



## Safety Data Sheet according to Globally Harmonized System (GHS)

Printing date 2024-02-16

Revision: 2024-02-16

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

- **Product identifier**
- **Trade name:** Vinyl Acetate-Ethylene Redispersible Powder (VAEP)
- **Applicable Models:** DA-1105
- **Synonyms:**  
Vinyl Acetate-Ethylene Powder; Redispersible Vinyl Acetate-Ethylene Powder; Vinyl Acetate-Ethylene Copolymer Powder; Vinyl Acetate-Ethylene Copolymer Redispersible Powder
- **Relevant identified uses of the substance or mixture and uses advised against :**
- **Identified/Recommended uses:**  
Manufacture of industrial substances  
Adhesive  
Binder  
Sealant  
Raw Material for:  
Building and construction binders
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Dairen Chemical Corporation  
18th Floor, No. 223 Songjiang Rd., Zhongshan District  
104072, Taipei, Taiwan  
Tel: +886-2-7752-2800 Fax: +886-2-2509-9619  
www.dcc.com.tw
- **Further information obtainable from:** Respective plant's environmental, health, and safety (EHS) Dept.
- **Emergency telephone number:** +886-2-7752-2800 (08:30-17:30; GMT+8)

### 2 Hazards identification

- **Classification of the substance or mixture:**  
The product is not classified as hazardous according to the Globally Harmonised System (GHS).
- **Label elements:**
- **Hazard pictograms:** None (Not Required) - Not Regulated/Not Hazardous
- **Signal word:** None (Not Required) - Not Regulated/Not Hazardous
- **Hazard statements:** None (Not Required) - Not Regulated/Not Hazardous
- **Other hazard:** May form combustible dust concentrations in air.

### 3 Composition/information on ingredients

- **Mixtures**
- **Description:** Mixture: consisting of the following components.
- **Dangerous Components:** No hazardous component.
- **Non-Hazardous Component(s):**  
Vinyl acetate-ethylene copolymer powder CAS 24937-78-8
- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### 4 First aid measures

- **Description of first aid measures**
- **General information:**  
First aider needs to protect himself.  
No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**  
Rinse cautiously with water for several minutes.

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- If skin irritation continues, consult a doctor.
- **After eye contact:**  
Rinse opened eye for 15 minutes under running water. If symptom persists consult a doctor.
- **After swallowing:**  
Drink 1 or 2 glasses of water.  
Do not induce vomiting; call for medical help immediately.
- **Most important symptoms and effects, both acute and delayed:**  
Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eye, skin, nose, and throat.  
No known chronic or acute health risks.
- **Indication of any immediate medical attention and special treatment needed**  
Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

### 5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** No further relevant information available.
- **Special hazards arising from the substance or mixture**  
When suspended in air, dust can pose an explosion hazard.  
If dust layers are exposed to elevated temperatures, spontaneous combustion may occur.  
Dense smoke is emitted when burned without sufficient oxygen.  
Under certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:  
Carbon monoxide (CO)  
Carbon dioxide (CO<sub>2</sub>)
- **Advice for firefighters**
- **Protective equipment:**  
Wear self-contained respiratory protective device.  
Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves).
- **Additional information**  
Cool endangered receptacles with water spray.  
Do not inhale explosion gases or combustion gases.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Do not breathe dust/fume/gas/mist/vapours/spray.  
Ensure adequate ventilation  
Particular danger of slipping on leaked/spilled product.  
Avoid formation of dust.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Sweep up. Contain spilled material if possible. Collect in suitable and properly labeled containers.  
Pick up and arrange disposal without creating dust.
- **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.

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### 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Wear protective gloves/protective clothing/eye protection/face protection.  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Provide adequate precautions to ignition sources, such as electrical grounding and bonding, inert atmosphere or non-sparking tools.  
Take action to prevent static discharges.  
Minimize dust generation and accumulation.  
Use local exhaust ventilation if dust and aerosol are formed during handling.  
Increased risk of slipping if substance comes into contact with water.  
No special measures required.  
Use personal protective equipment as required.
- **Information about fire - and explosion protection:**  
Normal measures for preventive fire protection.  
When suspended in air, dust can pose an explosion hazard.  
Avoid dust deposit, remove dust regularly.
- **Storage:**
- **Conditions for safe storage, including any incompatibilities**  
Observe precautionary measures against dust explosion.  
Store in a cool location.  
Store in cool, dry place in tightly closed receptacles.
- **Further information about storage conditions:** None.

### 8 Exposure controls/personal protection

- **Control parameters**

**Ingredients with limit values that require monitoring at the workplace:**
**Respirable (inert) dust**

OEL (USA) | Ceiling limit: 5 mg/m<sup>3</sup>

- **Ingredients with biological limit values:**  
The product does not contain any relevant quantities of materials with biological limited values that have to be monitored.
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Do not eat, drink, smoke or sniff while working.  
The usual precautionary measures are to be adhered to when handling chemicals.  
Wash hands before breaks and at the end of work.
- **Respiratory protection:**  
Required when dusts are generated.  
If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.  
Short term filter device:  
Fresh air mask  
Filter A/P2
- **Protection of hands:**



Protective gloves

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The selected protective gloves have to satisfy the specifications of standard EN 374 or its equivalent.

Replace gloves immediately when torn or any change in appearance (dimension, colour, flexibility etc) is noticed.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

Plastic gloves

Rubber 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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:** Not required.

