



TOUGH PRIME

MSDS No.:6050, 6055

MSDS Preparation Date: January 8, 2010

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MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name : **TOUGH PRIME**
 Tough Prime White (No.6050)
 Tough Prime Black (No.6055)

Product Use : Primers

Chemical Family : Mixture

Supplier's name and address:
Rosco Laboratories Inc.
 52 Harbor View Avenue
 Stamford, CT, United States
 06902

24 Hr. Emergency Tel # : (800) 424-9300

HMIS Rating : * - Chronic hazard 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe

Health: * 1 *Flammability:* 0 *Reactivity:* 0

WHMIS Classes:



POISON



TOXIC

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredients</u>	<u>CAS #</u>	<u>% (weight)</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
			<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
Tough Prime Black						
2-Butoxyethanol (Glycol Ether)	111-76-2	1.0 - 5.0	20 ppm	N/Av	50 ppm (240 mg/m3) (skin)	N/Av
Carbon black	1333-86-4	1.0 - 5.0	3.5 mg/m3	N/Av	3.5 mg/m3	N/Av
Tough Prime White						
2-Butoxyethanol (Glycol Ether)	111-76-2	1.0 - 5.0	20 ppm	N/Av	50 ppm (240 mg/m3) (skin)	N/Av
Zinc oxide fume	1314-13-2	1.0 - 5.0	2 mg/m3	10 mg/m3	15 mg/m3	N/Av

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

White liquid. (Tough Prime White); Black liquid. (Tough Prime Black). Slight odor. Irritating to eyes, respiratory system and skin. Contains material which may be carcinogenic.

*****POTENTIAL HEALTH EFFECTS*****

Target organs : None reported by the manufacturer.

Routes of exposure : *Inhalation:* YES *Skin Absorption:* YES *Skin & Eyes:* YES *Ingestion:* YES

Potential acute health effects :



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- Eyes:* Causes eye irritation. Prolonged or repeated exposure may be harmful to health. May cause conjunctivitis, irritation, and inflammation of mucous membranes. May cause burning sensation, redness and tearing (watering). Possible severe irritation.
- Skin:* Irritating to skin. Prolonged or repeated exposure may be harmful to health. Possible irritation, defatting or dermatitis (rash). Components of the product may be absorbed into the body through the skin. May cause central nervous system depression.
- Inhalation:* Can cause irritation of the respiratory tract. Prolonged exposure to vapors may be harmful to health. If higher concentrations are inhaled, additional symptoms may include coughing, shortness of breath, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. May cause mucous membrane irritation. Other adverse effects : Asphyxia. Severe lung irritation or lung damage, loss of appetite. Sanding and grinding dusts may be harmful if inhaled. Contains particles which may cause lung damage if inhaled in large quantities.
- Ingestion:* Lung aspiration hazard. This product may be aspirated (inhaled) into the lungs during ingestion. May cause lung inflammation. Harmful: may cause lung damage if swallowed. May cause mucous membrane irritation. Ingestion may cause symptoms similar to inhalation. May cause gastrointestinal irritation. Gastrointestinal irritation may include abdominal pain, nausea, diarrhea and vomiting. Other adverse effects : intoxication.

Potential chronic health effects

- : Prolonged skin contact may defat the skin and produce dermatitis. Harmful by skin absorption. May cause central nervous system depression. Prolonged inhalation of vapors may cause lung damage, including chronic bronchitis.

Medical conditions aggravated by overexposure

- : Pre-existing skin, respiratory, renal or nervous system disorders.

Additional health hazards

- : None reported by the manufacturer.

Potential environmental effects

- : None reported by the manufacturer.

SECTION 4 - FIRST AID MEASURES

- Inhalation** : If breathed in, move person into fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Seek immediate medical attention/advice.
- Skin contact** : Flush with plenty of water. Wash off with soap and plenty of water. Remove and wash contaminated clothing before re-use. If irritation persists, seek prompt medical attention.
- Eye contact** : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If irritation persists, seek prompt medical attention.
- Ingestion** : Call a physician or Poison Control Centre immediately. Do NOT induce vomiting. Guard against aspiration into lungs by having the individual turn on their left side.
- Notes For Physician** : Treat symptomatically.

SECTION 5 - FIRE FIGHTING MEASURES

Fire hazards/conditions of flammability

- : Not flammable under normal conditions of handling. This product will not burn, due to its water content.

Flammability classification (OSHA 29 CFR 1910.1200)

- : OSHA Combustible Liquid IIIB.

Flash point

- : Not applicable.

