# Vinamul 8330

| Version | Revision Date: | SDS Number: | Date of last issue: - |
|---|---|---|---|
| 1.0 | 2021/06/28 | 000000034075 | Date of first issue: 2021/06/28 |

## 1. PRODUCT AND COMPANY IDENTIFICATION

| | | |
|---|---|---|
| Product name | : | Vinamul 8330 |
| Product code | : | 000000000021014308 |
| Chemical nature | : | Water-borne polymer emulsion. |

**Manufacturer or supplier's details**

| | | |
|---|---|---|
| Company | : | Celanese (Shanghai) International Trading Co., Ltd<br>赛拉尼斯(上海)国际贸易有限公司 |
| Address | : | 4560 Jinke Road, Zhangjiang, Pudong<br>Shanghai, China 020 201210 |
| Telephone | : | 86-21-38619288 |
| Emergency telephone number | : | CHEMTREC International phone number: +1-703-527 3887,<br>+86 532 8388-9090 (China, 24h) |
| E-mail address | : | HazCom@celanese.com |

**Recommended use of the chemical and restrictions on use**

| | | |
|---|---|---|
| Recommended use | : | For industrial use only. |

## 2. HAZARDS IDENTIFICATION

**Emergency Overview**

| | | |
|---|---|---|
| **Appearance** | : | liquid |
| **Colour** | : | white |
| **Odour** | : | sweet |

Harmful if inhaled.

**GHS Classification**

| | | |
|---|---|---|
| Acute toxicity (Inhalation) | : | Category 4 |

**GHS label elements**

Hazard pictograms :

| | | |
|---|---|---|
| Signal word | : | Warning |
| Hazard statements | : | H332 Harmful if inhaled. |
| Precautionary statements | : | **Prevention:** |

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P271 Use only outdoors or in a well-ventilated area.

**Response:**

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.

**Physical and chemical hazards**

Not classified based on available information.

**Health hazards**

Harmful if inhaled.

**Environmental hazards**

Not classified based on available information.

**Other hazards which do not result in classification**

None known.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Components**

| Chemical name | CAS-No. | Concentration (% w/w) |
|---|---|---|
| Vinyl acetate | 108-05-4 | >= 0.1 -< 0.25 |
| mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | 55965-84-9 | >= 0.0003 -< 0.0025 |

## 4. FIRST AID MEASURES

General advice : Remove contaminated, soaked clothing immediately and dispose of safely
Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.

If inhaled : Consult a physician after significant exposure.
If unconscious, place in recovery position and seek medical advice.

In case of eye contact : Flush eyes with water as a precaution.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

If swallowed : Induce vomiting immediately and call a physician.
Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.

| | | |
|---|---|---|
| Most important symptoms and effects, both acute and delayed | : | Harmful if inhaled. |
| Notes to physician | : | Treat symptomatically. |

## 5. FIREFIGHTING MEASURES

| | | |
|---|---|---|
| Suitable extinguishing media | : | Foam<br>Dry powder<br>Carbon dioxide (CO2)<br>Water spray |
| Unsuitable extinguishing media | : | High volume water jet |
| Specific hazards during firefighting | : | Do not use a solid water stream as it may scatter and spread fire. |
| Specific extinguishing methods | : | The product itself does not burn.<br><br>Standard procedure for chemical fires.<br>Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Special protective equipment for firefighters | : | Wear self-contained breathing apparatus for firefighting if necessary. |

## 6. ACCIDENTAL RELEASE MEASURES

| | | |
|---|---|---|
| Personal precautions, protective equipment and emergency procedures | : | Avoid contact with the skin and the eyes.<br>Use personal protective equipment.<br>Ensure adequate ventilation. |
| Environmental precautions | : | Do not allow material to contaminate ground water system.<br>Do not flush into surface water or sanitary sewer system.<br><br>Prevent product from entering drains.<br>Prevent further leakage or spillage if safe to do so.<br>If the product contaminates rivers and lakes or drains inform respective authorities. |
| Methods and materials for containment and cleaning up | : | Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).<br>Keep in suitable, closed containers for disposal. |

## 7. HANDLING AND STORAGE

**Handling**

| | | |
|---|---|---|
| Advice on protection against | : | Normal measures for preventive fire protection. |

fire and explosion

Advice on safe handling : Avoid inhalation of vapour or mist.
Container may be opened only under exhaust ventilation hood.

Avoid formation of aerosol.
Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Provide sufficient air exchange and/or exhaust in work rooms.
Dispose of rinse water in accordance with local and national regulations.

Avoidance of contact : Water-reactive substances

Not applicable

**Storage**

Conditions for safe storage : Agitate before use
Keep at temperatures between 5°C and 35°C (40°F and 95°F)
Keep tightly closed in a dry and cool place.
Store locked up.
Protect from frost
To maintain product quality, do not store in heat or direct sunlight.

