

SAFETY DATA SHEET (US)**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

<u>1.1 Product identifier</u>	EST SO Process EG L-VOC Black
<u>1.2 Relevant identified uses of the substance or mixture and uses advised against</u>	Printing Ink
<u>1.3 Details of the supplier of the safety data sheet</u>	
MFG.DEPT.	MEGAMI INK MFG.CO.,LTD GUNMA FACTORY Gunma Pref. Annaka City Matsuida-Machi Matsuida 705-1 【TEL】+81-27-393-1718 【FAX】+81-27-393-0530 E-Mail gunkan@megamiink.com
QC.DEPT.	MEGAMI INK MFG.CO.,LTD TOKYO OFFICE TECHNICALCENTER QUALITY ASSURANCE DEPT. 【TEL】+81-48-994-4775 【FAX】+81-48-994-4785 E-Mail hinsho@megamiink.com
<u>1.4 Emergency telephone number</u>	【TEL】+81-48-994-4770

2. HAZARDS IDENTIFICATION

<u>2.1 Classification of the substance or mixture</u>	Mixture GHS classification in according with 29 CFR 1910 (OSHA HCS)
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2.2 Label elements

SYMBOL



SIGNAL WORD	Warning
HAZARD STATEMENTS	H332 Harmful if inhaled H317 May cause an allergic reaction H320 Cause eye irritation H335 May cause respiratory irritation
PRECAUTIONARY STATEMENTS	P261 Avoid breathing dust/fumes/gas/mist/vapours/spray.
PREVENTION	P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective glove protective clothing eye, face protection.
RESPONSE	P304/340 If Inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305/351/338 If in eyes, rinse cautiously with water for several minutes, remove contact lenses, if present and easy to do.
STORAGE	P405 Store locked up.
DISPOSAL	P501 Dispose of contents, container in accordance with applicable Laws and Regulation.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>3.1 Substance or 3.2 Mixture</u>	Mixture
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Ingredients	Contain %	Cas Number	Hazardous Information
Pigments			
Pigment Black 7	10-15	1333-86-4	N/A
Pigment Blue 61	1- 5	1324-76-1	N/A
Pigment White 18	1- 5	417-34-1	N/A
Resin			
Rosin modified phenolic resin	20-25	70955-45-2	N/A
Vegetable oil			
Linseed oil	20-25	8001-26-1	N/A
Soybean oil	10-15	8001-22-7	N/A

3. COMPOSITION / INFORMATION ON INGREDIENTS

Solvent			
Petroleum Hydrocarbon	15-20	64742-46-7	H332/H320/H335/H373
Additive			
Cobalt compound	5>	Registered	H317

4. FIRST AID MEASURES4.1 Description of first aid measures

EYE	If this product comes in contact with the eye wash out immediately with fresh running water. If pain persists or recurs seek medical attention.
SKIN	If skin contact occurs flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
INHALED	If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Transport to hospital, or doctor.
SWALLOWED	If swallowed do not induce vomiting. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.

5.2 Special hazards arising from the substance or mixture
Hazardous combustion products.

5.3 Advice for firefighters Required the use of respiratory protective equipment.

6. ACCIDENTAL RELEASE MEASURES6.1 Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described.

6.2 Environmental precautions

In the case of contamination of rivers, lakes or drains notify relevant authorities in accordance with local regulations.

6.3 Methods and material for containment and cleaning up

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate, Clean-up personnel should use respiratory and/or liquid contact protection. Inform Authorities if large amounts are involved.

6.4 Reference to other sections

For waste disposal, see section 13.

7. HANDLING AND STORAGE7.1 Precautions for safe handling

Avoid breathing vapors and contact with skin and eyes.
Avoid reaction with oxidizing agents. Avoid sources of heat.
Wear personal protective equipment when handling.
Wash hands with soap and water after handling.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool place lower than 25°C. Avoid Sun light.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters	Petroleum hydrocarbon (Oil mist) ACGIH 2010 (TWA) 5 mg/m ³ Carbon black ACGIH 2010 (TWA) 3.5 mg/m ³
8.2 Exposure controls	Individual protection measures, such as personal protective equipment.
Respiratory protection	Respiratory protection must be used if the general level exceeds the recommended occupational exposure limit.
Hand protection	Chemical resistant gloves made of Butyl rubber or Polyethylene-polyvinyl alcohol laminated rubber.
Eye/ face protection	Safety Glasses with side shields, goggles, or face shield.
Skin and body protection	Suitable safety clothes, aprons, shoes and protective boots.