Flash point Method

- : Not applicable.

Auto-ignition temperature : Not available.

Lower flammable limit (% by vol.)

- : Not applicable.

Upper flammable limit (% by vol.)

- : Not applicable.

Suitable extinguishing media

- : Dry chemical, foam, carbon dioxide and water fog.

Explosion data: Sensitivity to mechanical impact / static discharge

- : Not expected to be sensitive to mechanical impact or static discharge.

Special fire-fighting procedures/equipment

- : Firefighters should wear an approved full-face, self-contained breathing apparatus (SCBA) and impervious clothing. Water may be ineffective on fire, but may be helpful in cooling unburned containers. Do not use a solid water stream as it may scatter and spread fire. If water is used, fog nozzles are preferable.



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Hazardous combustion products

: Oxides of carbon, nitrogen, and sulphur. Oxygen. Acrid fumes, toxic gases.

Oxidizing properties

: None reported by the manufacturer.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions

: All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Avoid breathing vapors. Wear resistant clothing and boots.

Environmental precautions

: Prevent product from entering drains, sewers, waterways and soil.

Spill response/cleanup

: Eliminate all ignition sources if safe to do so. Ventilate area of release. Use only non-sparking tools and equipment in the clean-up process. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13).

Containment

: Should not be released into the environment. Recover free liquid or cover with inert absorbent material and place into appropriate container for disposal.

SECTION 7 - HANDLING AND STORAGE

Safe Handling procedures

: Use with adequate ventilation. Avoid breathing vapor or mist. Avoid contact with skin and eyes. Wash hands thoroughly after using this product, and before eating, drinking or smoking. Avoid breathing of dust created by cutting, sanding, or grinding. Sanding and grinding dusts may be harmful if inhaled. Do not re-use empty containers. Do not puncture container. Keep in properly labeled containers. Wear suitable protective equipment. Do not ingest.

Storage requirements

: Store in a cool, dry, well-ventilated area. Keep away from excessive heat, open flames, sparks and other possible sources of ignition. Do not freeze. Keep container tightly closed when not in use. Store in upright position only. Keep out of the reach of children. Empty product containers may contain hazardous product residue.

Incompatible materials

: Oxidizing agents. Acids and bases. Aluminum. Ammonium salts. Other: magnesium, chlorinated rubber.

Special packaging materials

: Liquid-proof glass, plastic or non-corrodible metal containers are recommended.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

Ventilation and engineering measures

: Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits. Use explosion-proof equipment. Discharge exhaust only in area away from ignition sources.

Respiratory protection

: Use NIOSH/MSHA approved full-face respirator with an organic vapor cartridge if the recommended exposure limit is exceeded. In order to avoid inhalation of spray-mist and sanding dust, all spraying and sanding must be done wearing adequate respirator. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02.

Skin protection

: Gloves impervious to the material are recommended.

Eye / face protection

: Safety glasses with side-shields or chemical splash goggles.

Other protective equipment

: Emergency showers and eyewash facilities should be nearby. Depending on conditions of use, safety shoes and additional protective clothing may also be necessary.

General hygiene considerations

: Wash hands thoroughly after using this product, and before eating, drinking or smoking. Wash hands before breaks and at the end of workday.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state

: Liquid.

Appearance

: White liquid. (Tough Prime White)
Black liquid. (Tough Prime Black)



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Odor	: Slight odor.	Odor threshold	: 2-butoxyethanol: 0.10 ppm (detectable) ; 0.35 ppm (recognizable)
pH	: Not available.	Specific gravity	: 1.28 (Tough Prime White) 1.09 (Tough Prime Black)
Boiling point	: 168.3 °C	Coefficient of water/oil distribution	: Not available.
Melting/Freezing point	: Not available.	Solubility in water	: Soluble
Vapor pressure (mmHg @ 20° C / 68° F)	: 0.6 - 874	Evaporation rate (n-Butyl acetate = 1)	: Slower than n-butyl acetate
Vapor density (Air = 1)	: Heavier than air.	Volatiles (% by weight)	: 46.6 (Tough Prime White) 72.0 (Tough Prime Black)
Volatile organic Compounds (VOC's) (lbs/gal;g/l)	: Tough Prime White : 0.89/107.44 Tough Prime Black:1.28/154.32		
Viscosity	: Not available.		
Special Remarks On Fire Hazards			
	: Not flammable under normal conditions of use. This product will not burn, due to its water content. May spatter if the temperature exceeds the boiling point. Vapors may irritate eyes. May irritate skin.		