Keep container tightly closed in a dry and well-ventilated place.
Observe label precautions.
Electrical installations / working materials must comply with the technological safety standards.

Further information on storage conditions : Store in a cool place- Protect from freezing

Further information on storage stability : No decomposition if stored and applied as directed.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Components with workplace control parameters**

| Components | CAS-No. | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis |
|---|---|---|---|---|
| Vinyl acetate | 108-05-4 | PC-TWA | 10 mg/m3 | CN OEL |
| | Further information: G2B - Possibly carcinogenic to humans | | | |
| | | PC-STEL | 15 mg/m3 | CN OEL |

| | | | | |
|---|---|---|---|---|
| | Further information: G2B - Possibly carcinogenic to humans | | | |
| | | TWA | 10 ppm | ACGIH |
| | | STEL | 15 ppm | ACGIH |

**Personal protective equipment**

Respiratory protection : No personal respiratory protective equipment normally required.

Eye/face protection : Eye wash bottle with pure water
Tightly fitting safety goggles

Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hand protection
- Material : Nitrile rubber
- Break through time : > 480 min
- Glove thickness : 0.4 mm
- Directive : Protective gloves complying with EN 374.
- Protective index : Class 6

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Hygiene measures : Take off all contaminated clothing immediately.
Wash hands before breaks and at the end of workday.
When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : white

Odour : sweet

pH : 4.0 - 5.0
Method: ISO 976

Melting point/range : ca. 0 °C
(1,013 hPa)

Boiling point/boiling range : ca. 100 °C
(1,013 hPa)

Flash point : boils before flash

| | | |
|---|---|---|
| Flammability (solid, gas) | : | The product is not flammable. |
| Vapour pressure | : | 24 hPa (20 °C) |
| Density | : | 0.95 - 1.1 g/cm³ (25 °C)<br>Method: ISO 2811-3 |
| Solubility(ies)<br>Water solubility | : | miscible |
| Viscosity<br>Viscosity, dynamic | : | 800 - 1,800 mPa.s ( 25 °C)<br>Method: Brookfield Visc. RVT Sp. 2 / 20 r.p.m. |

## 10. STABILITY AND REACTIVITY

| | | |
|---|---|---|
| Reactivity | : | No decomposition if stored and applied as directed. |
| Chemical stability | : | No decomposition if stored and applied as directed. |
| Possibility of hazardous reactions | : | No decomposition if stored and applied as directed. |
| Conditions to avoid | : | Protect from frost.<br>No data available |
| Incompatible materials | : | Water-reactive substances<br>Not applicable |
| Hazardous decomposition products | : | No decomposition if stored and applied as directed. |

## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity**

Harmful if inhaled.

**Product:**

| | | |
|---|---|---|
| Acute inhalation toxicity | : | Acute toxicity estimate: 10.55 mg/l<br>Exposure time: 4 h<br>Test atmosphere: vapour<br>Method: Calculation method |

**Components:**

**Vinyl acetate:**

| | | |
|---|---|---|
| Acute oral toxicity | : | LD50 (Rat): 3,500 mg/kg |
| Acute inhalation toxicity | : | LC50 (Rat): 15.810 mg/m3 |

Exposure time: 4 h
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit, male): 7,440 mg/kg

**mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1):**

Acute inhalation toxicity : LC50 (Rat): > 0.5 - 2 mg/l
Exposure time: 4 h
Test atmosphere: vapour

**Skin corrosion/irritation**

Not classified based on available information.

**Components:**

**Vinyl acetate:**

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation

**Serious eye damage/eye irritation**

Not classified based on available information.

**Components:**

**Vinyl acetate:**

Species : Rabbit
Result : No eye irritation
Method : OECD Test Guideline 405

**Respiratory or skin sensitisation**

**Skin sensitisation**

Not classified based on available information.

**Respiratory sensitisation**

Not classified based on available information.

**Components:**

**Vinyl acetate:**

Species : Mouse
Method : OECD Test Guideline 429
Result : Not a skin sensitizer.

**Germ cell mutagenicity**

Not classified based on available information.

**Components:**

**Vinyl acetate:**

Genotoxicity in vitro : Test Type: Ames test

Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

Test Type: Chromosome aberration test in vitro
Test system: human lymphoblastoid cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: positive

Method: OECD Test Guideline 487
Result: positive

Genotoxicity in vivo : Test Type: Micronucleus test
Species: Mouse
Method: OECD Test Guideline 474
Remarks: ambiguous

Species: Mouse
Result: negative

**Carcinogenicity**

Not classified based on available information.

**Components:**

**Vinyl acetate:**

| | | |
|---|---|---|
| Species | : | Rat |
| Application Route | : | Inhalation |
| Exposure time | : | 104 weeks |
| | : | 0.176 mg/l |
| Result | : | positive |

| | | |
|---|---|---|
| Species | : | Rat |
| Application Route | : | Oral |
| Exposure time | : | 104 weeks |
| | : | 31 mg/kg food |
| Result | : | positive |

**Reproductive toxicity**

Not classified based on available information.

