1: Identification

1.1 Product identifier

Trade name: AFCONA - 2722

Application of the substance / the mixture
Paint Additives
Not applicable

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

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

GHS07

Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2A H319 Causes serious eye irritation.
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

(Contd. on page 2)
Safety Data Sheet
acc. to OSHA HCS

Trade name: AFCONA - 2722

· Hazard-determining components of labeling:
  Pine Oil
  Solvent naphtha (petroleum), light arom.

· Hazard statements
  H226 Flammable liquid and vapor.
  H315 Causes skin irritation.
  H319 Causes serious eye irritation.
  H317 May cause an allergic skin reaction.
  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.
  P261 Avoid breathing dust/fume/gas/mist/vapors/spray
  P280 Wear protective gloves / eye protection / face protection.
  P240 Ground/bond container and receiving equipment.
  P272 Contaminated work clothing must not be allowed out of the workplace.
  P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
  P303+P361+P338 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
  P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  P321 Specific treatment (see on this label).
  P363 Wash contaminated clothing before reuse.
  P333+P331+P338 If skin irritation or rash occurs: Get medical advice/attention.
  P337+P331+P338 If eye irritation persists: Get medical advice/attention.
  P331 Do NOT induce vomiting.
  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.
  P405 Store locked up.
  P403+P333+P335+P338 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 = 2
  Reactivity = 0

· HMIS-ratings (scale 0 - 4)
  Health = 1
  Fire = 2
  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.
Trade name: AFCONA - 2722

<table>
<thead>
<tr>
<th>Dangerous components:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>8002-09-3 Pine Oil</td>
<td>25-50%</td>
</tr>
<tr>
<td>108-65-6 2-methoxy-1-methylethyl acetate</td>
<td>10-25%</td>
</tr>
<tr>
<td>64742-95-6 Solvent naphtha (petroleum), light arom.</td>
<td>10-25%</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 and to be sure 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. If symptoms persist, consult a doctor.
  - 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

8.1 Control parameters
   - Additional information about design of technical systems: No further data; see item 7.

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 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: 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: 42 °C (108 °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: 0.7 Vol %
  - Upper: 10.8 Vol %
- Vapor pressure at 20 °C (68 °F): 5 hPa (4 mm Hg)
- Density at 20 °C (68 °F): 0.91 g/cm³ (7.594 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.
- Solvent content:
  - Organic solvents: 27.2 %
  - VOC content: 72.7 %
  - 661.6 g/l / 5.52 lb/gl
- Solids content: 27.3 %

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.
- Possibility of hazardous reactions: No dangerous reactions known.
- Conditions to avoid: No further relevant information available.
- Incompatible materials: No further relevant information available.

(Contd. on page 6)
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:

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

- Primary irritant effect:
  - on the skin: Causes skin irritation.
  - on the eye: Causes serious eye irritation.
  - 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.
- Persistence and degradability: No further relevant information available.
- Bioaccumulative potential: No further relevant information available.
- 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.
  - Results of PBT and vPvB assessment
    - PBT: Not applicable.
    - vPvB: Not applicable.
  - 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.
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, ENVIRONMENTALLY HAZARDOUS
  - IMDG, IATA: RESIN SOLUTION

- **14.3 Transport hazard class(es)**
  - DOT
    - Class: 3
    - Label: 3
  - ADR
    - Class: 3
    - Label: 3
  - IMDG, IATA
    - Class: 3
    - Label: 3

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

- **14.5 Environmental hazards:**
  - Marine pollutant: No
  - Special marking (ADR): Symbol (fish and tree)

- **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 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
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):**

- 8002-09-3 Pine Oil
- 108-65-6 2-methoxy-1-methylethyl acetate
- 64742-95-6 Solvent naphtha (petroleum), light arom.

**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

GHS02  GHS07  GHS08

• Signal word Danger

• Hazard-determining components of labeling:
Pine Oil
Solvent naphtha (petroleum), light arom.

• Hazard statements
H226 Flammable liquid and vapor.
H315 Causes skin irritation.
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• 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.
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.
P272 Contaminated work clothing must not be allowed out of the workplace.
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.
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P331 Do NOT induce vomiting.
P337 + P378 In case of fire: Use for extinction: CO2, powder or water spray.
P362 + P364 Take off contaminated clothing and wash it before reuse.
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
Trade name: AFCONA - 2722

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
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
Asp. Tox. 1: Aspiration hazard, Hazard Category 1

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