

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Manufacturer's name and address:


The W.W. Henry Company

 400 Ardex Park Drive
 Aliquippa, PA, U.S.A.
 15001

 Information Telephone No. : (724) 203-8499
 Visit our Website: <http://www.wwhenry.com>
24 Hr. Emergency Tel # : CHEM-TEL: 1-800-255-3924 OR 1-813-248-0585 (call collect)

Product Identifier : **Henry 420 Clear VCT Floor Adhesive**
Chemical Name : N/Ap **Chemical Family** : Mixture.

Chemical Formula : N/Ap **Trade Name/Synonyms** : Henry® 420

Molecular Weight : N/Ap **Material Use** : Adhesive for installation of Vinyl Composition Tile (VCT).

WHMIS Classification : This product is not a WHMIS controlled product in Canada.

HMIS Rating : * - Chronic hazard 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe

Health: 1 *Flammability:* 1 *Reactivity:* 0

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

| <u>Ingredients</u> | <u>CAS #</u> | <u>% (weight)</u> | <u>ACGIH TLV</u> | | <u>OSHA PEL</u> | |
|--|--------------|-------------------|--|---|---|-------------|
| | | | <u>TWA</u> | <u>STEL</u> | <u>PEL</u> | <u>STEL</u> |
| Hydrotreated heavy naphthenic distillate | 64742-52-5 | 10.00 - 25.00 | 5 mg/m ³ (As 'Oil mist, mineral') | 10 mg/m ³ (As 'Oil mist, mineral') | 5 mg/m ³ (As 'Oil mist, mineral') | N/Av |
| Kaolin | 1332-58-7 | 3.00 - 7.00 | 2 mg/m ³ (respirable dust) | N/Av | 15 mg/m ³ (total dust); 5 mg/m ³ (respirable fraction) | N/Av |
| Urea | 57-13-6 | 1.00 - 5.00 | 10 mg/m ³ (AIHA WEEL) | N/Av | N/Av | N/Av |

Note:: This product does NOT contain asbestos.

This material is not classified as hazardous under OSHA regulations (29 CFR Part 1910.1200).

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Beige, creamy paste.

Mild odour.

May cause mild respiratory irritation at higher temperatures.

May cause skin and eye irritation.

POTENTIAL HEALTH EFFECTS

Target organs : Eyes, skin, respiratory system and digestive system.

Routes of exposure : *Inhalation:* YES *Skin Absorption:* NO *Skin & Eyes:* YES *Ingestion:* YES

Signs and symptoms of short-term (acute) exposure
Inhalation : If product is heated or mists are formed, inhalation may cause irritation to the nose, throat and respiratory tract.

Skin : May cause mild transient irritation.

Eyes : May cause mild transient irritation.

Ingestion : Ingestion of large amounts may cause stomach irritation. May cause nausea, vomiting, and diarrhea.

Effects of long-term (chronic) exposure

: None reported by the manufacturer.

Conditions aggravated by overexposure

: Pre-existing skin, eye and respiratory disorders.

Carcinogenic status

: See TOXICOLOGICAL INFORMATION, Section 11.

Additional health hazards

: See TOXICOLOGICAL INFORMATION, Section 11.

Potential environmental effects

: See ECOLOGICAL INFORMATION, Section 12.

SECTION 4 - FIRST AID MEASURES

- Inhalation** : If inhaled, move to fresh air. If breathing has stopped, give artificial respiration. If irritation persists, seek prompt medical attention.
- Skin contact** : Remove contaminated clothing. Wash off with soap and plenty of water. If irritation persists, seek prompt medical attention.
- Eye contact** : Flush with plenty of water. If irritation persists, seek prompt medical attention.
- Ingestion** : Never give anything by mouth to an unconscious person. Rinse mouth with water. Do NOT induce vomiting. Have victim drink one to two glasses of water. Get medical attention.
- Notes For Physician** : Treat symptomatically.

SECTION 5 - FIRE FIGHTING MEASURES

Fire hazards/conditions of flammability

: Not flammable under normal conditions of use. However, may ignite if exposed to extreme heat and flame. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.

Flammability classification (OSHA 29 CFR 1910.1200)

: OSHA Combustible Liquid IIIB.

Flash point

: N/Av

Flash point Method

: N/Av

Auto-ignition temperature : N/Av

Lower flammable limit (% by vol.)

: Not applicable.

Upper flammable limit (% by vol.)

: Not applicable.

Oxidizing properties

: None.

Flame Projection Length

: Not applicable.

Flashback observed

: Not applicable.

Explosion data: Sensitivity to mechanical impact / static discharge

: Not expected to be sensitive to mechanical impact or static discharge.

Suitable extinguishing media

: Dry chemical, foam, carbon dioxide and water fog.

