1: Identification

· 1.1 Product identifier
· Trade name: AFCONA - 2018
· 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

· 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
  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: Warning
· Hazard-determining components of labeling:
  xylene
· Hazard statements
  H226 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)
Trade name: AFCONA - 2018

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.
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.

- 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

- 3.1 Chemical characterization: Substances
  - CAS No. Description
    - 1330-20-7 xylene
  - Identification number(s)
    - EC number: 215-535-7
    - Index number: 601-022-00-9
- 3.2 Chemical characterization: Mixtures
  - Description: Mixture of the substances listed below with nonhazardous additions.
  - Dangerous components:
    - 1330-20-7 xylene 50-100%

4: First-aid measures

- 4.1 Description of first aid measures
  - General information:
    - Immediately remove any clothing soiled by the product.
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: 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.

- Control parameters
  - Components with limit values that require monitoring at the workplace:
    - 1330-20-7 xylene
      - PEL Long-term value: 435 mg/m³, 100 ppm
      - REL Short-term value: 655 mg/m³, 150 ppm
        Long-term value: 435 mg/m³, 100 ppm
      - TLV Short-term value: 651 mg/m³, 150 ppm
        Long-term value: 434 mg/m³, 100 ppm
      - BEI

- Ingredients with biological limit values:
  - 1330-20-7 xylene
    - BEI 1.5 g/g creatinine
      Medium: urine
      Time: end of shift
      Parameter: Methylhippuric acids

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

- 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/substance/preparation.
      Due to missing tests no recommendation to the glove material can be given for the product/preparation/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.
## 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### General Information

- **Appearance:** Fluid
- **Color:** Colorless
- **Odor:** Characteristic
- **Odour threshold:** Not determined.
- **pH-value:** Not determined.

#### Change in condition

- **Melting point/Melting range:** -34 °C (-29 °F)
- **Boiling point/Boiling range:** 137 °C (279 °F)

- **Flash point:** 25 °C (77 °F)
- **Flammability (solid, gaseous):** Not applicable.
- **Ignition temperature:** 500 °C (932 °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 °C (68 °F):

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.7 kPa (5 mm Hg)</td>
<td></td>
</tr>
</tbody>
</table>

#### Density at 20 °C (68 °F):

- **0.87 g/cm³ (7.26 lbs/gal)**

#### Density at 20 °C (68 °F):

- **Relative density** Not determined.
- **Vapour density** Not determined.
- **Evaporation rate** Not determined.

#### Solubility in / Miscibility with Water at 20 °C (68 °F):

- **0.2 g/l**

#### Partition coefficient (n-octanol/water):

- **Not determined.**

#### Viscosity:

- **Dynamic:** Not determined.
- **Kinematic:** Not determined.

#### Solvent content:

- **Organic solvents:** 98.0 %
- **VOC content:** 98.0 %
- **852.6 g/l / 7.12 lb/gl**

#### Solids content:

- **2.0 %**

### 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:
    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 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
    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 mixture
  - ADR
    1866 Resin solution mixture
  - IMDG, IATA
    RESIN SOLUTION mixture

- 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
    III

- 14.5 Environmental hazards:
  - Marine pollutant:
    No

- 14.6 Special precautions for user
  - Warning: Flammable liquids
  - Danger code (Kemler):
    30
  - EMS Number:
    F-E,S-D
  - Stowage Category
    A

- 14.7 Transport in bulk according to Annex II of MARPOL73/78 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)

5L
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 MIXTURE, 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.

Section 313 (Specific toxic chemical listings):
1330-20-7 xylene

TSCA (Toxic Substances Control Act):
1330-20-7 xylene

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 Warning

Hazard-determining components of labeling:
xylene

Hazard statements
H226 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.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
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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.

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

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
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
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

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