


# MATERIAL SAFETY DATA SHEET (MSDS)

## 1. Identification of the substance/mixture and of the company/undertaking product identifier

- Product : NEW W-400H
- Recommended use of the chemical and restrictions on use :
  - Recommended use : For PVC tile and sheet adhesive
  - Restrictions on use : NO DATA
- MANUFACTURED / SUPPLIER
  - COMPANY : HWA SUNG COMPANY, L.T.D
  - FACTORY ADDRESS : 26, Sanmakgongdanbuk 2-gil, Yangsan-si, Gyeongsangnam-do, Korea
  - Information offering service or emergency number :  
Tel) ) +82 55 389 1155 / Fax) +82 55 387 2709
  - Revision number and date : 10-21-2019 (REVISION 03)

## 2. HAZARDS Identification

- Hazard/Risk Classification
  - Serious eye damage/irritation : category 2
- Pictogram  

- Signal Word : Warning
- Hazard Statement
  - H302 Harmful if swallowed.
  - H312 Harmful in contact with skin.
  - H319 Causes serious eye irritation.
- Precautionary Statements (Prevention)
  - P264 Wash ... thoroughly after handling

- P270 Do not eat, drink or smoke when using this product.
- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P281 Wear properly protective gloves/protective clothing/eye protection/face protection
- Precautionary Statements (Response)
  - P301+P312 IF SWALLOWED : Immediately call a POISON CENTER/ doctor/
  - P330 Rinse mouth.
  - P302 + P352 IF ON SKIN : Wash with plenty of water.
  - P312 Call a POISON CENTER/doctor./...if you feel unwell
  - P322 Specific action.
  - P363 Wash contaminated clothing before reuse.
  - P305+P351+P338 IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - P337+P313 If eye irritation persists: Get medical advise/attention.
- Storage
  - P410+P403 Protect from sunlight. Store in a well-ventilated place. Avoid direct sunlight
  - Store protected against freezing.
- Precautionary Statements (Disposal)
- P501 Dispose of contents/container to hazardous or special waste collection point.
- Other Hazard/Risk which are not included in the classification criteria.
  - NFPA RAKINGS (SCALE 0-4): HEALTH=0 FIRE=0 REACTIVITY=0

### 3. Composition/Information on Ingredients Mixtures

- Composition 1
  - Acrylate copolymer
  - content : 60.0 ~ 63.0 wt%
  - Cas. No : 38810-51-4
  -
- Composition 2
  - Filler
  - content : 25.0 ~ 27.0 wt%
  - Cas No. : 13397-26-7
  -
- Composition 3
  - ROSIN
  - content : 10 ~ 13 wt%
  - Cas No. : 8050-09-7
  -
- Composition 4
  - WATER
  - content : 1 ~ 2 wt%
  - Cas No. : 7732-18-5
  -
- Composition 5
  - Antifoaming agent
  - content : < 1 wt%
  - Cas No. : 63148-62-9

### 4. First-Aid Measure

- On contact with eyes:
  - Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.
- On skin contact:
  - Remove contaminated clothing.

- wash affected eyes for at least 15 minutes under running water
- If skin irritation occurs: Get medical advice/ attention.
- Take off contaminated clothing and wash it before reuse.
- If inhaled:
  - Keep patient calm, remove to fresh air, seek medical attention..
  - Stop breathing, try artificial respiration.
  - Get immediate medical advice/ attention
- On ingestion:
  - Do not induce vomiting and rinse mouth.(KEEP AWAKE)  
Immediately call a doctor.
  - Don't feed (In case of unconscious person)
- Most important symptoms and effects, both acute and delayed
  - inhaled
    - Short – term exposure : irritation
    - Protracted exposure : irritation,  
No data available about important side effect.
  - Skin contact
    - Short – term exposure : irritation
    - Protracted exposure : irritation,  
No data available about important side effect.
  - Eye contact
    - Short – term exposure : irritation
    - Protracted exposure : irritation,  
No data available about important side effect.
  - Intake
    - Short – term exposure : nausea, vomit, gastralgia
    - Protracted exposure : No data available about important side effect.
- Indication of immediate medical attention and notes for physician
  - There is no specific antidote
  - According to symptoms, treat the patient supportively

## 5. Fire-Fighting Measures

- Suitable extinguishing media : water spray, dry powder, foam, carbon dioxide
- Unsuitable extinguishing media : No data available.
- Specific hazards arising from the chemical
  - Thermal decomposition products : carbon oxide, nitrous oxide.
  - Fire and explosion risk : nothing or slight
- special protective equipment and precaution for fire-fighters:
  - Full firefighting turn-out gear (bunker gear).
  - Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply.
  - Any self-contained breathing apparatus with a full facepiece.

## 6. Accidental Release Measures

- Personal precautions, protective equipment and emergency procedures
  - Use personal protective clothing. Avoid contact with skin and eyes. Avoid inhaled.
- Environmental precautions
  - The atmosphere : No data available
  - Soil : No data available
  - Underwater : No data available
- Methods and material for containment and cleaning up
  - Spills
    - Stop leak if you can do it without risk.
    - Keep unnecessary people away, isolate hazard area and deny entry.
    - Isolate contamination area.
    - Keep unnecessary people away, isolate hazard area and deny entry.
    - Block the other ignition source.
  - For small spills : Pick up with suitable absorbed material (e.g. sand, sawdust, general-purpose binder, kieselguhr). Dispose of absorbed material in accordance with regulation.