- **Body protection:**

Protective work clothing

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form:

Powder.

Colour:

White to light beige

- **Odour:**

Odourless

- **Odour threshold:**

Not determined.

- **pH-value:**

Not applicable.

- **Melting point/freezing point:**

Undetermined.

- **Initial boiling point and boiling range:**

Undetermined.

- **Flash point:**

Not applicable - Not flammable/Noncombustible

- **Evaporation rate**

Not applicable.

- **Flammability (solid, gas):**

Not determined.

- **Auto-ignition temperature:**

140 °C (18 hr)

- **Decomposition temperature:**

350 °C

- **Ignition temperature:**

Product is not selfigniting.

- **Explosive properties:**

Product does not present an explosion hazard.

- **Explosion limits:**

Lower:

>10 g/m<sup>3</sup>

Upper:

Not determined.

- **Vapour pressure:**

Not applicable.

- **Density:**

0.5-0.6 g/cm<sup>3</sup>

- **Relative density**

Not determined.

- **Vapour density**

Not applicable.

- **Evaporation rate**

Not applicable.

- **Solubility in / Miscibility with water:**

Dispersible.

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- **Partition coefficient: n-octanol/water:** Not determined.
  - **Viscosity:**
    - Dynamic:** Not applicable.
    - Kinematic:** Not applicable.
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## 10 Stability and reactivity

- **Reactivity:** When properly handled and stored, no dangerous reaction is known.
  - **Chemical stability:** This product is stable under prescribed use and storage.
  - **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:**  
Strong oxidizing agents  
Strong acids
  - **Hazardous decomposition products:**  
Aldehyde  
Alcohol  
Acids  
Decomposition products depend upon temperature, air supply and the presence of other materials.
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## 11 Toxicological information

- **Information on toxicological effects**
  - **Acute toxicity** Not classified based on available data.
  - **Skin corrosion/irritation:** Not classified based on available data.
  - **Serious eye damage/eye irritation:** Not classified based on available data.
  - **Respiratory or skin sensitization:** Not classified based on available data.
  - **Germ Cell Mutagenicity:** Not classified based on available data.
  - **Carcinogenicity:** Not classified based on available data.
  - **Reproductive Toxicity:** Not classified based on available data.
  - **Specific Target Organ Toxicity - Single Exposure (STOT SE):** Not classified based on available data.
  - **Specific Target Organ Toxicity - Repeated Exposure (STOT RE):**  
Not classified based on available data.
  - **Aspiration Hazard:**  
Not classified due to lack of data.  
Based on physical properties, not likely to be an aspiration hazard.
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## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** Not classified based on available data.
- **Persistence and degradability** Not easily biodegradable
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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- **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**  
After prior treatment product has to be disposed of in an incinerator for hazardous waste adhering to the regulations pertaining to the disposal of particularly hazardous waste.  
Smaller quantities can be disposed of with household waste.  
Any disposal method should also comply with national, regional, provincial, and local laws.
- **Uncleaned packaging:**
- **Recommendation:**  
Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.  
Packagings that may not be cleansed are to be disposed of in the same manner as the product.  
Disposal must be made according to official regulations.

### 14 Transport information

- **Dangerous Goods classification Status:** Not classified as a dangerous good with respect to transport regulations (IMDG, IATA, ADN, ADR, US DOT).
- **UN-Number**
- **ADR, ADN, IMDG, IATA** None (Not a Dangerous Good)
- **UN proper shipping name**
- **ADR, ADN, IMDG, IATA** None (Not a Dangerous Good)
- **Transport hazard class(es)**
- **ADR, ADN, IMDG, IATA**
- **Class** None (Not a Dangerous Good)
- **Packing group**
- **ADR, IMDG, IATA** None (Not a Dangerous Good)
- **Environmental hazards:**
- **Marine pollutant:** No
- **Special precautions for user** Not applicable.
- **UN "Model Regulation":** None (Not a Dangerous Good)

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Status of global inventories:**  
All component(s) within this product is listed or exempted from the following country's chemical inventory:  
EU - EINECS/NLP  
China - IECSC  
Canada - DSL  
USA - TSCA  
Korea - KECI  
Japan - ENCS  
Mexico - INSQ  
Australia - AICS  
Taiwan - TCSI  
Philippine - PICCS  
Thailand - TECI

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**16 Other information**

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**· Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

**· Sources**

External (M)SDS

Most toxicological and eco-toxicological data are obtained from European Chemical Agency (ECHA)'s public dissemination website.

**· General Disclaimers:**

DCC Group recommends that all the users/customers/recipients to study this Safety Data Sheet (SDS) carefully and understand all the data or any potential hazards associated with this product. Please consult with appropriate expert if necessary. The information herein is provided in good faith and is believed to be accurate on the date of issue. No warranty, expressed or implied, is given. It is the customer's/user's responsibility to ensure that they are complying with local, regional, state, provincial, and/or national laws in using this product, as regulatory requirement may differ at each level. It is also the customer's/user's responsibility to determine the necessary condition required for using this product safely, as actual operating or usage conditions are beyond DCC Group's control. DCC Group will not be responsible for any SDS obtained from elsewhere other than from DCC Group. If you are unsure whether the SDS you have is current or have obtained the SDS from another source; please contact us to obtain the latest version.

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