

Copying and/or downloading of this information for the purpose of properly utilizing Mosstype Corporation product is allowed provided that (1) the information is copied in full with no changes unless prior agreement is obtained from Mosstype Corporation product, & (2) neither the copy nor the original is resold or otherwise distributed with intention of earning profit thereon.

Safety Data Sheet Proofing Ink Black (7640 0403 25)

Page 1 of 9

revised 01/25/16

Section 1 Identification

Manufacturer

Mosstype Corporation
150 Franklin Turnpike
Waldwick, NJ 07463
201-444-8000

Emergency Telephone Number

1-800-255-3924 (Chem-Tel)

Technical & SDS Information

201-444-8000

Preparation Date

revised 01/25/16

Recommended use: Proofing Print Plates

Product Name:

Proofing Ink - Black

Product Identification

7640 0403 25

Section 2 Hazards Identification

2.1 Classification of the substance or mixture

Acute Tox. 5; H303
Skin Irrit. 2; H315
Eye Irrit. 2; H319

May be harmful if swallowed. (Not adopted by US OSHA)
Causes skin irritation.
Causes serious eye irritation.

STOT RE 2; H373

May cause damage to organs through prolonged or repeated
Exposure. Specific Target Organs: (kidneys)

2.2 . Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows:

**WARNING**

H303 May be harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

Prevention:

P260 Do not breathe mist/vapors/spray.

P264 Wash thoroughly after handling.

P280 Wear protective gloves/ eye protection / face protection.

Response:

P302+352 IF ON SKIN: Wash with plenty of soap and water.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

P312 Call a POISON CENTER or doctor / physician if you feel unwell.

P314 Get Medical advice / attention if you feel unwell.

P321 Specific treatment (see information on this label.)

P332+313 If skin irritation occurs: Get medical advice/ attention.

P337+313 If eye irritation persists: Get medical advice / attention.

P362 Take off contaminated clothing and wash before reuse.

Storage:

No GHS storage statements.

Disposal:

No GHS disposal statements.

Section 3 Composition/ Information on Ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/ Chemical Designations	Weight %	GHS Classification	Notes
Glycerol CAS Number: 0000056-81-5	25-50	Not Classified	[1] [2]
Calcium carbonate CAS Number: 0001317-65-3	10-25	Not Classified	[1] [2]
Ethylene glycol CAS Number: 0000107-21-1	5-10	Acute Tox. 4;H302 STOT RE 2;H373	[1] [2]
Diethylene glycol CAS Number: 0000111-46-6	1-5	Acute Tox.4;H302	[1]
Ethanolamine CAS Number: 0000141-43-5	1-5	Acute Tox.4;H332 Acute Tox. 4;H312 Acute Tox. 4;H302 Skin Corr. 1B;H314	[1] [2]

In accordance with paragraph(i) of §1910.1200, the specific chemical identity and/or exact percentage(concentration) of composition has been withheld as a trade secret.

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT- substance or vPvB-substance.

* The full texts of the phrases are shown in Section 16.

Section 4 First Aid Measures

4.1 Description of first aid measures

General

In all cases of doubt, or when symptoms persist, seek medical attention.
Never give anything by mouth to an unconscious person.

Inhalation

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in a recovery position and obtain immediate medical attention. Give nothing by mouth.

Eyes	Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.
Skin	Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognized skin cleanser.
Ingestion	If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Overview	Inhalation of vapors may cause irritation of the nasal passages. Contact with the eyes causes irritation and redness. Skin irritation may develop. Repeated and/or prolonged contact with the skin may cause skin irritation and/or dermatitis. Warning: This product contains in trace amounts the following chemicals known to the state of California to cause cancer. Nickel Cobalt Metal Powder See section 2 for further details.
-----------------	--

Eyes	Causes serious eye irritation.
Skin	Causes skin irritation.
Ingestion	May be harmful if swallowed.

Section 5 Fire-Fighting Measures

5.1 Extinguishing media

Use dry chemicals; CO₂: water spray or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture

Hazardous decomposition: No hazardous decomposition data available.

Do not breathe mist / vapors/spray.

5.3 Advice for fire-fighters

Use water spray to cool unopened containers. Excessive heat may cause closed containers to explode. Remain upwind and avoid breathing smoke.

Fire fighters and others who may be exposed to the products of combustion should be equipped with NIOSH approved positive pressure self-contained breathing apparatus (SCBA) and full protective clothing.

ERG Guide No. ---

Section 6 Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

6.2 Environmental precautions

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3 Methods and material for containment and cleaning up

Stop discharge and contain spill using a dike or barrier. Use an absorbent such as Fuller's earth, clay or other appropriate material. DO NOT flush to sewer, stream or other bodies of water unless authorized by Government Official.