Special fire-fighting procedures/equipment

: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame. After fires have been extinguished, carefully clean all equipment and surfaces exposed to fumes.

Hazardous combustion products

: Carbon oxides; nitrogen oxides (NOx); Sulphur oxides; Phosphorus compounds; Hydrocarbons; Aldehydes; Ammonia; other unidentified organic compounds.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Restrict access to area until completion of clean-up. All persons dealing with clean-up should wear the appropriate chemically protective equipment. Refer to point 8 on this Safety Data Sheet, EXPOSURE CONTROLS / PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.
- Environmental precautions** : Do not allow product to enter waterways. Do not allow material to contaminate ground water system.
- Spill response/cleanup** : Ventilate area of release. Eliminate all ignition sources. Stop spill or leak at source if safely possible. Contain material, preventing it from entering sewer lines or waterways. Use inert, non-combustible absorbents to assist the pick up of material. Scrape up product and place it into a container for disposal. Refer to Section 13 for disposal of contaminated material. Residual of product, while still wet, can be cleaned up with warm soapy water. Notify the appropriate authorities as required.

Prohibited materials : None known.

Special spill response procedures

- : If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8002).
- US CERCLA Reportable quantity (RQ): None reported.

SECTION 7 - HANDLING AND STORAGE

- Safe Handling procedures** : Wear suitable protective equipment during handling. Use with adequate ventilation. Training the workers on the potential health hazards associated with product vapor, dust or fume is important. Secondary inhalation exposures could occur when cleaning equipment, or when removing or laundering the clothing. Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Keep away from oxidizing materials. Keep containers tightly closed when not in use. Wash thoroughly after handling.
- Storage requirements** : Store in a cool, dry, well-ventilated area. No smoking in the area. Do not store near any incompatible materials (see Section 10). Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Protect against physical damage.
- Incompatible materials** : See Section 10.
- Special packaging materials** : Always keep in containers made of the same materials as the supply container.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

Ventilation and engineering measures

- : Use with adequate ventilation. Provide adequate cross air circulation. Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.

Respiratory protection

- : Not required under normal conditions of handling. If mists are formed, or in confined spaces, respiratory protection may be required. NIOSH-approved respirators are recommended.

Skin protection

- : Where contact is likely, impervious gloves are recommended. Advice should be sought from glove suppliers.

Eye / face protection

- : If splashing might occur, wear eye protection such as safety glasses with side shields.

Other protective equipment

- : Wear sufficient clothing to prevent skin contact. An eyewash station and safety shower should be made available in the immediate working area.

General hygiene considerations

- : Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Do not eat, drink or smoke when using this product. Clean all equipment and clothing at end of each work shift.

Permissible exposure levels : For individual ingredient exposure levels, see Section 2.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|---|--------------------------|---|------------------------------|
| Physical state | : paste | Appearance | : Beige, creamy paste |
| Odour | : Mild odour. | Odour threshold | : N/Av |
| pH | : 8.9 - 9.5 | | |
| Boiling point | : N/Av | Specific gravity | : N/Av |
| Melting/Freezing point | : N/Av | Coefficient of water/oil distribution | : N/Av |
| Vapour pressure (mmHg @ 20° C / 68° F) | : N/Av | Solubility in water | : dispersible |
| Vapour density (Air = 1) | : N/Av | Evaporation rate (n-Butyl acetate = 1) | : N/Av |
| Volatile organic Compounds (VOC's) | : 1.4 g/L (0.187 oz/gal) | Volatiles (% by weight) | : 57.5 - 59.5 |
| Particle size | : N/Av | General Info. | : No additional information. |

SECTION 10 - REACTIVITY AND STABILITY DATA

- Stability and reactivity** : Stable under the recommended storage and handling conditions prescribed.
- Hazardous polymerization** : Hazardous polymerisation does not occur.
- Conditions to avoid** : Extreme heat.

Materials To Avoid And Incompatibility

: Oxidizing agents.

Hazardous decomposition products

: None known, refer to hazardous combustion products in Section 5.

SECTION 11 - TOXICOLOGICAL INFORMATION

Toxicological data : There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

| <u>Ingredients</u> | <u>LC₅₀(4hr)</u> <u>inh, rat</u> | <u>LD₅₀</u> | |
|--|--|------------------------|-------------------------|
| | | <u>oral</u> | <u>dermal</u> |
| Hydrotreated heavy naphthenic distillate | 2.18 mg/L (mist) | > 5000 mg/kg (rat) | > 2000 mg/kg (rabbit) |
| Kaolin | N/Av | N/Av | N/Av |
| Urea | N/Av | 8471 mg/kg (rat) | > 21,000 mg/kg (rabbit) |

Carcinogenic status : No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

Reproductive effects : None known.

Teratogenicity : None known.

Mutagenicity : None known.

