1: Identification

- 1.1 Product identifier
  - Trade name: AFCONA - 2530
  - Application of the substance / the mixture: Paint Additives

- 1.3 Details of the supplier of the safety data sheet
  - Manufacturer/Supplier:
    Haiman AFCONA Chemicals Co., Ltd
    29, Daping Road, Qing-Long Chemical Industrial Park,
    Hai men, Jiangsu Province, 226121, P.R. China
    Tel: +82-513-82658995
  - Information department: Product safety department.

- 1.4 Emergency telephone number:
  - For Hazardous Materials [or Dangerous Goods] Incident Spill, Leak, Fire, Exposure, or Accident
  - Call CHEMTREC Day or Night
  - Within USA and Canada: 1-800-424-9300 CCN796211 or +1 703-527-3887 (collect calls accepted)

2: Hazard(s) identification

- 2.1 Classification of the substance or mixture
  - Classification according to Regulation (EC) No 1272/2008
    Flam. Liq. 4 H227 Combustible liquid.

- 2.2 Label elements
  - Labelling according to Regulation (EC) No 1272/2008
    The product is classified and labeled according to the CLP regulation.
  - Hazard pictograms Void
  - Signal word Warning
  - Hazard statements
    H227 Combustible liquid.
  - Precautionary statements
    P210 Keep away from flames and hot surfaces. – No smoking.
    P280 Wear protective gloves / eye protection / face protection.
    P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.
    P403+P235 Store in a well-ventilated place. Keep cool.
    P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- Classification system:
  - NFPA ratings (scale 0 - 4)
    - Health = 0
    - Fire = 2
    - Reactivity = 0

- HMIS-ratings (scale 0 - 4)
  - HEALTH Health = 0
  - FIRE Fire = 2
  - REACTIVITY Reactivity = 0

- 2.3 Other hazards
  - Results of PBT and vPvB assessment
  - PBT: Not applicable.

(Contd. on page 2)
Trade name: AFCONA - 2530

3: Composition/information on ingredients

· 3.2 Chemical characterization: Mixtures
· Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:
  34590-94-8 (2-methoxymethylethoxy)propanol 10-25%

4: First-aid measures

· 4.1 Description of first aid measures
· After inhalation: Supply fresh air; consult doctor in case of complaints.
· After skin contact: Generally the product does not irritate the skin.
· After eye contact: Rinse opened eye for several minutes under running water.
· After swallowing: If symptoms persist consult doctor.

· 4.2 Most important symptoms and effects, both acute and delayed
No further relevant information available.

· 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
· Suitable extinguishing agents:
  CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· 5.2 Special hazards arising from the substance or mixture
No further relevant information available.

· 5.3 Advice for firefighters
· Protective equipment: No special measures required.

6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures
  Wear protective equipment. Keep unprotected persons away.

· 6.2 Environmental precautions:
  Do not allow to enter sewers/ surface or ground water.

· 6.3 Methods and material for containment and cleaning up:
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

· 6.4 Reference to other sections
  See Section 7 for information on safe handling.
  See Section 8 for information on personal protection equipment.
  See Section 13 for disposal information.

7: Handling and storage

· 7.1 Precautions for safe handling
  Keep receptacles tightly sealed.

· Information about protection against explosions and fires:
  Keep ignition sources away - Do not smoke.

· 7.2 Conditions for safe storage, including any incompatibilities
  Storage:
  · Requirements to be met by storerooms and receptacles: No special requirements.
  · Information about storage in one common storage facility: Not required.
  · Further information about storage conditions: Keep receptacle tightly sealed.
8: Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.

- 8.1 Control parameters

- Components with limit values that require monitoring at the workplace:

<table>
<thead>
<tr>
<th>Component</th>
<th>PEL</th>
<th>REL</th>
<th>TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>34590-94-8 (2-methoxymethylethoxy)propanol</td>
<td>Long-term value: 600 mg/m³, 100 ppm (Skin)</td>
<td>Short-term value: 900 mg/m³, 150 ppm (Skin)</td>
<td>Long-term value: 909 mg/m³, 150 ppm (Skin)</td>
</tr>
</tbody>
</table>

- Additional information: The lists that were valid during the creation were used as basis.

- 8.2 Exposure controls

- Personal protective equipment:

- General protective and hygienic measures: Wash hands before breaks and at the end of work.

- Breathing equipment: Not required.

- Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/substance/chemical mixture. Due to missing tests no recommendation to the glove material can be given for the product/chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

- Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

- Penetration time of glove material

The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

- Eye protection: Goggles recommended during refilling.

9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties

- General Information

- Appearance:

  - Form: Fluid
  - Color: According to product specification
  - Odor: Characteristic
  - Odour threshold: Not determined.

- pH-value: Not determined.
41.2.14

- Change in condition
  - Melting point/Melting range: Undetermined.
  - Boiling point/Boiling range: 190 °C (374 °F)

- Flash point: 75 °C (167 °F)

- Flammability (solid, gaseous): Not applicable.

- Ignition temperature: 270 °C (518 °F)

- Decomposition temperature: Not determined.

