



MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME :HW-1000
PRODUCT DESCRIPTION : A/C Tube Cleaning agent
MANUFACTURER / SUPPLIER : Why Wait Machinery CO., LTD.
ADDRESS : NO.5, Alley 10, Lane 261, Hsintsu Rd., Wufeng Dist., Taichung City, Taiwan, 41354
EMERGENCY PHONE : 886-4-23330640 886-4-2333-4576
FACSIMILE : 886-4-23330539
PREPARED BY : Industrial cleaner division

2. COMPOSITION / INFORMATION ON INGREDIENTS

MIXING

CHEMICAL CHARACTERISTICS :		
HAZARDOUS COMPONENTS NAME	CONCENTRATION / PERCENTAGE	HAZARD SYMBOLS
C ₅ -C ₉ Paraffins	< 60%	/
Naphthenes	< 50%	/
Aromatics	< 0.5%	/
Addtives	< 2%	/

3. HAZARDOUS IDENTIFICATION

MAJOR HAZARD EFFECT :
HAZARD WARNINGS FOR HEALTH : May cause lung damage if swallowed.
HAZARD WARNINGS FOR ENVIRONMENT : -
PHYSICAL AND CHEMICAL DANGEROUS : Flammable when temperature above the flash point.
SPECIAL HARM : -
MAJOR STATE : -
HAZARD CATEGORY : -

4. FIRST AID MEASURES

EMERGENCY AND FIRST AID PROCEDURES :
<ul style="list-style-type: none"> ● INHALATION : 1. Remove the affected victim from exposure immediately. 2. Using proper respiratory protection. ● SKIN CONTACT : 1. Flush with large amounts of water, use soap if available. 2. Remove grossly contaminated clothing, shoes, and launder before reuse. ● EYE CONTACT : 1. Flush eyes with large amounts of water until irritation subsides. 2. If irritation persists, get medical attention. ● INGESTION : 1. If swallowed, do not induce vomiting. 2. Keep at rest, get prompt medical attention.

MAJOR SYMPTOM AND HARMFUL EFFECT : –
FIRST – AID PERSONAL PROTECTION : Wear safety glasses, respirator and chemical resistant gloves.
HINT TO DOCTOR : –

5. FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA : Carbon dioxide, powder and foam extinguisher.
SPECIAL EXPOSURE HAZARD : None
SPECIAL EXTINGUISHING PROCEDURE : 1. Use water spray to cool fire exposed surface and protect personnel. 2. Shut off fuel to fire. 3. Avoid spraying water directly into storage containers due to danger of boilover. Either allow fire to burn under controlled conditions or extinguish with foam or dry chemical.
SPECIAL PROTECTIVE EQUIPMENT : –

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS : 1. Avoid contact with skin, eyes and clothing. 2. Wearing personal protective equipment.
ENVIRONMENTAL PRECAUTIONS : 1. Contain spilled with sand or earth. 2. Prevent product getting into drains or water courses. 3. Advise authorities if necessary.
CLEAN UP METHODS : Absorb onto sand or other absorbent material. Dispose of as solid waste in accordance with local regulations, e. g. incinerate

7. HANDLING AND STORAGE

HANDLING : Avoid contact with skin, eyes and clothing.
STORAGE : Keep container tightly, storage in cool and dry place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROL : Ventilation is recommended.
CONTROL FACTOR : <ul style="list-style-type: none"> ● TWA/STEL/CEILING : N/E ● BIOTIC INDEX : N/E
PERSONAL PROTECTION EQUIPMENT : <ul style="list-style-type: none"> ● RESPIRATORY PROTECTION : It is recommended to use a half face filter mask to protect from overexposure by inhalation. ● HAND PROTECTION : Wear chemical resistant gloves. ● EYE PROTECTION : Safety glasses with side-shields . ● SKIN & BODY PROTECTION : Wear workclothes protecting arms, legs and body.
HYGIENE PROCEDURE : 1. Do not smoking and eating in work place. 2. Washing hand whenever after handle this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE : Liquid	FORM : Liquid
COLOR : Clear colorless	ODOUR : Light paraffinic odour
pH VALUE : –	BOILING POINT / BOILING RANGE : 66-71 °C
DECOMPOSITION TEMPERATURE : N/E	FLASH POINT (°C) : <0°C TEST METHOD : <input type="checkbox"/> OPEN CUP <input checked="" type="checkbox"/> CLOSED CUP

AUTO-IGNITION TEMPERATURE : >200 °C	EXPLOSION LIMIT (%) : LEL 1.8 UEL 11.6
VAPOR PRESSURE : 150/20°C mmHg psi	VAPOR DENSITY : >1
SPECIFIC GRAVITY (15°C) : 0.68 ± 0.005	SOLUBILITY IN WATER <0.1 %

10. STABILITY AND REACTIVITY

STABILITY : <input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable
SPECIAL CONDITIONS OF HAZARDOUS REACTION : None
CONDITIONS TO AVOID : Fire and high temperature
MATERIALS TO AVOID : Strong oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS : None

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY : Inhalation – High vapor concentration may cause headaches and dizziness, could be anesthetic and may have other central nervous system effects. Eye contact – Will cause eye discomfort, but will not injure eye tissue. Skin contact – Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.. Ingestion – Minimal toxicity and may cause bronchopneumonia or pulmonary edema.
LOCAL EFFECT : –
SENSITIVE : –
LONG TERM TOXICITY : –
SPECIAL EFFECT : –

12. ECOLOGICAL INFORMATION

POSSIBILITY OF ENVIRONMENTAL EFFECT / MOVEMENT : 1. This product can degrade rapidly in air. 2. This product is expected to be removed in a wastewater treatment facility.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD : 1. Collection. 2. Care should in any case be taken to ensure compliance with national and local regulations.

14. TRANSPORT INFORMATION

INTERNATIONAL TRANSPORT REGULATION : None	UN NUMBER : 3295 (CAS NO. 110-54-3)
LOCAL TRANSPORT REGULATION : None	
SPECIAL TRANSPORT WAY AND NOTE : –	

15. REGULATORY INFORMATION

APPLY REGULATION : –

NOTE : THIS INFORMATION IS ONLY TO THE BEST OF OUR COMPANY'S KNOWLEDGE AND AS OF THE DATE INDICATED. HOWEVER, NO REPRESENTATION, WARRANTY OR GUARANTEE IS MADE AS TO ITS ACCURACY, RELIABILITY OR COMPLETENESS.