MOSSTYPE
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Material Safety Data Sheet
Proofing Inks

Section 1 General Information

Manufacturer
Mosstype Corporation
150 Franklin Turnpike
Waldwick, NJ 07463

Emergency Telephone Number
1 800 255 3924 (Chem-Tel)
Technical & MSDS Information
201-444-8000
Preparation Date
4/2011

Applicable Products:	Product Identification
Proofing Ink - Black	7640 0402 25
Blue	7640 0402 26
Red	7640 0402 28
Yellow	7640 0402 29
White	7640 0400 30

HMIS Rating:
Health = 1 Fire = 1 Reactivity = 0 Protective Equipment = B

Section 2 Information on Hazardous Ingredients

Chemical Name	CAS #	Weight%	OSHA Pel	ACGIH TLV
Propylene Glycol (1,2-Propanediol)	57-55-6	Regular set 0-5	No PEL established	ND
Monoethanolamine	141-43-5	1 – 7	3 ppm TWA;6mg/m3 TWA	3 ppm TWA; 7.5 mg/m3 TWA

Non-Dye Black inks contain carbon black, which has been reclassified by IARC as a Class 2B carcinogen. Refer to Section 3.

Section 3 Hazards Identification

Routes of Entry: Ingestion. Skin contact, eye contact. Inhalation.
Aggravated Medical Conditions: No medical conditions affected by exposure.

Immediate (Acute) Health Effects:

Eye Contact: Can cause minor irritation, tearing and reddening.
Skin Contact: No hazard in normal industrial use, however may cause minor skin irritation.
Inhalation: Can cause minor respiratory irritation, dizziness, weakness, fatigue, nausea and headache.
Ingestion: Not expected to be a hazard in normal industrial use, however avoid ingestion of any industrial product.

Long-Term (Chronic) Health Effects:

Eye Contact: Upon prolonged or repeated contact, can cause minor irritation, tearing, and reddening.
Skin Contact: Upon prolonged or repeated contact, can cause minor skin irritation.
Inhalation: Upon prolonged and/or repeated exposure, may cause minor respiratory irritation.

Skin Absorption: No absorption hazard in normal industrial use.

Carcinogenicity/Mutagenicity: None of the substances have been shown to cause cancer in long term animal studies. Not a carcinogen according to NTP, IARC, or OSHA. No data available to indicate product or any components present at greater than 0.1% is mutagenic or genotoxic.

Reproductive Toxicity: No data available to indicate product or any components present at greater than 0.1% may cause birth defects.

NIOSH Listed Target Organs for Hazardous Components:

Carbon Black	1333-86-4	Respiratory system, eyes, lymphatic cancer (in dust form only)
Ethanolamine	141-43-5	Skin, eyes, respiratory system, CNS.

HMIS Ratings: Health = 1 Fire = 1 Reactivity = 0 Protective Equipment = B

Section 5 First Aid

Eyes: Flush eyes for 20 minutes. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Seek medical advice if symptoms persist.

Inhalation: This material does not present a hazard if inhaled. Remove individual to fresh air after an airborne exposure if any symptoms develop, as a precautionary measure.

Skin Contact: Wash with soap and water. Get medical attention if irritation develops or persists.

Ingestion: Minimal risk of harm if swallowed. Do not induce vomiting. Seek medical attention if symptoms develop. Provide medical care provider with this MSDS.

Section 6 Fire Fighting Measures

Flammability Summary: **Combustible at elevated temperatures. NFPA Class IIIB Liquid.**

Flash Point: Flash point is >100 deg. C (212 deg. F).

Exposure limits: 2.6 Lower 12.5 Upper

Fire Hazards: Material may be ignited only if preheated to temperatures above the high flash point, for example in a fire. Material will burn in a fire.

Extinguishing Media: Use alcohol resistant foam, carbon dioxide, or dry chemical when fighting fires. Water may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the surface of the fire. Do not direct a stream of water into the hot burning liquid.

Fire Fighting Instructions: Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment.

Section 7 Accidental Release Measures

Spill Health Precautions: Avoid unnecessary contact and reference the health effects listed in Section 3. Follow personal protective equipment recommendations in Section 8.

Spill Mitigation Procedures

General Methods:	Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Dike liquid materials with a suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.
Water Spills:	Avoid runoff into storm sewers and ditches that lead to waterways.
Land Spills:	Absorb the liquid and scrub the area with detergent and water.

Section 7 Handling and Storage

Handling:	Mildly irritating material. Avoid unnecessary exposure. As with all chemicals, good industrial hygiene practices should be followed when handling this material. Follow all protective equipment recommendations provided in Section 8.
Storage:	Store in a cool dry place. Isolate from incompatible materials and conditions. Store in tightly closed containers. Keep container closed when not in use.

