



Material Safety Data Sheet

(This MSDS is prepared pursuant to the provision of Article 41 of the Industrial Safety and Health Law.)

1. PRODUCT AND COMPANY IDENTIFICATION

A. Product Name : SL-CATALYST(1000 & 3000)

· Product Code : 1915 CATALYST(1000 & 3000)

B. Recommended use of the chemical and restrictions on use

· Recommended use : Fabric Screen printing inks additive

· Restrictions on use : no data available

C. Company Details

· Manufacturer/Supplier : Aone Co., Ltd

· Address : 14-4, Woogo-Ri, Kwang Jeok-Myun, Yangju-Si, Kyunggi-Do, Korea

· Telephone Number : +82-31-878-9295/6

· Fax Number : +82-31-878-9207

D. Date Revised : June, 20, 2013

E. MSDS Number : #350-3

2. HAZARDS IDENTIFICATION

A. Hazard/Risk Classification : Not classified

B. Label elements including precautionary statements

· Symbol : no symbol

· Signal Word : no signal word

· Hazard/Risk Statement : no signal word

· Precautionary Statement : no signal word

C. Other Hazard/Risk which are not included in the classification criteria(e.g. dust explosion hazard) :

· NFPA RATINGS (SCALE 0-4) : HEALTH=1, FIRE=1, REACTIVITY=0

3. COMPOSITON/ INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Wt(%)
Dimethylpolysiloxane	None	90-95

4 . FIRST AID MEASURES

- A. SKIN contact : Remove product from skin with dry cloth or towel, and wash exposed area with detergent.
- B. EYES contact : Immediately flush with water for at least 15 minutes.
- C. INGESTION : Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Call a physician immediately.

5. FIRE FIGHTING MEASURES

- A. FLASH POINT(method used) : 300 degrees C Min. (Open cup)
- B. FLAMMABLE LIMITS : LOWER : Not measured
UPPER : Not measured
- C. EXTINGUISHING MEDIA : Foam, dry chemical or carbon dioxide
- D. SPECIAL FIRE FIGHTING PROCEDURE : None
- E. UNUSUAL FIRE AND EXPLOSION HAZARD : None

6. ACCIDENTAL RELEASE MEASURES

- A. STEP TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
Contain the spill or leak.
Scrape up with rag and place in container.

7. HANDLING AND STORAGE

- A. PRECAUTION TO BE TAKEN IN HANDLING AND STORING :
Keep container closed when not in use.
Store in a cool place.
Keep away from heat, sparks and flame.
Do not lay the container on its side.
Avoid contact with eyes and prolonged or repeated skin contact.
Keep out of reach of children.
* * * * * Information about the emptied container * * * * *
Do not re-use this container.
Keep away from heat, sparks and flame.
Do not puncture or cut this container, and do not weld on or near this container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- A. EXPOSURE GUIDELINES:
ACGIH TLV-TWA : Not established,
OSHA PEL : Not established
- B. RESPIRATORY PROTECTION(specify type):
See SECTION 11 of this MSDS for OTHER INFORMATION.

C. VENTILATION:

LOCAL EXHAUST: See SECTION 11 of this MSDS for OTHER INFORMATION.

MECHANICAL(general): See SECTION 11 of this MSDS for OTHER INFORMATION.

SPECIAL: Unknown

OTHER: Unknown

D. PROTECTIVE GLOVES : Plastic film or rubber gloves

E. EYE PROTECTION : Safety glasses

F. OTHER PROTECTIVE CLOTHING OR EQUIPMENT : Eyewash equipment

G. WORK/ HYGIENIC PRACTICES : Wash hands and gargle after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

A. BOILING POINT : Not applicable.

B. VAPOR PRESSURE : Negligible (20 degrees C)

C. VAPOR DENSITY (air=1) : Not applicable.

D. SPECIFIC GRAVITY : 0.965 (25 degrees C)

E. MELTING POINT : Not applicable

F. EVAPORATION RATE : Negligible (Butyl Acetate=1)

G. SOLUBILITY IN WATER : Not soluble (<1 ppm)

H. APPEARANCE(color) : Colorless, transparent

I. APPEARANCE(form) : Fluid

J. ODOR : odorless

10. STABILITY AND REACTIVITY

A. STABILITY : Stable

B. CONDITION TO AVOID : None

C. INCOMPATIBILITY(material to avoid) : None

D. HAZARDOUS DECOMPOSITION OR BY-PRODUCT :

Thermal breakdown of this product during fire or very high heat condition may evolve the following hazardous decomposition product : Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide. Formaldehyde.

E. HAZARDOUS POLYMERIZATION : Will not occur

F. CONDITION TO AVOID : None

11. TOXICOLOGICAL INFORMATION

A. SKIN IRRITATION : Patch Test(24Hr/Open) : Negative(1%)

B. EYE IRRITATION : May cause transitional slight eyes irritation.

C. SENSITIZATION : No evidence of sensitization

D. ACUTE TOXICITY(LD50) :

LD50(Oral/Rat) : >5g/kg

(estimated by similar dimethylpolysiloxane)

- E. ACUTE TOXICITY(LC50) : Not applicable
- F. SUBACUTE TOXICITY : No evidence of subacute toxicity in rats or mice.
- G. CHRONIC TOXICITY : No significant effects were observed.
- H. CARCINOGENICITY:

NTP : Not listed

IARC : Not listed

OSHA REGULATED : Not listed

No evidence of carcinogenicity in laboratory animals

- I. MUTAGENICITY : No evidence of mutagenicity.
- J. REPRODUCTIVE EFFECT : No information is available.
- K. TERATOGENIC EFFECT : No clear evidence of teratogenic effect (estimated)
- L. OTHER INFORMATION:

This product can generate formaldehyde at approximately 150 degrees C(300°F) and above in the presence of air. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant and potential cancer hazard. So, use adequate ventilation or wear protective equipment such as gloves, goggles or protective clothing when this product is heated at approximately 150 degrees C(300°F) and above in the presence of air.

12. ECOLOGICAL INFORMATION

- A. BIODEGRADATION : No evidence of biodegradation
- B. BIOACCUMULATION : No evidence of biodegradation
- C. AQUATIC TOXICITY : No evidence of aquatic toxicity
- D. OTHER INFORMATION : May cause decomposition in dry soils.

13. DISPOSAL CONSIDERATIONS

Can be burned in a chemical incinerator equipped with an afterburner and scrubber.
Do not dispose the emptied container unlawfully.
Observe all federal, state, and local laws.

14. TRANSPORT INFORMATION

- A. UN No. : No classification
- B. UN proper shipping name : N/A
- C. Transport hazard class : N/A
- D. Packing group (if applicable) : N/A
- E. Marine pollution (yes/no) : N/A
- F. Other International Transportation Regulations
 - Air Transport (IATA-DGR) : Not subject to IATA-DGR regulations.
- G. Special precaution which a user to be aware of or needs to comply with in connection with transport or conveyance either within or outside their premises : N/A

15. REGULATORY INFORMATION

- A. Industrial Safety and Health Act : No data available
- B. Toxic Chemical Control Act : Not listed
- C. Dangerous Material Safety Control Act : No data available
- D. Wastes Management Act : No data available
- E. Other requirements in domestic and other countries : No data available

16. OTHER INFORMATION

- These data are offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.