- Auto igniting: Product is not selfigniting.

- Danger of explosion: Not determined.

- Explosion limits:
  - Lower: 1.1 Vol %
  - Upper: 14.0 Vol %

- Vapor pressure at 20 °C (68 °F): 0.4 hPa

- Density at 20 °C (68 °F): 0.99 g/cm³ (8.262 lbs/gal)

- Relative density Not determined.

- Vapour density Not determined.

- Evaporation rate Not determined.

- Solubility in / Miscibility with
  - Water: Not miscible or difficult to mix.

- Partition coefficient (n-octanol/water): Not determined.

- Viscosity:
  - Dynamic: Not determined.
  - Kinematic: Not determined.

- Solvent content:
  - Organic solvents: 15.0 %
  - VOC content: 15.0 %
  - 148.5 g/l / 1.24 lb/gl

- Solids content: 85.0 %

- 9.2 Other information
  - No further relevant information available.

10: Stability and reactivity

- 10.1 Reactivity
  - No further relevant information available.

- 10.2 Chemical stability
  - Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
  - 10.3 Possibility of hazardous reactions
  - No dangerous reactions known.

- 10.4 Conditions to avoid
  - No further relevant information available.

- 10.5 Incompatible materials: No further relevant information available.

- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

11: Toxicological information

- 11.1 Information on toxicological effects
  - Acute toxicity: Based on available data, the classification criteria are not met.
  - Primary irritant effect:
    - on the skin: Based on available data, the classification criteria are not met.
    - on the eye: Based on available data, the classification criteria are not met.
  - Sensitization: Based on available data, the classification criteria are not met.
12: Ecological information

- 12.1 Toxicity
  - Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- Additional ecological information:
  - General notes:
    Water hazard class 1 (Self-assessment): slightly hazardous for water
    Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- 12.5 Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.
- 12.6 Other adverse effects No further relevant information available.

13: Disposal considerations

- 13.1 Waste treatment methods
  - Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- Uncleaned packagings:
  - Recommendation: Disposal must be made according to official regulations.

14: Transport information

- 14.1 UN-Number
  - DOT, ADR, ADN, IMDG, IATA Void
- 14.2 UN proper shipping name
  - DOT, ADR, ADN, IMDG, IATA Void
- 14.3 Transport hazard class(es)
  - DOT, ADR, ADN, IMDG, IATA Void
- 14.4 Packing group
  - DOT, ADR, IMDG, IATA Void
- 14.5 Environmental hazards:
  - Marine pollutant: No
- 14.6 Special precautions for user
  - Not applicable.
Trade name: AFCONA - 2530

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

UN "Model Regulation": Void

15: Regulatory information

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

Sara

- Section 355 (extremely hazardous substances):
  None of the ingredient is listed.

- Section 313 (Specific toxic chemical listings):
  None of the ingredients is listed.

TSCA (Toxic Substances Control Act):

<table>
<thead>
<tr>
<th>Substance ID</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>25322-69-4</td>
<td>Polypropylene Glycol</td>
</tr>
<tr>
<td>34590-94-8</td>
<td>(2-methoxymethylethoxy)propanol</td>
</tr>
</tbody>
</table>

Proposition 65

- Chemicals known to cause cancer:
  None of the ingredients is listed.

- Chemicals known to cause reproductive toxicity for females:
  None of the ingredients is listed.

- Chemicals known to cause reproductive toxicity for males:
  None of the ingredients is listed.

- Chemicals known to cause developmental toxicity:
  None of the ingredients is listed.

Cancerogenity categories

- EPA (Environmental Protection Agency)
  None of the ingredients is listed.

- TLV (Threshold Limit Value established by ACGIH)
  None of the ingredients is listed.

- NIOSH-Ca (National Institute for Occupational Safety and Health)
  None of the ingredients is listed.

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labeled according to the CLP regulation.

- Hazard pictograms: Void
- Signal word: Warning
- Hazard statements: H227 Combustible liquid.

Precautionary statements

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<td>Dispose of contents/container in accordance with local/regional/national/international regulations.</td>
</tr>
</tbody>
</table>

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.
16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** Product safety department.
- **Contact:** Mr. Saw Eng Nee
- **Date of preparation / last revision:** 10/27/2015 / -
- **Abbreviations and acronyms:**
  - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  - IMDG: International Maritime Code for Dangerous Goods
  - DOT: US Department of Transportation
  - IATA: International Air Transport Association
  - GHS: Globally Harmonised System of Classification and Labelling of Chemicals
  - ACGIH: American Conference of Governmental Industrial Hygienists
  - EINECS: European Inventory of Existing Commercial Chemical Substances
  - ELINCS: European List of Notified Chemical Substances
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)
  - NFPA: National Fire Protection Association (USA)
  - HMIS: Hazardous Materials Identification System (USA)
  - VOC: Volatile Organic Compounds (USA, EU)
  - PBT: Persistent, Bioaccumulative and Toxic
  - vPvB: very Persistent and very Bioaccumulative
  - Flam. Liq. 4: Flammable liquids, Hazard Category 4