Section 7 Handling and Storage

7.1 Precautions for safe handling

This container is hazardous when empty. DO NOT use heat, sparks, open flames, torches, or cigarettes on or near empty container. Empty containers can retain product residues. DO NOT flush contents or rinsed contents down a sewer or drainage. DO NOT reuse empty container for food, clothing, or products for human or animal consumption or where skin contact may occur. See section 2 for further details – Prevention.

7.2 Conditions for safe storage, including any incompatibilities

Handle containers carefully to prevent damage and spillage. Store in cool, dry ventilated area. Avoid excessive heat. Always keep containers tightly closed when not in use. Wear approved eye goggles and gloves when handling. Incompatible materials: Avoid contamination with strong oxidizing agents and acids. Do not mix contents with other materials without first consulting manufacturer. See section 2 for further details – storage.

7.3 Specific end use(s)

No data available.

Section 8 Exposure Controls/ Personal Protection

8.1 Control parameters

Exposure

<u>Cas no.</u>	<u>Ingredient</u>	<u>Source</u>	<u>Value</u>
0000056-81-5	Glycerol	OSHA ACGIH NIOSH Supplier	TWA 15 mg/m3 (total dust)TWA 5mg/m3(resp) TWA: 3mg/m3(respirable) 10 mg/m3(mist) Not established RELs No Established Limit
0000107-21-1	Ethylene glycol	OSHA ACGIH NIOSH Supplier	No Established Limit TWA: 10 mg/m3(Particulate) Ceiling: 100 mg/m3(Aerosol) 50ppm (Vapor) STEL: 20 mg/m3 (Particulate) No established RELs No Established Limit
0000111-46-6	Diethylene glycol	OSHA ACGIH NIOSH Supplier	No Established Limit No Established Limit No Established Limit No Established Limit
0000141-43-5	Ethanolamine	OSHA ACGIH NIOSH Supplier	TWA 3 ppm (6 mg/m3) TWA 3 ppm STEL: 6 ppm TWA 3 ppm (8 mg/m3) ST 6 ppm (15 mg/m3) No Established Limit
0001317-65-3	Calcium carbonate	OSHA ACGIH NIOSH Supplier	TWA 15 mg/m3(total) TWA 5 mg/m3(resp) TWA 10 mg/m3 Ceiling: 20 mg/m3 TWA 10 mg/m3(total) TWA 5 mg/m3(resp) No Established Limit

Carcinogen Data

<u>Cas no.</u>	<u>Ingredient</u>	<u>Source</u>	<u>Value</u>
0000056-81-5	Glycerol	OSHA NTP IARC	Select Carcinogen: No Known: No; Suspected: No Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No
0000107-21-1	Ethylene Glycol	OSHA NTP IARC	Select Carcinogen: No Known: No; Suspected: No Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No
0000111-46-6	Diethylene Glycol	OSHA NTP IARC	Select Carcinogen: No Known: No; Suspected: No Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No
0000141-43-5	Ethanolamine	OSHA NTP IARC	Select Carcinogen: No Known: No; Suspected: No Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No
0001317-65-3	Calcium carbonate	OSHA NTP IARC	Select Carcinogen: No Known: No; Suspected: No Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No

8.2 Exposure controls

Respiratory

If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.

Eyes

Wear appropriate eye protection to minimize eye contact with material.

Skin

To minimize skin contact, wear non-absorbant, water repelling clothing and boots. Wear appropriate non-absorbant vinyl or rubber gloves to help prevent and minimize skin contact.

Engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

Other Work Practices

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details – Prevention.

Section 9

Physical and Chemical Properties

Appearance	Semi paste material solid
Odor	Ammonical
Odor threshold	Not determined
pH	Not measured
Melting point/freezing point	Not measured
Initial boiling point and boiling range	Unknown
Flash point	Unknown
Evaporation rate (Ether =1)	Slower than ether
Flammability (solid, gas)	Not applicable
Upper/lower flammability or explosive limits	Lower explosive limit: Not measured Upper explosive limit: Not measured
Vapor pressure (Pa)	Not measured
Vapor density	Heavier than air
Specific Gravity	(H2O = 1) 1.404
Solubility in Water	Soluble
Partition coefficient n-octanol/water (Log Kow)	Not measured
Auto-ignition temperature	Not measured

Decomposition temperature	Not measured
Viscosity (cSt)	Not measured
	Material V.O.C.: 1.8 lb/gl
	Coating V.O.C.: 2.96 lb/gl
	V.O.C. Grams/Liter: 216 g/l
Density	11.695 lb/gl

No other relevant information.

Section 10 Reactivity and Stability

10.1 Reactivity

Hazardous Polymerization will not occur.

10.2 Chemical stability

Stable under normal circumstances.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

No data available.

10.5 Incompatible materials

Avoid contamination with strong oxidizing agents and acids. Do not mix contents with other materials without first consulting manufacturer.

10.6 Hazardous decomposition products

No hazardous decomposition data available.

