



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 : **AECO REDUCER-S**
- Product Code : AD-0050 REDUCER-S
- B. Recommended use of the chemical and restrictions on use
- Recommended use : Fabric Screen printing plastisol inks reducer
 - 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 : #150-4-1

2. HAZARDS IDENTIFICATION

- A. Hazard/Risk Classification
- No data available
- B. Label elements including precautionary statements
- Symbol : no symbol
 - Signal Word : no signal word
 - Hazard/Risk Statement : no data available
 - Precautionary Statement : no data available
- C. Other Hazard/Risk which are not included in the classification criteria(e.g. dust explosion hazard) :
- NFPA RATINGS (SCALE 0-4) : HEALTH=0, FIRE=1, REACTIVITY=0

3. COMPOSITON/ INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Wt(%)
mixed ester	1003585-70-3	80-90
Trimer	None	10-20

4. FIRST AID MEASURES

- A. Eyes : Flush with clean, low pressure water for minutes.
- B. Skin : Remove contaminated clothing. Wash skin with soap and water.
- C. Inhalation
 - ▶ Move to fresh air in case of accidental inhalation of fumes from overheating or combustion
 - When symptoms persist or in all cases of doubt seek medical advice.
- D. Ingestion
 - ▶ In case of excessive ingestion, copious intake of liquids. And seek medical attention.
- E. Note to Physician : None

5. FIRE FIGHTING MEASURES

- A. Suitable (and unsuitable) extinguishing media :
 - Dry chemical, carbon dioxide, water spray or regular foam
- B. Specific hazards arising from the chemical (e.g. nature of any hazardous combustion products) :
Thermal decomposition products – oxides of carbon
- C. Special protective equipment and precautions for fire-fighters :
Full firefighting turn-out gear (bunker gear).
Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive
-pressure mode in combination with a separate escape supply.
Any self-contained breathing apparatus with a full facepiece.

6. ACCIDENTAL RELEASE MEASURES

- A. Personal precautions, protective equipment and emergency procedures :
Stop leak if you can do it without risk.
- B. Environmental precautions and protective procedures : no data available
- C. Methods and materials for containment and cleaning up :
 - For Small spills : Absorb with sand or other non-combustible material.
Collect spilled material in appropriate container for disposal.
Keep unnecessary people away, isolate hazard area and deny entry.
 - For Large spills : Flush spill area with water spray. Prevent run off from entering drains, sewers, or
steams.

7. HANDLING AND STORAGE

- A. Precautions for safe handling :
No special precautionary health measure should be needed under anticipated conditions of use.
- B. Conditions for safe storage (including any incompatibilities) : Keep container closed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- A. Control parameters (e.g. occupational exposure limit values, biological limit values) :

No occupational exposure limits established by OSHA, ACGIH, or NIOSH.

B. Appropriate engineering controls :

Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

C. Personal protective equipment

- Respiratory protection :

Under conditions of frequent use or heavy exposure, respiratory protection may be needed.

Respiratory protection is ranked in order from minimum to maximum.

Consider warning properties before use.

Any chemical cartridge respirator with organic vapor cartridge(s).

Any chemical cartridge respirator with a full facepiece and organic vapor cartridge(s).

Any air-purifying respirator with a full facepiece and an organic vapor canister.

- Eye protection : Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

- Hands protection : Wear appropriate chemical resistant gloves.

- Body protection : Wear appropriate chemical resistant clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

A. Appearance (physical state, color etc) : Colorless to pale yellow, oily liquid

B. Odor : Almost odorless

C. Odor threshold : No data available

D. pH : 7.0

E. Melting point/ freezing point : -49 F (-45°C)

F. Initial boiling point and boiling range : 752~780.8 F (400~416°C @760mmHG)

G. Flashing point : 485.6 F (252°C)

H. Evaporation rate : no data available

I. Flammability Class(OSHA) : III B

J. Upper/ lower flammability or explosive limits : No data available

K. Vapor pressure : No data available

L. Solubility : 0.0057ppm(20°C)

M. Vapor density : No data available

N. Relative density : 0.976 @20°C

O. Partition coefficient : n-octanol/water : No data available

P. Auto-ignition temperature : 734 F (390°C)

Q. Decomposition temperature : No data available

R. Viscosity : 67cP @25°C

S. Formula mass : 404

10. STABILITY AND REACTIVITY

A. Chemical stability and possibility of hazardous reactions :

Stable under normal temperatures and pressures.

Hazardous polymerization has not been reported to occur under normal temperatures and pressures.

B. Conditions to avoid (e.g. static discharge, shock or vibration, etc) :

Avoid heat, flames, sparks and other sources of ignition.

Avoid contact with incompatible materials.

C. Incompatible materials : oxidizing materials

D. Hazardous decomposition products : Thermal decomposition products – oxides of carbon

11. TOXICOLOGICAL INFORMATION

A. Information on the likely routes of exposure : no data available

B. Health hazards information

- Acute toxic : no data available

- Skin corrosive/irritant : no data available

- Serious eye damage/eye irritation : no data available

- Respiratory sensitization : no data available

- Skin sensitization : no data available

- Carcinogenicity : no data available

- Germ Cell Mutagenicity : no data available

- Reproductive toxicity : no data available

- Specific target organ toxicity (single exposure) : no data available

- Specific target organ toxicity (repeated exposure) : no data available

- Aspiration hazard : no data available

12. ECOLOGICAL INFORMATION

A. Aquatic and terrestrial ecotoxicity : no data available

B. Persistence and degradability :

- Persistence : no data available

- Degradability : no data available

C. Bioaccumulative potential : no data available

D. Mobility in soil : no data available

E. Other adverse effects : no data available

13. DISPOSAL CONSIDERATIONS

A. Disposal method : Incinerate

B. Disposal precaution (including the disposal method of contaminated container and packaging) :

Discharge, treatment, or disposal may be subject to national, state or 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
 - U.S. REGULATIONS
 - TSCA inventory status : Listed.
 - TSCA 12b export notification : 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.