1: Identification

1.1 Product identifier

- Trade name: AFCONA - 2720
- 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.

- GHS08 Health hazard
  Carc. 2 H351 Suspected of causing cancer.
  Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

- GHS07
  Skin Sens. 1 H317 May cause an allergic skin reaction.

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
- GHS08

- Signal word Danger

- Hazard-determining components of labeling:
  Distillates (petroleum), hydrotreated light
  Solvent naphtha (petroleum), light arom.

(Contd. on page 2)
Trade name: AFCONA - 2720

2-butanone oxime

- **Hazard statements**
  - H226 Flammable liquid and vapor.
  - H317 May cause an allergic skin reaction.
  - H351 Suspected of causing cancer.
  - H304 May be fatal if swallowed and enters airways.

- **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.
  - P233 Keep container tightly closed.
  - P242 Use only non-sparking tools.
  - P243 Take precautionary measures against static discharge.
  - P272 Contaminated work clothing must not be allowed out of the workplace.
  - P201 Obtain special instructions before use.
  - P202 Do not handle until all safety precautions have been read and understood.
  - P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
  - 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).
  - P363 Wash contaminated clothing before reuse.
  - P308+P313 IF exposed or concerned: Get medical advice/attention.
  - P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
  - P331 Do NOT induce vomiting.
  - P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.
  - P405 Store locked up.
  - 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 = 3
    - Reactivity = 0
  - HMIS-ratings (scale 0 - 4)
    - HEALTH Health = 0
    - FIRE Fire = 3
    - REACTIVITY 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:**
  - 64742-47-8 Distillates (petroleum), hydrotreated light 25-50%
  - 64742-95-6 Solvent naphtha (petroleum), light arom. 10-25%
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 and be sure to call for a doctor.
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: 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.
Open and handle receptacle with care.
Prevent formation of aerosols.
Information about protection against explosions and fires:
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Keep respiratory protective device available.

7.2 Conditions for safe storage, including any incompatibilities
Storage:
Requirements to be met by storerooms and receptacles: No special requirements.
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:
    The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· 8.2 Exposure controls
  · 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.
    Store protective clothing separately.

· 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
Safety Data Sheet  
acc. to OSHA HCS  

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

Trade name: AFCONA - 2720

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odour threshold</td>
<td>Not determined.</td>
</tr>
<tr>
<td>pH-value</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Change in condition</td>
<td></td>
</tr>
<tr>
<td>Melting point/Melting range</td>
<td>Undetermined.</td>
</tr>
<tr>
<td>Boiling point/Boiling range</td>
<td>155 °C (311 °F)</td>
</tr>
<tr>
<td>Flash point</td>
<td>26 °C (79 °F)</td>
</tr>
<tr>
<td>Flammability (solid, gaseous)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Ignition temperature</td>
<td>210 °C (410 °F)</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Auto igniting</td>
<td>Product is not selfigniting.</td>
</tr>
<tr>
<td>Danger of explosion</td>
<td>Product is not explosive. However, formation of explosive air/vapor mixtures are possible.</td>
</tr>
<tr>
<td>Explosion limits</td>
<td></td>
</tr>
<tr>
<td>Lower</td>
<td>0.5 Vol %</td>
</tr>
<tr>
<td>Upper</td>
<td>7.5 Vol %</td>
</tr>
<tr>
<td>Vapor pressure at 20 °C (68 °F):</td>
<td>5 hPa (4 mm Hg)</td>
</tr>
<tr>
<td>Density at 20 °C (68 °F):</td>
<td>0.83 g/cm³ (6.926 lbs/gal)</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Vapour density</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Solubility in / Miscibility with Water</td>
<td>Not miscible or difficult to mix.</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water)</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Viscosity</td>
<td></td>
</tr>
<tr>
<td>Dynamic</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Kinematic</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Solvent content</td>
<td></td>
</tr>
<tr>
<td>Organic solvents</td>
<td>59.6 %</td>
</tr>
<tr>
<td>VOC content</td>
<td>59.6 %</td>
</tr>
<tr>
<td>494.7 g/l / 4.13 lb/gl</td>
<td></td>
</tr>
<tr>
<td>Solids content</td>
<td>40.0 %</td>
</tr>
</tbody>
</table>

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
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.
Trade name: AFCONA - 2720

- LD/LC50 values that are relevant for classification:

<table>
<thead>
<tr>
<th></th>
<th>LD50</th>
<th>LC50/4 h</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>&gt;6800 mg/kg (rat)</td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td>&gt;3400 mg/kg (rab)</td>
<td></td>
</tr>
<tr>
<td>Inhalative</td>
<td>&gt;10.2 mg/l (rat)</td>
<td></td>
</tr>
</tbody>
</table>

- 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:
  - May cause an allergic skin reaction.

- Additional toxicological information:
  - Carcinogenic categories
    - IARC (International Agency for Research on Cancer)
      - None of the ingredients is listed.
    - 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 3 (Self-assessment): extremely hazardous for water
    - Do not allow product to reach ground water, water course or sewage system, even in small quantities.
    - Danger to drinking water if even extremely 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

(Contd. on page 7)
14.3 Transport hazard class(es)

- **DOT**
  - Class: 3 Flammable liquids
  - Label: 3

14.4 Packing group

- **DOT, ADR, IMDG, IATA**
  - Class: 3 Flammable liquids
  - Label: 3

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-E
- Stowage Category: A

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

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):
- 64742-47-8 Distillates (petroleum), hydrotreated light
- 64742-95-6 Solvent naphtha (petroleum), light arom.
- 96-29-7 2-butanone oxime

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

- Signal word Danger
- Hazard-determining components of labeling:
  Distillates (petroleum), hydrotreated light
  Solvent naphtha (petroleum), light arom.
  2-butanone oxime
- Hazard statements
  H226 Flammable liquid and vapor.
  H317 May cause an allergic skin reaction.
  H351 Suspected of causing cancer.
  H304 May be fatal if swallowed and enters airways.
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  P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
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P331 Do NOT induce vomiting.
P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.
P405 Store locked up.
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.

- Department issuing SDS: Product safety department.
- Contact: Mr. Saw Eng Nee
- Date of preparation / last revision 10/27/2015 / -

- 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
  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
  Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
  Carc. 2: Carcinogenicity, Hazard Category 2
  Asp. Tox. 1: Aspiration hazard, Hazard Category 1