Section 11 Toxicological Information

Acute toxicity

Ingredient	Oral LD 50, mg/kg	Skin LD50 mg/kg	Inhalation Vapor LC50 mg/L/4hr	Inhalation Dust/Mist LC50 mg/L/4hr	Inhalation Gas LC50 ppm
Glycerol (56-81-5)	12,600.00, Rat Category: NA	10,000.00 Rabbit- Category: NA	no data available	no data available	no data available
Calcium carbonate (1317-65-3)	No data avail.	No data avail.	No data avail.	No data available	no data available
Ethylene glycol (107-21-1)	4,700.00, Rat- Category:5	10,626.00, Rabbit- Category: NA	no data avail.	No data available	no data available
Diethylene glycol (111-46-6)	12,565.00, Rat- Category: NA	11,890.00, Rabbit- Category:NA	no data avail.	No data available	no data available
Ethanolamine (141-43-5)	1,720.00, Rat- Category: 4	1,015.00, Rabbit – Category:4	no data avail.	No data available	no data available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the products ATE (Acute Toxicity Estimate).

<u>Classification</u>	<u>Category</u>	<u>Hazard Description</u>
Acute toxicity (oral)	5	May be harmful if swallowed. (Not adopted by US OSHA)
Acute toxicity (dermal)	--	Not applicable
Acute toxicity (inhalation)	--	Not applicable
Skin corrosion/irritation	2	Causes skin irritation
Serious eye damage/irritation	2	Causes serious eye irritation
Respiratory sensitization	--	Not applicable
Skin sensitization	--	Not applicable
Germ cell mutagenicity	--	Not applicable
Carcinogenicity	--	Not applicable
Reproductive toxicity	--	Not applicable
STOT – single exposure	--	Not applicable
STOT – repeated exposure	2	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	--	Not applicable

Section 12 Ecological Information

Toxicity

No additional information provided for this product. See Sections 3 for chemical specific data.

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Glycerol (56-81-5)	67,5000.00, Oncorhynchus mykiss	10,000.00, Daphnia magna	Not available
Calcium carbonate (1317-65-3)	Not available	Not available	Not available
Ethylene glycol (107-21-1)	8,050.00 Pimephales promelas	100.00, Crangon crangon	6500.00 (96hr), Selenastrum Capricornutum
Diethylene glycol (111-46-6)	32,000.00 Gambusia affinis	8,400.00, Daphnia magna	Not available
Ethanolamine (141-43-5)	150.00, Oncorhynchus mykiss	65.00, Daphnia magna	15.00 (72hr), Desmodesmus subspicatus

12.2 Persistence and degradability

There is no data available on the preparation itself.

12.3 Bioaccumulative potential

Not measured.

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6 Other adverse effects

No data available.

Section 13 Disposal Considerations

13.1 Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

Section 14		Transportation Information	
	DOT (Domestic Surface Transportation)	IMO/IMDG(Ocean Transportation)	ICAO/IATA
UN Number	Not applicable	Not regulated	Not regulated
UN proper shipping name	Not regulated	Not regulated	Not regulated
Transport hazard class	DOT Hazard Class: NA	IMDG: NA	Air Class: NA
Packing Group	Not applicable	Not applicable	Not applicable
Environmental hazards		IMDG: Marine pollutant: No	
Special precautions for user: No further information			

Section 15 **Regulatory Information**

Regulatory Overview The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

Toxic Substance Control Act (TSCA) All components of this material are either listed or exempt from listing on the TSCA Inventory.

WHMIS Classification D2B
US EPA Tier II Hazards

Fire: No
Sudden release of Pressure: No
Reactive: No
Immediate (Acute): Yes
Delayed (Chronic): Yes

EPCRA 311/312 Chemicals and RQs(lbs):

Ethylene glycol (5,000.00)

EPCRA 302 Extremely Hazardous:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 313 Toxic Chemicals:

(2-methoxymethylethoxy) propanol

Ethylene glycol

Proposition 65- Carcinogens (>0.0%)

Quartz

Proposition 65 – Developmental Toxins (>0.0%)

Ethylene glycol

Proposition 65 – Female Repro Toxins (>0.0%)

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 – Male Repro Toxins (>0.0%)

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

New Jersey RTK Substances (>1%)

Ethanolamine

Ethylene glycol

Glycerol

Calcium Carbonate

Pennsylvania RTK Substances (>1%)

Diethylene glycol

Ethanolamine

Ethylene glycol

Glycerol

Calcium carbonate

Section 16 **Other Information**

Every reasonable effort has been made to ensure that the safety information on this sheet is accurate. But because Mosstype has no control over the conditions under which the product will be used, liability is limited exclusively to replacement or refund of the purchase price of this product. Except as stated herein, there are no expressed or implied warranties of merchantability or fitness for a particular purpose. Mosstype assumes no liability for injury or incidental or consequential damages arising out of the storage handling, or use of this product. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H332 Harmful if inhaled.

H373 May cause damage to organs through prolonged or repeated exposure.