1 Identification

1.1 Product identifier

Trade name: AFCONA - 4067
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, Daqing Road, Qing-Long Chemical Industrial Park,
Haimen, 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

- GHS02 Flame
  Flammable liquid and vapor.

- GHS07
  May cause drowsiness or dizziness.

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

- GHS02
- GHS07

Signal word: Warning

Hazard-determining components of labeling:
n-butyl acetate

Hazard statements:
H226 Flammable liquid and vapor.
H336 May cause drowsiness or dizziness.

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

(Contd. on page 2)
44.0

P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P280 Wear protective gloves / eye protection / face protection.
P240 Ground/bond container and receiving equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P271 Use only outdoors or in a well-ventilated area.
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Call a POISON CENTER/doctor if you feel unwell.
P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.
P405 Store locked up.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
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)
  3
  Health = 0
  Fire = 3
  Reactivity = 0
· HMIS-ratings (scale 0 - 4)
  Health = 0
  Fire = 3
  Reactivity = 0
· 2.3 Other hazards
· Results of PBT and vPvB assessment
  · PBT: Not applicable.
  · vPvB: Not applicable.

3 Composition/information on ingredients

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

· Dangerous components:
  123-86-4 n-butyl acetate 25-50%
  108-65-6 2-methoxy-1-methylethyl acetate 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.

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.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **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).
  - 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.

- **Protective Action Criteria for Chemicals**

- **PAC-1:**
  - 123-86-4 n-butyl acetate 5 ppm
  - 108-65-6 2-methoxy-1-methylethyl acetate 50 ppm

- **PAC-2:**
  - 123-86-4 n-butyl acetate 200 ppm
  - 108-65-6 2-methoxy-1-methylethyl acetate 1,000 ppm

- **PAC-3:**
  - 123-86-4 n-butyl acetate 3000* ppm
  - 108-65-6 2-methoxy-1-methylethyl acetate 3000* ppm

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.
  - Protect against electrostatic charges.
- **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.
- **7.3 Specific end use(s)** No further relevant information available.
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>Substance</th>
<th>Long-term value</th>
<th>Short-term value</th>
</tr>
</thead>
<tbody>
<tr>
<td>123-86-4 n-butyl acetate</td>
<td>710 mg/m³, 150 ppm</td>
<td>950 mg/m³, 200 ppm</td>
</tr>
<tr>
<td>REL</td>
<td>Long-term value: 710 mg/m³, 150 ppm</td>
<td></td>
</tr>
<tr>
<td>TLV</td>
<td>Short-term value: 712 mg/m³, 150 ppm</td>
<td></td>
</tr>
<tr>
<td>Long-term value: 238 mg/m³, 50 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>108-65-6 2-methoxy-1-methylethyl acetate</td>
<td>WEEL</td>
<td>Long-term value: 50 ppm</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:
    The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
    Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the 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 can not be calculated in advance and has therefore to be checked prior to the application.
  - Penetration time of glove material
    The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
  - Eye protection:

    Tightly sealed goggles

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
  - Odor threshold: Not determined.
  - pH-value: Not determined.
  - Change in condition
    - Melting point/Melting range: Undetermined.
### Boiling point/Boiling range:
124 °C (255 °F)

- **Flash point:**
  24 °C (75 °F)

- **Flammability (solid, gaseous):**
  Not applicable.

- **Ignition temperature:**
  315 °C (599 °F)

- **Decomposition temperature:**
  Not determined.

- **Auto igniting:**
  Product is not selfigniting.

- **Danger of explosion:**
  Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

- **Explosion limits:**
  - Lower: 1.2 Vol %
  - Upper: 10.8 Vol %

- **Vapor pressure at 20 °C (68 °F):**
  10.7 hPa (8 mm Hg)

- **Density at 20 °C (68 °F):**
  0.95 g/cm³ (7.928 lbs/gal)

- **Relative density**
  Not determined.

- **Vapor 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: 55.0 %
  - VOC content: 55.0 %
    - 522.5 g/l / 4.36 lb/gl

- **Solids content:**
  45.0 %

- **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.
Safety Data Sheet
acc. to OSHA HCS

Trade name: AFCONA - 4067

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, IMDG, IATA: UN1866
- 14.2 UN proper shipping name
  - DOT: Resin solution
  - ADR: 1866 Resin solution
  - IMDG, IATA: RESIN SOLUTION
### 14.3 Transport hazard class(es)
- **DOT**
- **Class** 3
- **Label** Flammable liquids
- **ADR, IMDG, IATA**
- **Class** 3
- **Label** Flammable liquids

### 14.4 Packing group
- **DOT, ADR, IMDG, IATA** III

### 14.5 Environmental hazards:
- **Marine pollutant:** No

### 14.6 Special precautions for user
- **DOT Code (Kemler):** 30
- **EMS Number:** F-E,S-E
- **Stowage Category:** A

### 14.7 Transport in bulk according to Annex II of MARPOL '73/78 and the IBC Code
- **Not applicable.**

### Transport/Additional information:
- **DOT**
  - **Quantity limitations**
    - On passenger aircraft/rail: 60 L
    - On cargo aircraft only:

- **ADR**
  - **Excepted quantities (EQ)** Code: E1
    - Maximum net quantity per inner packaging: 30 ml
    - Maximum net quantity per outer packaging: 1000 ml

- **IMDG**
  - **Limited quantities (LQ)** 5L
  - **Excepted quantities (EQ)** Code: E1
    - Maximum net quantity per inner packaging: 30 ml
    - Maximum net quantity per outer packaging: 1000 ml

- **UN "Model Regulation":** UN 1866 RESIN SOLUTION, 3, III

### 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.

(Contd. on page 8)
Section 313 (Specific toxic chemical listings):
None of the ingredients is listed.

TSCA (Toxic Substances Control Act):
Not all ingredients are TSCA listed, only below Ingredient/s is/are listed

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
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<tbody>
<tr>
<td>123-86-4</td>
<td>n-butyl acetate</td>
</tr>
<tr>
<td>108-65-6</td>
<td>2-methoxy-1-methylethyl acetate</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.

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 01/20/2017 / -

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
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
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Flam. Liq. 3: Flammable liquids – Category 3
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3