1: Identification

- 1.1 Product identifier
  - Trade name: AFCONA - 2051
  - 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
    Flam. Liq. 3 H226 Flammable liquid and vapor.
    GHS07
    STOT SE 3 H335 May cause respiratory irritation.

- 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:
  2,6-dimethylheptan-4-one

- Hazard statements
  H226 Flammable liquid and vapor.
  H335 May cause respiratory irritation.

- Precautionary statements
  P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
  P241 Use explosion-proof electrical/ventilating/lighting/equipment.
  P261 Avoid breathing dust/fume/gas/mist/vapors/spray

(Contd. on page 2)
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.

3: Composition/information on ingredients

3.2 Chemical characterization: Mixtures

Description: Mixture of the substances listed below with nonhazardous additions.

Dangerous components:

<table>
<thead>
<tr>
<th>Substance</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>108-83-8 2,6-dimethylheptan-4-one</td>
<td>50-100%</td>
</tr>
<tr>
<td>108-65-6 2-methoxy-1-methylethyl acetate</td>
<td>25-50%</td>
</tr>
</tbody>
</table>

4: First-aid measures

4.1 Description of first aid measures

General information: Immediately remove any clothing soiled by the product.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Immediately rinse with water.

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.
  - 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).
  - 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.
  - Ensure good ventilation/exhaustion at the workplace.
  - Prevent formation of aerosols.

- **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**

<table>
<thead>
<tr>
<th>Component</th>
<th>Limit Value</th>
<th>Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>108-83-8</td>
<td>2,6-dimethylheptan-4-one</td>
<td></td>
</tr>
<tr>
<td>PEL</td>
<td>Long-term value: 290 mg/m³, 50 ppm</td>
<td></td>
</tr>
<tr>
<td>REL</td>
<td>Long-term value: 150 mg/m³, 25 ppm</td>
<td></td>
</tr>
<tr>
<td>TLV</td>
<td>Long-term value: 145 mg/m³, 25 ppm</td>
<td></td>
</tr>
<tr>
<td>108-65-6</td>
<td>2-methoxy-1-methylethyl acetate</td>
<td></td>
</tr>
<tr>
<td>WEEL</td>
<td>Long-term value: 50 ppm</td>
<td></td>
</tr>
</tbody>
</table>
8.2 Exposure controls

- Personal protective equipment:
- General protective and hygienic measures:
  Keep away from foodstuffs, beverages and feed.
  Immediately remove all soiled and contaminated clothing.
  Wash hands before breaks and at the end of work.
- Breathing equipment:
  In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure
  use respiratory protective device that is independent of circulating air.

- Protection of hands:

  Protective gloves

  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
  - Odour threshold: Not determined.
  - pH-value: Not determined.

  - Change in condition
    - Melting point/Melting range: Undetermined.
    - Boiling point/Boiling range: 146 °C (295 °F)
  - Flash point: 44 °C (111 °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: 0.8 Vol %
  - Upper: 10.8 Vol %

· Vapor pressure at 20 °C (68 °F): 5 hPa (4 mm Hg)

· Density at 20 °C (68 °F): 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: 97.5 %
  - VOC content: 97.5 %
  - 838.5 g/l / 7.00 lb/gl

· Solids content: 2.5 %

· 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.
  - LD/LC50 values that are relevant for classification:
    108-83-8 2,6-dimethylheptan-4-one
    - Oral LD50 5750 mg/kg (rat)
    - Dermal LD50 16000 mg/kg (rabbit)

· 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, 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 Flammable liquids
# Safety Data Sheet
acc. to OSHA HCS

Printing date 10/27/2015
Reviewed on 10/27/2015

**Trade name: AFCONA - 2051**

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### 14.5 Environmental hazards:
- **Class**
- **Label**

### 14.4 Packing group
- **DOT, ADR, IMDG, IATA**
- **Class**
- **Label**

### 14.6 Special precautions for user
- **Warning:** Flammable liquids
- **Danger code (Kemler):**
- **EMS Number:**
- **Stowage Category**

### 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:** 220 L
- **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)**
- **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**

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# 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):**
  - 108-83-8 2,6-dimethylheptan-4-one
  - 108-65-6 2-methoxy-1-methylethyl acetate
- **Proposition 65**
- **Chemicals known to cause cancer:**
  - None of the ingredients is listed.

---
Trade name: AFCONA - 2051

- **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**
  - GHS02
  - GHS07

- **Signal word** Warning

- **Hazard-determining components of labeling:**
  2,6-dimethylheptan-4-one

- **Hazard statements**
  - H226 Flammable liquid and vapor.
  - H335 May cause respiratory irritation.

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

- **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.
Trade name: AFCONA - 2051

- **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)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Flam. Liq. 3: Flammable liquids, Hazard Category 3
- STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

distributed by:

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