## **7. Handling and Storage**

- Precautions for safe handling :
  - Wear protective Gear.(clothing/goggles/ gloves)
  - Use only outdoors or in a well-ventilated area.
  - Do not handle until all safety precautions have been read and understood.
- Conditions for safe storage, including any incompatibilities :
  - The term of guarantee : 6 month (Conditions : At room temperature, normal pressure)
  - Storage protected against freezing.
  - Caution about restricted material
  - Keep container tightly closed.
  - Protect from sunlight.
  - Store the products in a well-ventilated place
  - Obey the relevant regulations
  - Keep away from heat/ sparks/ open flames/ hot surface. No smoking

## **8. Exposure Controls/Personal Protection**

- Control parameters (e.g. occupational exposure limit values, biological limit values) :
  - No occupational exposure limits established by OSHA, ACGIH, or NOIOSH.
- Appropriate engineering controls  
Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.
- Personal protective equipment
  - Eye protection :
    - Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.
  - Respiratory protection  
Don't inhale dust and vapor.

Under conditions of frequent use or heavy exposure, respiratory protection may be needed.

Respiratory protection is ranked in order from minimum to maximum.

- Hand protection : Wear appropriate chemical resistant gloves.
- Body protection : Wear appropriate chemical resistant clothing.

## 9. Physical and Chemical Properties

• Appearance :	cream type
• Color :	White
• Odor :	faint aromatic
• Odour threshold :	No data available
• pH :	7.0 ± 1.0
• Melting point :	No data available
• The first stage boiling point & boiling point range :	No data available
• Flash point (°C) :	above 100°C
• Evaporation rate :	No data available
• Flash point :	No data available
• Flammability :	No data available
• Upper/lower flammability or explosive limits :	No data available
• Vapour pressure :	No data available
• Solubility in Water :	soluble
• Reactive vapour density (air) :	No data available
• Specific gravity :	1.2 ± 0.2
• Partitioning coefficient n-octanol/water :	No data available
• Thermal decomposition :	No data available
• Viscosity :	cream type cps/25 °C
• Solids content :	75 ± 3 (wt%)
• Molecular weight :	No data available

## 10. Stability and Reactivity

- Chemical stability : Stable under normal temperatures and pressures.

- Hazardous polymerization has not been reported to occur under normal temperatures and pressures.
- Conditions to avoid
  - Avoid heat, flames, sparks and other sources of ignition.
- Material to avoid
  - Oxidizing agent, Reducing agent.
  - Avoid a strong acid and a strong alkali
- Thermal decomposition products : carbon oxide, nitrogenous compound

## 11. Toxicological Information

- Information on the likely routes of exposure :
  - Inhalation : No data available
  - Ingestion : No data available
  - Skin contact : No data available
  - Eyes contact : No data available
- Health hazards information
  - Acute toxicity
    - Oral : Unclassed
    - Percutaneous : Unclassed
    - Inhale : Unclassed
  - Skin corrosion/irritation : unclassified
  - Serious eye damage/irritation : category 2
  - Acute exposure, chronic exposure : No data available
  - Respiratory sensitization : unclassified
  - Skin sensitization : unclassified
  - Carcinogenicity : nothingness
    - Industrial Safety and Health Act : No
    - OSHA : No
    - NTP : No
    - IARC : No
  - Germ cell mutagenicity : unclassified
  - Reproductive toxicity : unclassified

- Specific target organ toxicity (single exposure) : unclassified
- Specific target organ toxicity (repeated exposure) : unclassified
- Aspiration hazard : unclassified

## 12. Ecological Information

- Aquatic and terrestrial ecotoxicity : No data available
- Persistence and degradability : No data available
- Bioaccumulative potential : No data available
- Mobility in soil : No data available
- Other adverse effects : No data available

## 13. Disposal Considerations

- Waste treatment methods :  
Must be disposed of or incinerated in accordance with local regulations.
- Disposal Considerations  
Observe national and local legal requirements

## 14. Transport Information

- UN number : No classification
- UN proper shipping name : Not applicable
- Transport hazard class(es) : Not applicable
- Packing group : Not applicable
- Marine pollution : Not applicable
- Special precaution which a user to be aware of or needs to comply with in connection with transport or conveyance either within or outside their premises : Not applicable.

## 15. Regulatory Information

- Industrial Safety and Health Act : No data available.
- Toxic Chemical Control Act : No data available.
- Dangerous Material Safety Control Act : No data available.

- Wastes Management Act : Designated waste
- 

## 16. Other Information

- Information source and references :  
Korea Occupational Safety and Health Agency  
National Institute of environmental Research Chemicals information  
Manufacturing company's MSDS
- Issuing date : 07-01-2013
- Revision date : 10-21-2019
- Version : 03
- Other : The data contained in this safety data sheet describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet.