

**MATERIAL SAFETY DATA SHEET**

No. TIAG- 184

TOYO INK America, LLC.  
710 West Belden Avenue  
Addison, Illinois 60101  
PHONE# 630-930-5060

HAZARD RATING

Minimal ***	0	HEALTH	1
Slight *****	1	FLAMMABILITY	1
Moderate ***	2	REACTIVITY	0
Serious ****	3	PAGE	1/2
Severe *****	4	DATE	10/1/2006

SECTION I

PRODUCT NAME	<b>Scuff Tuff SG Process series</b>	CHEMICAL NAME & SYNONYMS	Compound
PRODUCT CLASS	Sheetfed Ink	EMERGENCY PHONE NO. CHEMTREC	1-800-424-9300

SECTION II -- INGREDIENTS

HAZARDOUS INGREDIENTS	CAS No.	%	OSHA	ACGIH
Carbon Black (Black)	1333-86-4	18-20	3.5 mg/m3	3.5 mg/m3
*Manganees Tallate	8030-70-4	2-4	5mg/m3 **	0.2mg/m3 **
*Cobalt Tallate	61789-52-4	2-4	0.1mg/m3 +	0.02mg/m3

\*\* For Manganees, fume as Mn  
+ For metal dust and fume, as Co

SECTION 313 SUPPLIER NOTIFICATION

This product does contain toxic chemicals(\* marked) subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right - To - Know Act of 1986 and of 40 CFR 372.

SECTION III -- PHYSICAL DATA

BOILING POINT	NA	VOLATILE	see following page	SPECIFIC GRAVITY (25°C)	1.0-1.1
VAPOR PRESSURE	NA	MELTING POINT	NA	SOLUBILITY IN WATER	Insoluble
APPEARANCE AND ODOR	Paste				

SECTION IV -- FIRE & EXPLOSION DATA

FLASH POINT	110°C or greater	FLAMMABLE	NA
EXTINGUISHING MEDIA	CO2 , Foam , Dry Powder		
SPECIAL FIRE FIGHTING PROCEDURE	Protective clothing and self-contained breathing apparatus should be worn in chemical fires.		
UNUSUAL FIRE AND EXPLOSION HAZARD	None		

SECTION V -- REACTIVITY

STABILITY	Stable	POLYMERIZATION	Not occur
INCOMPATIBILITY (MATERIAL TO AVOID)	None	HAZARDOUS DECOMPOSITION OR BY-PRODUCT	None
CONDITIONS TO AVOID	Extremely high temperature		

SECTION VI -- HEALTH HAZARD DATA

ROUTE OF ENTRY	INHALATION	SKIN	INGESTION	HEALTH HAZARD DATA
	X	X	X	Unknown
SIGNS AND SYMPTOMS OF EXPOSURE				
Contact with eyes may result in irritation.				
Prolonged skin contact may cause slight skin irritation.				
Ingestion may result in gastric disturbances.				
Inhalation of mists or aerosols may cause irritation to respiratory tract.				
CARCINOGENICITY	NTP : <u>No</u>	IARC : <u>Yes</u>	OSHA <u>No</u>	
This product is not considered as a known human carcinogen. But cobalt and cobalt compounds are classified as substances which are possibly carcinogenic to humans (IARC Group 2B). For use this product, handle with care and avoid exposure.				
EMERGENCY AND FIRST AID				
EYE	Flush with water for 15 minutes. If irritation persists, call physician.			
SKIN	Wash with soap and water. If irritation persists, call physician.			
INGESTION	Dilute with two glasses of water, do not induce vomiting, and consult a physician or poison control center, treat symptomatically.			
INHALATION	Move to fresh air area. Call physician.			

SECTION VII - - PRECAUTIONS FOR SAFE HANDLING

<p><b>STEPS TO BE TAKEN IN CASE MATERIALS ARE RELEASED OR SPILLED</b>                  Prevent spread or entry to sewer. Remove ignition sources. Absorb on inert material and scoop up into an appropriate container.</p> <p><b>WASTE DISPOSAL METHOD</b>                  Dispose in accordance with local, state and federal regulations.</p> <p><b>PRECAUTIONS FOR HANDLING AND STORAGE</b>                  Store away from fire. Store in accordance with OSHA 1910.106. For industrial use only</p>
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SECTION VIII - - CONTROL MEASURES

<b>RESPIRATORY PROTECTION (SPECIFY)</b> None required in normal handling	<b>VENTILATION</b> Recommended
<b>EYE PROTECTION</b> Desirable	<b>PROTECTIVE GLOVES</b> Desirable
	<b>OTHER PROTECTIVE EQUIPMENT</b> None

SECTION IX - - SUPPLIER

TOYO INK America, LLC.

CA	Branch	11190 Valley View St. Cypress, CA 90630	PHONE# : 714-899-2388
IL	Branch	710 West Belden Avenue Addison, Il. 60101	PHONE# : 630-930-5060
NJ	Branch	71 Kingsland Avenue Clifton, NJ 07014	PHONE# : 973-777-6015
GA	Branch	3140 Moon Station Rd. Kennesaw, GA 30144	PHONE# : 770-429-8000

INK NAME & V.O.C. DATA

No	INK NAME	V.O.C. (%)	V.O.C. (g/l)	V.O.C. (lb/gal)
1	Scuff Tuff Yellow SG	6	60	0.50
2	Scuff Tuff Magenta SG	6	60	0.50
3	Scuff Tuff Cyan SG	6	60	0.50
4	Scuff Tuff Black SG	10	100	0.83