1: Identification

· 1.1 Product identifier
   · Trade name: AFCONA - 2028
   · 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. 2 H225 Highly flammable liquid and vapor.

  GHS07
  Acute Tox. 4 H332 Harmful if inhaled.
  Skin Irrit. 2 H315 Causes skin 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 Danger

· Hazard-determining components of labeling:
  xylene

· Hazard statements
  H225 Highly flammable liquid and vapor.
  H332 Harmful if inhaled.
  H315 Causes skin irritation.

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

(Contd. on page 2)
41.2.14

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.
P233 Keep container tightly closed.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P264 Wash thoroughly after handling.
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.
P321 Specific treatment (see on this label).
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Call a POISON CENTER/doctor if you feel unwell.
P332+P313 If skin irritation occurs: Get medical advice/attention.
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 = 1
  - Fire = 3
  - Reactivity = 0
- HMIS-ratings (scale 0 - 4)
  - Health = 1
  - 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:

<table>
<thead>
<tr>
<th>Substance</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1330-20-7 xylene</td>
<td>50-100%</td>
</tr>
<tr>
<td>123-86-4 n-butyl acetate</td>
<td>2.5-10%</td>
</tr>
<tr>
<td>108-65-6 2-methoxy-1-methylethyl acetate</td>
<td>2.5-10%</td>
</tr>
<tr>
<td>141-78-6 ethyl acetate</td>
<td>2.5-10%</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.
    - Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
41.2.14

· After inhalation:
  Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
  In case of unconsciousness place patient stably in side position for transportation.

· After skin contact:
  Immediately wash with water and soap and rinse thoroughly.

· 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: Mouth respiratory protective device.

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: Store in a cool location.
    · Information about storage in one common storage facility: Not required.
  · Further information about storage conditions:
    Keep receptacle tightly sealed.
    Store in cool, dry conditions in well sealed receptacles.

· 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>1330-20-7 xylene</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PEL</td>
<td>Long-term value: 435 mg/m³, 100 ppm</td>
</tr>
<tr>
<td>REL</td>
<td>Short-term value: 655 mg/m³, 150 ppm</td>
</tr>
<tr>
<td>Long-term value: 435 mg/m³, 100 ppm</td>
<td></td>
</tr>
<tr>
<td>TLV Short-term value: 651 mg/m³, 150 ppm</td>
<td></td>
</tr>
<tr>
<td>Long-term value: 434 mg/m³, 100 ppm</td>
<td></td>
</tr>
<tr>
<td>BEI</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>123-86-4 n-butyl acetate</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PEL Long-term value: 710 mg/m³, 150 ppm</td>
<td></td>
</tr>
<tr>
<td>REL Short-term value: 950 mg/m³, 200 ppm</td>
<td></td>
</tr>
<tr>
<td>Long-term value: 710 mg/m³, 150 ppm</td>
<td></td>
</tr>
<tr>
<td>TLV Short-term value: (950) NIC-712 mg/m³, (200) NIC-150 ppm</td>
<td></td>
</tr>
<tr>
<td>Long-term value: (713) NIC-238 mg/m³, (150) NIC-50 ppm</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>108-65-6 2-methoxy-1-methylethyl acetate</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>WEEL Long-term value: 50 ppm</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>141-78-6 ethyl acetate</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PEL Long-term value: 1400 mg/m³, 400 ppm</td>
<td></td>
</tr>
<tr>
<td>REL Long-term value: 1400 mg/m³, 400 ppm</td>
<td></td>
</tr>
<tr>
<td>TLV Long-term value: 1440 mg/m³, 400 ppm</td>
<td></td>
</tr>
</tbody>
</table>

- Ingredients with biological limit values:

<table>
<thead>
<tr>
<th>1330-20-7 xylene</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>BEI 1.5 g/g creatinine</td>
<td></td>
</tr>
<tr>
<td>Medium: urine</td>
<td></td>
</tr>
<tr>
<td>Time: end of shift</td>
<td></td>
</tr>
<tr>
<td>Parameter: Methylhippuric acids</td>
<td></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:
  
  Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the skin. Avoid contact with the eyes and skin.

