

Producer

Sigma Ink
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Responsible for Distribution

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1 IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Identification of the product: Viscous liquid.
Trade name: Sigma MP-203 HARDENER
Type of product: Ink Additive
Use: Industrial: screen printing. /pad printing.
Product code: Sigma MP-203 HARDENER.
Producer/Manufacturer: See address above.
Emergency phone: CHEMTREC (800-424-9300 within US)
Outside US (703-527-3887)

**2 COMPOSITION / INFORMATION ON INGREDIENTS**

This product is considered to be hazardous and contains hazardous components

Substance name	Value(s)	CAS No / EC No / EC Index	Symbol(s)	R-Phrase(s)
N-(3-(trimethoxysilyl)propyl) :	70 to 90 %	1760-24-3 / 217-164-6 /	-----	Xi 36/38-43
Ethylenediamine				
2-11-methoxylpropyl acetate	20-26%	108-65-6		
VOC(w%):	80			

3 HAZARDS IDENTIFICATION

Main hazards : May cause sensitization by skin contact.
Irritating to eyes and skin.

4 FIRST AID MEASURES

- Inhalation : If not breathing, give artificial respiration.
Remove victim to fresh air.
- Skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
- Eye contact : Seek medical advice.
In case of eye contact, immediately rinse with clean water for 10-15 minutes.
- Ingestion : If swallowed seek medical advice immediately and show this container or label.
DO NOT INDUCE VOMITING.
Rinse mouth.
Give water to drink.
Depending on condition of the victim : Obtain medical attention.

5 FIRE-FIGHTING MEASURES

Extinguishing media: Dry chemical.
Carbon dioxide.
Alcohol resistant foam.
- Not to be used : Water.
Special exposure hazards : When heated to decomposition, emits dangerous fumes.
Protection against fire : Wear self-contained breathing apparatus, rubber boots and thick rubber gloves.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions : Wear suitable protective clothing and gloves.
Environmental precautions : Prevent entry to sewers and public waters.
After spillage and/or leakage : Clean up any spills as soon as possible, using a non-flammable, absorbent material to collect it.

7 HANDLING AND STORAGE

General : Avoid all unnecessary exposure.
Store according to PGS 15.

Precautions in handling and storage : Good ventilation of the workplace required.
Take precautionary measures against static discharges.

Storage : Close cover tightly after use.
Keep away from food, drink and animal feeding stuffs

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.

- Hand protection : Nitrilrubber Gloves.

- Skin protection : Wear suitable protective clothing.

- Eye protection : Eye protection, including both chemical splash goggles and face shield, must be worn when possibility exists for eye contact due to spraying liquid or airborne particles.

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state : Liquid.

Color : Clear.

Odor : Characteristic.

pH value : 10.2

Initial boiling point [°C] : 74

Final boiling point [°C] : 101

Density : 1.03

Flash point [°C] : 90

10 STABILITY AND REACTIVITY

Hazardous decomposition products : On exposure to high temperature, may decompose, releasing toxic/flammable vapors.

Materials to avoid : Strong oxidizers.
Strong acids.

Conditions to avoid : Extremely high or low temperatures.
Moisture.

11 TOXICOLOGICAL INFORMATION

Rat oral LD50 [mg/kg] : 7684

Rabbit dermal LD50 [mg/kg] : >2000

Rat inhalation LC50 [mg/l/4h] : >20

12 ECOLOGICAL INFORMATION

ABM(The Netherlands) : {8} Harmful to aquatic organisms.
Contains substances dangerous to the aquatic environment.

Cleansing effort A

Biodegradation [%] : 50

LC50-96 Hour - fish [mg/l] : >300

12 ECOLOGICAL INFORMATION (continued)

48 Hour-EC50 - Daphnia magna [mg/l] : 81

IC50 72h Algae [mg/l] : 126

COD-value [mg/l] : No data available.

BOD5-value [mg/l] : No data available.

WGK class (Germany) : 1

13 DISPOSAL CONSIDERATIONS

Disposal : Dispose in a safe manner in accordance with local/national regulations.



MATERIAL SAFETY DATA SHEET
MP-200 HARDENER

Date: April 7, 2012

Industrial waste number :

Eural:200127.

14 TRANSPORT INFORMATION

General information : "Not dangerous " according to directive 2001/60/EC.

15 REGULATORY INFORMATION

Symbol(s) :	Irritant.
R Phrase(s) :	R36/38 : Irritating to eyes and skin.
R43 :	May cause sensitization by skin contact.
S Phrase(s) : S24 :	Avoid contact with skin.
S26 :	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S35 :	This material and its container must be disposed of in a safe way.
S37 :	Wear suitable gloves.
S51 :	Use only in well-ventilated areas.
S59 :	Refer to manufacturer/supplier for information on recovery/recycling.
P Phrase(s) :	P201-For professional use only.

16 OTHER INFORMATION

Text of R-Phrases in § 2 : R36/38	Irritating to eyes and skin.
R43 :	May cause sensitization by skin contact.

The contents and format of this SDS are in accordance with EEC Commission Directive 2001/58/EC.

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