

1. Identification of the substance/mixture and of the company/undertaking

Product identifier

Trade name: **AT-08**

Article number: ushelt08

Details of the supplier of the safety data sheet

Manufacturer/Supplier:

HF Altimilia Fluoro Chemical Co.,Ltd.

2F-1, 286-4, Xinya Rd., Qianzhen Dist., Kaohsiung City 806, Taiwan (R.O.C.)

FAX : 886-7-8216380

Further information obtainable from: www.hfaf.com.tw

Emergency telephone number:

TEL : 886-7-8216339

2. Hazard identification

· Classification of the substance or mixture

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements)

· Hazard pictograms: -

· Signal word: -

· Hazard statements: -

· Precautionary statements: -

· Other hazards: On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

3. Composition/information on ingredients

· Chemical characterization: Substances

Information not relevant.

· Mixtures: The product does not contain substances classified as being hazardous to human health or the environment pursuant to the provisions Regulation (EU) 1272/2008 (CLP) (and subsequent amendments and supplements) in such quantities as to require the statement.



4 First aid measures

- **Description of first aid measures**

Not specifically necessary. Observance of good industrial hygiene is recommended.

- **Most important symptoms and effects, both acute and delayed.**

No episodes of damage to health ascribable to the product have been reported.

- **Indication of any immediate medical attention and special treatment needed.**

Information not available.

5 Firefighting measures

- **Extinguishing media**

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

- Special hazards arising from the substance or mixture. HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

6. Accidental release measures

- **Personal precautions, protective equipment and emergency procedures.**

Use breathing equipment if fumes or powders are released into the air. These indications apply for both processing staff and those involved in emergency procedures.

- **Environmental precautions.**

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

- **Methods and material for containment and cleaning up.**

Confine using earth or inert material. Collect as much material as possible and eliminate the rest using jets of water. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

- **Reference to other sections.**

Any information on personal protection and disposal is given in sections 8 and 13



7. Handling and storage

· Precautions for safe handling.

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use.

· Conditions for safe storage, including any incompatibilities.

Keep the product in clearly labelled containers. Keep containers away from any incompatible materials, see section 10 for details.

· Specific end use(s).

Information not available.

8. Exposure controls/personal protection

· Control parameters.

Information not available.

· Exposure controls.

Comply with the safety measures usually applied when handling chemical substances. HAND PROTECTION

None required. SKIN PROTECTION

None required. EYE PROTECTION

None required. RESPIRATORY PROTECTION

Use a type P filtering facemask (see standard EN 149) or equivalent device, whose class (1, 2 or 3) and effective need, must be defined according to the outcome of risk assessment. ENVIRONMENTAL EXPOSURE CONTROLS.

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

9. Physical and chemical properties

· Information on basic physical and chemical properties.

Appearance Dense Liquid

Colour White

Odour characteristic

Odour threshold. Not available.

pH. 7-9



Melting point / freezing point.	Not available.
Initial boiling point.	100 °C.
Boiling range.	Not available.
Flash point.	65°C.
Evaporation Rate	Not available.
Flammability of solids and gases	Not available.
Lower inflammability limit.	Not available.
Upper inflammability limit.	Not available.
Lower explosive limit.	Not available.
Upper explosive limit.	Not available.
Vapour pressure.	Not available.
Vapour density	Not available.
Relative density.	Not available.
Solubility	Miscible in water
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature.	Not available.
Decomposition temperature.	Not available.
Viscosity	Not available.
Explosive properties	Not available.
Oxidising properties	Not available.

• **Other information.**

Information not available.

10. Stability and reactivity

• **Reactivity.**

There are no particular risks of reaction with other substances in normal conditions of use.

• **Chemical stability.**

The product is stable in normal conditions of use and storage.

• **Possibility of hazardous reactions.**

No hazardous reactions are foreseeable in normal conditions of use and storage.

• **Conditions to avoid.**

None in particular. However the usual precautions used for chemical products should be respected.

• **Incompatible materials.**

Information not available.

• **Hazardous decomposition products.**

Information not available.



11. Toxicological information

· Information on toxicological effects.

Information not available.

12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

· Toxicity.

Information not available.

· Persistence and degradability.

Information not available.

· Bioaccumulative potential.

Information not available.

· Mobility in soil.

Information not available.

· Results of PBT and vPvB assessment.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

· Other adverse effects.

Information not available.

13. Disposal considerations

· Waste treatment methods.

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

14. Transport information

· UN number. Not

applicable.

· UN proper shipping name.

Not applicable.

· Transport hazard class(es).

Not applicable.



· Packing group.

Not applicable.

· Environmental hazards.

Not applicable.

· Special precautions for user.

Not applicable.

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

Information not relevant.

15. Regulatory information

**· Safety, health and environmental regulations/legislation specific for the substance or mixture. Seveso
category.**

None.

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC
Regulation 1907/2006.

None.

Substances in Candidate List (Art. 59 REACH).

None.

Substances subject to authorisation (Annex XIV REACH).

None.

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None.

Substances subject to the Rotterdam Convention:

None.

Substances subject to the Stockholm Convention:

None.

Healthcare controls.

Information not available.

· Chemical safety assessment.

No chemical safety assessment has been processed for the mixture and the substances it contains.

16. Other information

· LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)



- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

· GENERAL BIBLIOGRAPHY

1. Regulation (EU) 1907/2006 (REACH) of the European Parliament
2. Regulation (EU) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
4. Regulation (EU) 2015/830 of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament



- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- ECHA website

• **Note for users:**

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

• **Changes to previous review:**

The following sections were modified: 09.