  - 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:
  Odor: Characteristic
  Odour threshold: Not determined.
· pH-value:
  Not determined.
· Change in condition
  Melting point/Melting range: Undetermined.
  Boiling point/Boiling range: \(124 \, ^\circ \text{C} (255 \, ^\circ \text{F})\)
· Flash point:
  22 \, ^\circ \text{C} (72 \, ^\circ \text{F})
· Flammability (solid, gaseous):
  Not applicable.
· Ignition temperature:
  370 \, ^\circ \text{C} (698 \, ^\circ \text{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: 1.1 Vol %
  Upper: 7.0 Vol %
· Vapor pressure at 20 \, ^\circ \text{C} (68 \, ^\circ \text{F}):
  6.7 hPa (5 mm Hg)
· Density at 20 \, ^\circ \text{C} (68 \, ^\circ \text{F}):
  0.87 g/cm³ (7.26 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.
41.2.14
· Solvent content:
  · Organic solvents: 96.2 %
  · VOC content: 96.2 %
  · 836.9 g/l / 6.98 lb/gl
· Solids content: 3.8 %
· 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:
    Harmful if inhaled.
  · LD/LC50 values that are relevant for classification:
    1330-20-7 xylene
    · Oral LD50 4300 mg/kg (rat)
    · Dermal LD50 2000 mg/kg (rabbit)
  · Primary irritant effect:
    · on the skin: Causes skin irritation.
    · on the eye: Based on available data, the classification criteria are not met.
    · Sensitization: Based on available data, the classification criteria are not met.
  · Additional toxicological information:
  · Carcinogenic categories
    · IARC (International Agency for Research on Cancer)
      1330-20-7 xylene 3
    · NTP (National Toxicology Program)
      None of the ingredients is listed.
    · OSHA-Ca (Occupational Safety & Health Administration)
      None of the ingredients is listed.

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 2 (Self-assessment): hazardous for water
4.13.2.14 Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

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
  - Label 3

- ADR, IMDG, IATA
  - Class 3 Flammable liquids
  - Label 3

14.4 Packing group
- DOT, ADR, IMDG, IATA II

14.5 Environmental hazards:
- Marine pollutant: No

14.6 Special precautions for user
- Warning: Flammable liquids
- Danger code (Kemler): 33
- EMS Number: F-E,S-E
- Stowage Category B

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.
Trade name: AFCONA - 2028

<table>
<thead>
<tr>
<th>Transport/Additional information:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
<td></td>
</tr>
</tbody>
</table>
| Quantity limitations             | On passenger aircraft/rail: 5 L  
On cargo aircraft only: 60 L |
| ADR                              |  |
| Excepted quantities (EQ)         | Code: E2  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 500 ml |
| IMDG                             |  |
| Limited quantities (LQ)          | 5L  
Code: E2  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 500 ml |
| Excepted quantities (EQ)         |  |
| UN "Model Regulation":          | UN 1866 RESIN SOLUTION, 3, II |

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):
    - 1330-20-7 xylene
  - TSCA (Toxic Substances Control Act):
    - 1330-20-7 xylene
    - 123-86-4 n-butyl acetate
    - 108-65-6 2-methoxy-1-methylethyl acetate
    - 141-78-6 ethyl acetate

- 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)
    - 1330-20-7 xylene
  - TLV (Threshold Limit Value established by ACGIH)
    - 1330-20-7 xylene
  - 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 Danger

Hazard-determining components of labeling:
- xylene

Hazard statements
- H225 Highly flammable liquid and vapor.
- H332 Harmful if inhaled.
- H315 Causes skin irritation.

Precautionary statements
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- P240 Ground/bond container and receiving equipment.
- P233 Keep container tightly closed.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P264 Wash thoroughly after handling.
- 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.
- P321 Specific treatment (see on this label).
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P312 Call a POISON CENTER/doctor if you feel unwell.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.
### Trade name: AFCONA - 2028

<table>
<thead>
<tr>
<th>HMIS: Hazardous Materials Identification System (USA)</th>
<th>(Contd. of page 9)</th>
</tr>
</thead>
<tbody>
<tr>
<td>VOC: Volatile Organic Compounds (USA, EU)</td>
<td></td>
</tr>
<tr>
<td>LC50: Lethal concentration, 50 percent</td>
<td></td>
</tr>
<tr>
<td>LD50: Lethal dose, 50 percent</td>
<td></td>
</tr>
<tr>
<td>PBT: Persistent, Bioaccumulative and Toxic</td>
<td></td>
</tr>
<tr>
<td>vPvB: very Persistent and very Bioaccumulative</td>
<td></td>
</tr>
<tr>
<td>Flamm. Liq. 2: Flammable liquids, Hazard Category 2</td>
<td></td>
</tr>
<tr>
<td>Acute Tox. 4: Acute toxicity, Hazard Category 4</td>
<td></td>
</tr>
<tr>
<td>Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2</td>
<td></td>
</tr>
</tbody>
</table>

**distributing by:**

![TRiiSO](image)

**Request Quote or Samples**