soak up with a suitable absorbent such as clay, soil or commercially available absorbents, and then dispose of into an approved waste container. Keep away from sewers and out of natural waters.
Waste Disposal Method: Haul absorbed material to suitable waste disposal site. Dispose of in accordance with all local, provincial or federal regulations.
Special Shipping Information: Store at temperature below 30°C (86°F). Keep from freezing.

SECTION 8 – EMERGENCY FIRST AID PROCEDURES

First Aid:
If swallowed, give plenty of clean water to drink to dilute product. Do not induce vomiting. Call a Physician. In case of contact with eyes, flush with clean water for 15 minutes. Get medical attention. For contact with skin, wash with clean water and rinse well. If irritation occurs or persists, get medical attention.

PREPARATION DATA

PREPARED BY: Technical Service / Regulatory Division PHONE: 604-526-5655 LAST UPDATE: 07/04/11
THE INFORMATION PROVIDED IN THIS MATERIAL SAFETY DATA SHEET HAS BEEN OBTAINED FROM CURRENT SOURCES AND IS BELIEVED TO BE RELIABLE