9. PHYSICAL AND CHEMICAL PROPERTIES[9.1 Information on basic physical and chemical properties](#)

APPEARANCE	Paste
ODOR	Slight odor
MELTING POINT	No information on the product.
FLASH POINT	132°C
VAPOR PRESSURE	No information on the product.
SOLUBILITY	Insoluble in water
SPECIFIC GRAVITY	1.10-1.20 (25°C)
N-OCTANOL/WATER IGNITION TEMPRATURE	No information on the product.
PECOMPOSITION TEMPURATURE	No information on the product.
VOC PERCENT RANGE	10-15%
9.2 Other information	Not determined

10. CHEMICAL STABILITY AND REACTIVITY INFORMATION

10.1 Reactivity	There are no known reactivity hazards associated with this product.
10.2 Chemical stability	Stable under normal temperature conditions.
10.3 Possibility of hazardous reaction	No information on the product.
10.4 Conditions to avoid	No information on the product.
10.5 Incompatible materials	No information on the product.
10.6 Hazardous decomposition produ	No information on the product.

11. TOXICITY INFORMATION[11.1. Information on toxicological effects](#)

Acute toxicity (Inhalation)	Category4	H322 as concentration of Petroleum Hydrocarbon $\geq 10\%$
Skin corrosion/irritation	No information on the product.	
Serious eye damage/eye irritation	Category2B	H320 as concentration of Petroleum Hydrocarbon $\geq 10\%$
Skin Sensitizers	Category 1	H317 as concentration of Cobalt compound $\geq 1\%$
Gem cell mutagenicity	No information on the product.	
Carcinogenicity	No information on the product.	
Reproductive toxicity	No information on the product.	
Specific target organ toxicity exposure Category3		H335 as concentration of Petroleum Hydrocarbon $\geq 10\%$
Specific target organ toxicity Repeated exposure Category 2		H373 as concentration of Petroleum Hydrocarbon $\geq 10\%$

12. ECOLOGICAL INFORMATION[12.1 Toxicity](#)

Hazardous to the aquatic environment, Acute hazard	No information on the product.
Hazardous to the aquatic environment, Chronic hazard	No information on the product.

[12.2 Persistence and degradability](#) There are no data on the degradability of this product.

[12.3 Bioaccumulative potential](#) No data available on bioaccumulation.

12.4 Mobility in soil No data available.

12.5 Results of PBT and vPvB assessment

Not Classified as PBT/vPvB by current EU criteria.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Consult manufacturer for recycling options and recycle where possible
consult waste management authority for disposal.
Incinerate residue at an approved site.
Recycle containers where possible or dispose of in an authorized landfill.

14. TRANSPORTATION INFORMATION

14.1 UN number

Not applicable

14.2 UN proper shipping name

14.3 Transport hazard class

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

Not applicable

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations legislation specific for the substance or mixture

SARA SECTIONS 313

This Product does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

EPA TOXIC SUBSTANCES CONTROL ACT (TSCA)

All components of these products are included on the 8(b) TSCA inventory list.

California Prop.65

This product contains a chemical known to the State of California to cause cancer.

Carbon Black CAS 1333-86-4 Contain 10-15%

In the IARC classification, Carbon Black to group-2B (Possibly carcinogenic to humans.) but the Printing Ink is group-C (Not classifiable as to its carcinogenicity to humans.).

15.2 Chemical safety assessment

No chemical safety assessment has been carried out for this mixture by the supplier.

16. OTHER INFORMATION

Safety Data Sheet (SDS) is intended to provide for general industrial use as reference information in order to ensure the proper handling. It was created on the basis of reliable information but it is not a guarantee of the manufacturer.

Please take your appropriate measures of handling, etc. in their own responsibility.