

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



Vinamul 3231

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	2020/06/02	000000034018	Date of first issue: 2020/06/02

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Vinamul 3231

Product code : 000000000020007259

Chemical nature : Water-borne polymer emulsion.

Manufacturer or supplier's details

Company : Celanese (Shanghai) International Trading Co., Ltd
赛拉尼斯(上海)国际贸易有限公司

Address : 4560 Jinke Road, Zhangjiang, Pudong
Shanghai, China 020 201210

Telephone : 86-21-38619288

Emergency telephone number : CHEMTREC International phone number: +1-703-527 3887,
+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

Not a hazardous substance or mixture.

GHS Classification

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Physical and chemical hazards

Not classified based on available information.

Health hazards

Not classified based on available information.

Environmental hazards

Not classified based on available information.

Other hazards which do not result in classification

No information available.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Vinyl acetate	108-05-4	$\geq 0.1 - < 1$

4. FIRST AID MEASURES

- | | |
|---|--|
| General advice | : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended. |
| If inhaled | : If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician. |
| 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 | : None known. |

5. FIREFIGHTING MEASURES

- | | |
|---|---|
| Unsuitable extinguishing media | : High volume water jet |
| Specific extinguishing methods | : Standard procedure for chemical fires.
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 | : Use personal protective equipment. |
|---|--------------------------------------|

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Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
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).
Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Handling

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Advice on safe handling : 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.
Dispose of rinse water in accordance with local and national regulations.

Avoidance of contact : Water-reactive substances

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.
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.

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	GBZ 2.1-2007
Further information: G2B - Possibly carcinogenic to humans				
		PC-STEL	15 mg/m3	GBZ 2.1-

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				2007
	Further information: G2B - Possibly carcinogenic to humans			
		TWA	10 ppm	ACGIH
		STEL	15 ppm	ACGIH

Personal protective equipment

- Respiratory protection : In the case of vapour formation use a respirator with an approved filter.
- 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
Manufacturer : Class 6
- Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Hygiene measures : 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 : 4.5 - 6.0
Method: ISO 976
- Melting point/range : 0 °C
(1,013 hPa)
- Boiling point/boiling range : ca. 100 °C
- 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)
Method: ISO 2811-3
- Solubility(ies)

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Water solubility	:	miscible
Viscosity	:	
Viscosity, dynamic	:	50 - 400 mPa.s (25 °C)
	:	Method: Brookfield Visc. RVT Sp. 3 / 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	:	No data available
Incompatible materials	:	Water-reactive substances
Hazardous decomposition products	:	No decomposition if stored and applied as directed.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Components:

Vinyl acetate:

Acute oral toxicity	:	LD50 (Rat): 3,500 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): 15.81 mg/l
	:	Exposure time: 4 h
	:	Method: Regulation (EC) No. 440/2008, Annex, B.2
Acute dermal toxicity	:	LD50 (Rabbit, male): 7,440 mg/kg

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.

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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: Does not cause skin sensitisation.

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 Species: 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.

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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

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Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks: No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Vinyl acetate:

Toxicity to fish	:	19 mg/l
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 12.6 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae	:	EC50 (Pseudokirchneriella subcapitata (microalgae)): 12.7 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to fish (Chronic toxicity)	:	NOEC (Pimephales promelas (fathead minnow)): 0.16 mg/l Exposure time: 34 d Method: OECD Test Guideline 210
Toxicity to microorganisms	:	EC3 (Pseudomonas putida): 6 mg/l Exposure time: 16 h

Persistence and degradability

Product:

Biodegradability : Result: Not readily biodegradable.

Components:

Vinyl acetate:

Biodegradability : Inoculum: activated sludge
Result: Readily biodegradable.
Biodegradation: 51 - 62 %
Method: OECD Test Guideline 301C

Bioaccumulative potential

Components:

Vinyl acetate:

Bioaccumulation : Remarks: Does not bioaccumulate.

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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

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15. REGULATORY INFORMATION

National regulatory information

Law on the Prevention and Control of Occupational Diseases

16. OTHER INFORMATION

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; 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; CPR - Controlled Products Regulations; 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

Date format : yyyy/mm/dd

Disclaimer

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