**Components:**

**Vinyl acetate:**

Effects on fertility : Species: Rat
Application Route: Oral
General Toxicity - Parent: NOAEL: 1,000 mg/kg body weight
Method: OECD Test Guideline 416
Result: No toxicity to reproduction

Effects on foetal development : Species: Rat
Application Route: Inhalation and oral drinking water
Developmental Toxicity: 200

Method: OECD Test Guideline 414
Result: no adverse developmental effects

**STOT - single exposure**

Not classified based on available information.

**STOT - repeated exposure**

Not classified based on available information.

**Repeated dose toxicity**

**Components:**

**Vinyl acetate:**

| | | |
|---|---|---|
| Species | : | Rat |
| NOAEL | : | 281 mg/kg |
| Application Route | : | Oral |
| Method | : | OECD Test Guideline 408 |

| | | |
|---|---|---|
| Species | : | Rat |
| NOAEL | : | 0.176 mg/l |
| Application Route | : | Inhalation |
| Method | : | OECD Test Guideline 453 |

**Aspiration toxicity**

Not classified based on available information.

**Further information**

**Product:**

| | | |
|---|---|---|
| Remarks | : | No data available |

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

**Components:**

**Vinyl acetate:**

| | | |
|---|---|---|
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 12.6 mg/l<br>Exposure time: 48 h<br>Method: OECD Test Guideline 202 |
| Toxicity to algae/aquatic plants | : | EC50 (Pseudokirchneriella subcapitata (microalgae)): 12.7 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201 |
| Toxicity to fish (Chronic toxicity) | : | NOEC (Pimephales promelas (fathead minnow)): 0.16 mg/l<br>Exposure time: 34 d<br>Method: OECD Test Guideline 210 |
| Toxicity to microorganisms | : | EC3 (Pseudomonas putida): 6 mg/l<br>Exposure time: 16 h |

**mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1):**

| | | |
|---|---|---|
| Toxicity to fish | : | LC50 (Oncorhynchus mykiss (rainbow trout)): 0.19 mg/l<br>Exposure time: 96 h<br>Method: OECD Test Guideline 203 |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 0.16 mg/l<br>Exposure time: 48 h<br>Method: OECD Test Guideline 202 |
| Toxicity to algae/aquatic plants | : | EC50 (Pseudokirchneriella subcapitata (green algae)): 0.0052 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201<br><br>NOEC (Skeletonema costatum (marine diatom)): 0.00049 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201 |
| M-Factor (Acute aquatic toxicity) | : | 100 |
| M-Factor (Chronic aquatic toxicity) | : | 100 |

**Persistence and degradability**

**Product:**

| | | |
|---|---|---|
| Biodegradability | : | Result: Not readily biodegradable. |
| Chemical Oxygen Demand (COD) | : | ca. 1,000 mg/g |

**Components:**

**Vinyl acetate:**

| | | |
|---|---|---|
| Biodegradability | : | MITI Test<br>Inoculum: activated sludge<br>Result: Readily biodegradable.<br>Method: OECD Test Guideline 301C |

**Bioaccumulative potential**

**Components:**

**Vinyl acetate:**

| | | |
|---|---|---|
| Bioaccumulation | : | Remarks: Does not bioaccumulate. |

**Mobility in soil**

No data available

**Other adverse effects**

**Product:**

Additional ecological information : No data available

**Components:**

**Vinyl acetate:**

Results of PBT and vPvB assessment : The substance does not meet the criteria for PBT / vPvB according to REACH, Annex XIII

## 13. DISPOSAL CONSIDERATIONS

**Disposal methods**

Waste from residues : Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

## 14. TRANSPORT INFORMATION

**International Regulations**

**UNRTDG**
Not regulated as a dangerous good

**IATA-DGR**
Not regulated as a dangerous good

**IMDG-Code**
Not regulated as a dangerous good

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**
Not applicable for product as supplied.

**National Regulations**

**GB 6944/12268**
Not regulated as a dangerous good

**Special precautions for user**
Not applicable

## 15. REGULATORY INFORMATION

**National regulatory information**
**Law on the Prevention and Control of Occupational Diseases**

## 16. OTHER INFORMATION

Date format : yyyy/mm/dd

**Full text of other abbreviations**

| | | |
|---|---|---|
| ACGIH | : | USA. ACGIH Threshold Limit Values (TLV) |
| CN OEL | : | Occupational exposure limits for hazardous agents in the workplace - Chemical hazardous agents. |
| ACGIH / TWA | : | 8-hour, time-weighted average |
| ACGIH / STEL | : | Short-term exposure limit |
| CN OEL / PC-TWA | : | Permissible concentration - time weighted average |
| CN OEL / PC-STEL | : | Permissible concentration - short term exposure limit |

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the

specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

CN / EN