Section 8 Engineering Controls and Personal Protective Equipment

Engineering Controls:	General room ventilation may be required to maintain operator comfort under normal conditions of use.

Protective Equipment

Respiratory:	A respirator is not required under normal use conditions. Provide general room exhaust ventilation if symptoms of overexposure occur as explained in Section 3. Follow a respiratory protection program that meets 29 CFR 1910.134 and ANSI Z88.2 requirements whenever work place conditions warrant the use of a respirator.
Eyes:	Wear safety glasses when handling this product to avoid splashing or misting. Wear chemical splash goggles if splashing or high pressure system is used.
Skin:	Not normally considered a skin hazard, however practice good personal hygiene by avoiding unnecessary skin contact. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Section 9 Physical Data

Physical State & Color:	Depends upon product selection. The color additives do not affect product hazards. Liquid.
Odor:	Mild

Specific Gravity, Density, Volatile Percent, VOC Percent, and Coating VOC values are given as ranges representative of the base colors for this product line. Physical data for a specific formulation may be derived from the CPDS (Certified Product Data Sheet). Customers may also request an itemized report of regulated constituents based on sales history for a given period.

Boiling Point:	100-187 deg. C	212 – 369 deg. F
Specific Gravity/Density:	Regular set: 1.08 1.8; Fast set 1.02 1.29 Regular set: 8.99 – 15.65; fast set: 8.49 -10.74	

Volatile Percent: Regular set: 5.60-24356; fast set:43.3-63.6 weight %
Regular set: 5.69-33.66; Fast set: 50.14-62.96 Volume %.

VOC Percent : Regular set: 2.35-8.37; fast set: 33.59-59.7 weight %
Regular set: 3.60-1034; fast set: 35.52-58.98 Volume %

Coating VOC: Regular set: 0.34 – 0.93; fast set: 4.01-5.28 lb/gal
Regular set: 41-112; fast set: 481-633 g/L

Section 10 Stability and Reactivity

Stability Information: Stable under normal conditions.

Conditions to Avoid: Temperatures above the high flash point of this combustible material in combination with sparks, open flames, or other sources of ignition. Contamination.

Section 11 Toxicological Information

Chemical Name	CAS Number	LD50/LC50
Carbon Black	1333-86-4	Oral LD50 Rat: >15400 mg/kg; Dermal LD50 Rabbit: >3 gm/kg
1,2 Propanediol	57-55-6	Oral LD50 Rat:> 20 mg/kg; Dermal LD50 Rabbit: 20.8 mg/kg; Oral LD50 Mouse: 22 mg/kg
Ethanol, 2-amino-	141-43-5	Oral LD50 Rat: 1720 mg/kg; Dermal LD50 Rabbit: 1ml/kg; Oral LD50 Mouse: 700 mg/kg

Section 12 Ecological Information

Overview (for ingredients): Keep out of waterways.

Section 13 Disposal Considerations

Spent Material Characteristics: Spent or discarded material is not expected to be a hazardous waste. The waste may be a “special” waste.

Disposal Methods: Clean up and dispose of according to federal, state, and local environmental regulations.

Potential EPA Waste Codes: Unknown.

Components Subject to US EPA Land Disposal Restrictions: No chemicals subject to land disposal restrictions.

Section 14 Transportation Information

Proper Shipping Name:	Hazard Class	UN/NA Number	Packing Group	ERG Number	Subsidiary Risks
DOT & IATA: Not Restricted	N/AP	N/AP	N/AP	N/AP	

Section 15 Regulatory Information

This MSDS covers multiple products as described by Section 1. The regulatory information listed below is representative of an average amount that could be expected within the product line. Disclosure of a specific chemical does not indicate that the chemical is present in all formulations covered by this Generic MSDS, but rather that it is present in one or more formulations. Regulatory information for a specific formulation may be derived from the CPDS (Certified Product Data Sheet). Customers may also request an itemized report of regulated constituents based on sales history for a given period.

Toxic Substances Control Act (TSCA): All components in this product are on the TSCA Inventory.

SARA Title III, Section 313; Toxic Chemicals	**CASRN:**	**Weight %:**
No 313-listed chemicals in this product		

Red may contain Barium compounds from the pigment.

Clean Air Act; Hazardous Air Pollutants:	**CASRN:**	**Weight %**
Glycol Ethers	111-90-0	0.00-0.7

California; Proposition 65:	**CASRN:**	**Weight %**

Toxic Substances Control Act (TSCA); Section 12(b)	**CASRN:**
No TSCA 12(b) listed chemicals present.	

Section 16 Additional Information

Disclaimer: The information provided herein is presented in good faith and complies with the OSHA Hazard Communication Standard, 29 CFR 1910.1200(g). Nothing contained herein constitutes a specification nor does it guarantee warranty for said product. HMIS ratings are provided only as a suggestion, and should be used in conjunction with the complete MSDS information presented herein.