Epidemiology : Not available.

Sensitization to material : Not expected to be a skin or respiratory sensitizer.

Synergistic materials : N/Av

Irritancy : Mild.

other important hazards : See Section 3 for additional information.

SECTION 12 - ECOLOGICAL INFORMATION

Environmental effects : The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.

Important environmental characteristics

: N/Av

Ecotoxicological : No data is available on the product itself.

SECTION 13 - DISPOSAL CONSIDERATIONS

Handling for Disposal : Handle waste according to recommendations in Section 7.

Methods of Disposal : Dispose in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules.

RCRA : If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14 - TRANSPORTATION INFORMATION

| Regulatory Information | UN Number | Shipping Name | Class | Packing Group | Label |
|-----------------------------------|------------------|----------------------|---------------|----------------------|---|
| TDG | None | Not regulated. | Not regulated | None |  |
| TDG Additional information | None. | | | | |
| 49CFR/DOT | None | Not regulated. | Not regulated | None |  |

| | |
|---|-------|
| 49CFR/DOT Additional information | None. |
|---|-------|

SECTION 15 - REGULATORY INFORMATION

Canadian Information:

Canadian WHMIS Classification: *This product is not a WHMIS Controlled Product. It does not meet any of the criteria for a controlled product provided in Part IV of the Controlled Products Regulations (CPR). Refer to Section 1 for a WHMIS Classification for this product.*

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

Canadian Environmental Protection Act (CEPA): *All components of this product are on the Canadian DSL list.*

US Federal Information:

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

CERCLA Reportable Quantity (RQ) (40 CFR 117.302): None reported.

SARA TITLE III: Sec. 313, Toxic Chemicals Notification, 40 CFR 372: This material is not subject to SARA notification requirements, since it does not contain any Toxic Chemical constituents above de minimus concentrations.

US State Right to Know Laws:

California Proposition 65: This product contains chemicals known to the State of California to cause cancer and/or reproductive harm. This product may contain trace levels of the following ingredients: Ethyl acrylate; Ethylbenzene; Crystalline silica, quartz; Naphthalene; Ethylene oxide; 1,4-Dioxane; Acetaldehyde; Propylene oxide.

SECTION 16 - OTHER INFORMATION

Legend

: ACGIH: American Conference of Governmental Industrial Hygienists
 AIHA: American Industrial Hygiene Association
 CAS: Chemical Abstract Services
 CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
 CFR: Code of Federal Regulations
 DOT: Department of Transportation
 DSL: Domestic Substances List
 EPA: Environmental Protection Agency
 IARC: International Agency for Research on Cancer
 LC: Lethal Concentration
 LD: Lethal Dose
 N/Av: Not Available
 N/Ap: Not Applicable
 NIOSH: National Institute of Occupational Safety and Health
 NTP: National Toxicology Program
 OSHA: Occupational Safety and Health Administration
 PEL: Permissible exposure limit
 RCRA: Resource Conservation and Recovery Act
 SARA: Superfund Amendments and Reauthorization Act
 STEL: Short Term Exposure Limit
 TLV: Threshold Limit Values
 TSCA: Toxic Substance Control Act
 TWA: Time Weighted Average
 WEEL: Workplace Environmental Exposure Level
 WHMIS: Workplace Hazardous Materials Identification System

Henry 420 Clear VCT Floor Adhesive

MSDS Preparation Date (dd/mm/yyyy): 20/03/2009

Page 6 of 6

References

- : 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2008.
- 2. International Agency for Research on Cancer Monographs, searched 2009.
- 3. Canadian Centre for Occupational Health and Safety, CCIInfoWeb databases, 2009 (Chempendium, HSDB and RTECs).
- 4. Material Safety Data Sheets from manufacturer.
- 5. US EPA Title III List of Lists - October 2006 version.
- 6. California Proposition 65 List - December 19, 2008 version.

DISCLAIMER OF LIABILITY

The Information presented herein is supplied as a guide to those who handle or use this product and has been prepared in good faith by technically knowledgeable personnel. It is not intended to be all-inclusive. The manner and conditions of use and handling may involve other and additional considerations. Safe work practices must be employed when working with any materials. It is important that the end user makes a determination regarding the adequacy of the safety procedures employed during the use of this product.

No warranty of any kind is given or implied. The W.W. Henry Company will not be liable for any damages, losses, injuries or consequential damages which may result from the use or reliance on any information contained herein. This Material Safety Data Sheet is valid for three (3) years.

Prepared By:

The W.W. Henry Company

400 Ardex Park Drive
Aliquippa, PA, U.S.A.
15001

(724) 203-8499

Visit our Website: <http://www.wwhenry.com>

MSDS Preparation Date (dd/mm/yyyy)

: 20/03/2009

END OF DOCUMENT