



# 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 PERMEATE AGENT**

· Product Code : AD-0070 PERMEATE AGENT

B. Recommended use of the chemical and restrictions on use

· Recommended use : Fabric Screen printing plastisol 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 : #150-3

## 2. HAZARDS IDENTIFICATION

A. Hazard/Risk Classification

· Specific Target Organ Toxicity (Single Exposure) : Category 3

B. Label elements including precautionary statements

· Symbol :



· Signal Word : Danger

· Hazard/Risk Statement :

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H371 May cause damage to organs.

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

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

· Precautionary Statement

- Prevention :

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

- P233 Keep container tightly closed.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical/ventilating/lighting/.../equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P260 Do not breathe dust/fume/gas/mist/vapour/spray.
- P264 Wash ... thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

- Response :

- P301+P310 IF SWALLOWED : Immediately call a POISON CENTER or doctor/physician.
- P303+P361+P353 IF ON SKIN (or hair) : Take off immediately all contaminated clothing.  
Rinse skin with water/shower.
- P309+P311 IF exposed or if you feel unwell : Call a POISON CENTER or doctor/physician.
- P314 Get medical advice/attention if you feel unwell.
- P331 Do NOT induce vomiting.
- P370+P378 In case of fire : Use ... for extinction.
- P391 Collect spillage.

- Storage :

- P403+P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.

- Disposal : P501 Dispose of contents/ container to ...

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

- DISTILLATES (PETROLEUM), HYDROTREATED LIGHT : HEALTH=1, FIRE=2, REACTIVITY=0
- ALCOHOLS, C12-14, ETHOXYLATED PROP... : HEALTH=1, FIRE=1, REACTIVITY=0

### **3. COMPOSITON/ INFORMATION ON INGREDIENTS**

Chemical Name	CAS No.	Wt(%)
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT	None	50-70
mixed ester	None	30-50

### **4 . FIRST AID MEASURES**

- A. General advice : Take off all contaminated clothing.
- B. Skin : Wash off with soap and plenty of water.
- C. Inhalation : Move to fresh air in case of accidental inhalation of vapours.
- D. Eye contact

- ▶ In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

E. Ingestion

- ▶ Caution! Potential for aspiration. Do not induce vomiting.  
Call a physician Immediately.

F. Medical advice : no special measures.

## **5. FIRE FIGHTING MEASURES**

A. Extinguishing media :

- ▶ Suitable: foam, carbon dioxide, dry powder, water spray not to be used for safety reasons :  
high volume water jet

B. Specific hazards due to the substance, its combustion products or gases formed :

- ▶ Burning produce irritant fumes.

C. Special Protective equipment for fire-fighters :

- ▶ Wear a self breathing apparatus.

## **6. ACCIDENTAL RELEASE MEASURES**

A. Personal precautions : In case of vapour formation use respirator.

B. Environmental precautions : Do not let product enter drains.

C. Methods for cleaning up : Soak up with inert absorbent material(e.g. sand, silica gel, universal binder).

## **7. HANDLING AND STORAGE**

A. Handling : Keep away from sources of ignition- No smoking.

B. Storage : Keep container tightly closed in a dry and well-ventilated place.

C. Storage conditions : keep away from heat.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

A. Personal protection equipment :

- ▶ Respiratory protection : In case of insufficient ventilation wear suitable respiratory equipment.
- ▶ Hand protection : PVC penetration time : 2h
- ▶ Eye protection : safety glasses
- ▶ Skin protection : long sleeved clothing
- ▶ Hygiene measures : Handle in accordance with industrial hygiene and safety practice.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

A. Form : liquid

B. Colour : colourless

C. Odour : not significant

D. pH value : n.d. ( insoluble in water )

E. Initial Boiling point(°C) : >200

- G. Melting point (°C) : < -1
- H. Stock point (°C) : n.d.
- I. Flash point (°C) : 105
- J. Ignition temperature(°C): >200
- K. Explosion limits( Vol %) : lower : 0.6, upper: 8.0
- L. Vapour pressure (mbar )20°C : < 1
- M. Density (g/cm<sup>3</sup>) 20°C : 0,83
- O. Viscosity(mm<sup>2</sup>/s)40°C : 2.9
- P. Surface tension(mN/m)40°C : < 25
- Q. Water solubility : immiscible
- R. Solvent content (Wt%) : none

## **10. STABILITY AND REACTIVITY**

- A. Conditions to avoid : No decomposition if used as directed.
- B. Materials to avoid : strong oxidizing agents.
- C. Hazardous decomposition products : CO, CO<sub>2</sub>

## **11. TOXICOLOGICAL INFORMATION**

- A. Special Hazard Information on Components
  - ▶ No known applicable information.

## **12. ECOLOGICAL INFORMATION**

- A. Ecotoxicity effects :
  - ▶ Toxicity to fish : LC 50 : No information available
  - ▶ Pseudomonas-Cell Multiplication Test (ISO 10712): No information available
- B. Mobility : not examined
- C. Persistence and degradability : No information available
- D. Bioaccumulation potential : not examined
  - ▶ Further adverse effects : none known
- E. Further information :
  - ▶ Does not contain heavy metals.
  - ▶ Does not contain halogenated compounds.

## **13. DISPOSAL CONSIDERATIONS**

- A. Water from residue / unused product :
  - ▶ Can be incinerated, when in compliance with local regulations.

B. EWC number : 070299

C. Contaminated packaging

Empty containers should be transported/delivered using a registered waste

- ▶ Carrier for local recycling or waste disposal.

## **14. TRANSPORT INFORMATION**

A. ADR/RID

- ▶ Class : -
- ▶ UN-No : -
- ▶ Packing group : -
- ▶ Technical name : not a dangerous substance as defined in the above regulations.

B. IMDG/IMO

- ▶ Class : -
- ▶ UN-No : -
- ▶ Packing group : -
- ▶ EMS-No : -
- ▶ MFAG : -
- ▶ Marine pollutant : no
- ▶ Proper shipping name : not a dangerous substance as defined in the above regulations.

C. ICAO/IATA

- ▶ Class : -
- ▶ UN-No : -
- ▶ Packing group : -
- ▶ Proper Technical name : not a dangerous substance as defined in the above regulations.

## **15. REGULATORY INFORMATION**

A. Classification according to EEC directive 1999/45/EC : Xn-Harmful contains hydrocarbon

B. R phrases :

R65-Harmful: may cause lung damage if swallowed

R35-Irritating to skin

C. S phrases

S23- Do not breathe vapour

S24- Avoid contact with skin

S62-If swallowed, do not induce vomiting : seek medical advice immediately and show this container  
or label

D. Further data : none

E. The components of the product are listed in EINECS inventory.

## **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.