SECTION 10 - REACTIVITY AND STABILITY DATA

Stability and reactivity : Stable under normal conditions.

Hazardous polymerization : Will not occur.

Conditions to avoid : High temperatures. Keep away from excessive heat, open flames, sparks and other possible sources of ignition. Oxidizing agents. Do not freeze.

Materials To Avoid And Incompatibility
: See Section 7 (Handling and Storage) section for further details.

Hazardous decomposition products
: See hazardous combustion products.

SECTION 11 - TOXICOLOGICAL INFORMATION

<u>Ingredients</u>	<u>LC₅₀(4hr)</u> <u>inh, rat</u>	<u>LD₅₀</u>	
		<u>oral</u>	<u>dermal</u>
Tough Prime Black			
2-Butoxyethanol (Glycol Ether)	450 ppm/4H (rat)	470 mg/kg (rat); 320 mg/kg (rabbit)	400 mg/kg (rabbit)
Carbon black	6750 mg/m3/4H (rat)	>15,400 mg/kg (rat)	>3000 mg/kg (rabbit)
Tough Prime White			
2-Butoxyethanol (Glycol Ether)	450 ppm/4H (rat)	470 mg/kg (rat); 320 mg/kg (rabbit)	400 mg/kg (rabbit)
Zinc oxide fume	N/Av	> 5000 mg/kg (rat); 7950 mg/kg (mouse)	N/Av

Toxicological data : Low order of toxicity for normal industrial handling.

Carcinogenic status : Contains 2-Butoxyethanol. 2-Butoxyethanol is classified as a confirmed animal carcinogen by ACGIH (Group A3).
Tough Prime Black: This product contains Carbon black, an IARC Group 2B carcinogen.

Reproductive effects : Not expected to have other reproductive effects.

Teratogenicity : Not expected to be a teratogen.



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- Mutagenicity** : Tough Prime Black: An ingredient in this product may cause mutagenic effects based on studies in laboratory animals.
- Reproductive Effects** : Not expected to have other reproductive effects.
- Irritancy** : Eyes, skin, respiratory system and digestive system.
- Sensitization to material** : Not expected to be a sensitizer.
- Synergistic materials** : None reported by the manufacturer.

SECTION 12 - ECOLOGICAL INFORMATION

- Environmental effects** : None known or reported by the manufacturer.
- Important environmental characteristics** : None known or reported by the manufacturer.
- Ecotoxicological** : No data is available on the product itself.

SECTION 13 - DISPOSAL CONSIDERATIONS

- Handling for Disposal** : See Section 7 (Handling and Storage) section for further details.
- Methods of Disposal** : Dispose in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules. Do not puncture or incinerate. Contact waste disposal services.

SECTION 14 - TRANSPORTATION INFORMATION

Regulatory Information	UN Number	Shipping Name	Class	Packing Group	Label
TDG	None	Not regulated.	Not regulated	-None-	
TDG Additional information	None.				
49CFR/DOT	None	Not regulated.	Not regulated	-None-	
49CFR/DOT Additional information	None.				
ICAO/IATA	None	Not regulated.	Not regulated	-None-	
ICAO/IATA Additional information	None.				
IMDG	None	Not regulated.	Not regulated	-None-	
IMDG Additional information	None.				

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

All ingredients are listed on the TSCA Inventory, or are exempted materials.
 SARA Section 313: This material is not subject to SARA notification requirements, since it does not contain any Toxic Chemical Constituents above de minimus concentrations.



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US State Right to Know Laws:

Tough Prime Black: This product contains carbon black, which is known by the state of California to cause cancer.



Canadian Regulations:

Canadian Environmental Protection Act (CEPA): All ingredients are listed on the DSL, or are exempted materials.
Canadian WHMIS Classification: D1A, D2A, D2B.

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

SECTION 16 - OTHER INFORMATION

- Legend** :
- ACGIH: American Conference of Governmental Industrial Hygienists
 - IARC: International Agency for Research on Cancer
 - N/Ap: not applicable
 - N/Av: not available
 - NIOSH: National Institute of Occupational Safety and Health
 - NTP: National Toxicology Program
 - OSHA: Occupational Safety and Health Administration
- References** :
- Information obtained from sources including original supplier's Material Safety Data Sheet, and references including RTECS and CCOHS Cheminfo.

<p>Prepared for: Rosco Laboratories Inc. 52 Harbor View Avenue Stamford, CT, USA, 06902 Phone: (203) 708 8900 http://http://www.rosco.com/</p>	
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