

Product name Vinamul 31172
MSDS number 85486
Revision Number 0

Revision Date
Issuing date

EMNA/EN
May.28.2015
Sep.02.2015

1. Product and company identification

Trade Name

Vinamul 31172

Celanese Ltd.

222 W. Las Colinas Blvd., Suite 900N
Irving, TX 75039
United States
Phone: 972 443 4000
Internet: www.celanese.com

Transportation emergency phone numbers:

For Chemical Emergency: Spill Leak Fire Exposure or Accident
Call CHEMTREC Day or Night
DOMESTIC NORTH AMERICA: 800-424-9300
INTERNATIONAL, CALL +1 703-527-3887 (collect calls accepted)

2. Hazard Identification

GHS Classification

Hazards

Carcinogenicity

Category

Category 2

Label elements



Signal Word

Warning

Hazard Statements

Suspected of causing cancer

Precautionary statements

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wear protective gloves/ protective clothing/ eye protection/ face protection.
IF exposed or concerned: Get medical advice/attention.
Store locked up.
Dispose of contents/ container to an approved waste disposal plant.

3. Composition/information on ingredients

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3. Composition/information on ingredients

Components	CAS-No	Percent %
Vinyl acetate copolymer		54 - 56
Water	7732-18-5	44 - 46
Vinyl acetate	108-05-4	0.3

4. First aid measures

General Information

Remove contaminated, soaked clothing immediately and dispose of safely.

Skin

Wash off with soap and water. If symptoms persist, call a physician.

Eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately.

Ingestion

If swallowed, seek medical advice immediately and show this container or label. If conscious, drink plenty of water. Do not induce vomiting without medical advice.

5. Fire-fighting measures

Suitable extinguishing media

Foam, Dry powder, Carbon dioxide (CO₂), Water spray

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

Other Information

This is a water-based product and presents no particular fire or explosion hazard

6. Accidental release measures

Personal precautions

Contaminated surfaces will be extremely slippery. Avoid contact with the skin and the eyes.

Environmental precautions

Do not allow material to contaminate ground water system. Do not flush into surface water or sanitary sewer system.

Methods for 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. Contaminated equipment (brushes, rags) must be cleaned immediately with water. Dispose of in accordance with local regulations.

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7. Handling and storage

Advice on safe handling

Product may contain hazardous volatile ingredients which could accumulate in the unvented headspace of drums or containers. Open containers in ventilated area. Do not breathe vapor.

Protection - fire and explosion:

No special protective measures against fire required.

Technical measures/Storage conditions

Keep tightly closed in a dry and cool place. No special technical protective measures required.

Material storage

Store locked up. 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 at temperatures between 5°C and 35°C (40°F and 95°F). Agitate before use.

Incompatible products

No special restrictions on storage with other products

8. Exposure controls / personal protection

OSHA Exposure Limits

Components	STEL
Vinyl acetate	20 PPM

ACGIH Exposure Limits

ACGIH Exposure Limits

Components	TWA
Vinyl acetate	10 PPM

Components	STEL
Vinyl acetate	15 PPM

Mexico National Exposure Limits

Components	LMPE - PPT	
Vinyl acetate	30 mg/m ³	10 PPM

Components	STEL	
Vinyl acetate	60 mg/m ³	20 PPM

Components	Mexican Carcinogen Category
Vinyl acetate	A3

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Exposure controls

Engineering measures

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

Protective equipment

A safety shower and eyebath should be readily available.

General advice

Avoid contact with skin and eyes.

Respiratory protection

Based on workplace contaminant level and working limits of the respirator, use a respirator approved by NIOSH. The following is the minimum recommended equipment for an occupational exposure level. To estimate an occupational exposure level see Section 8 and Section 11.

For concentrations > 1 and < 10 times the occupational exposure level: Use air-purifying respirator with full facepiece and organic vapor cartridge(s) or air-purifying full facepiece respirator with an organic vapor canister or a full facepiece powered air-purifying respirator fitted with organic vapor cartridge(s). The air purifying element must have an end of service life indicator, or a documented change out schedule must be established. Otherwise, use supplied air.

Skin protection:

Wear impervious clothing and gloves when there is a reasonable chance for skin contact..

Eye/face protection:

safety glasses with side-shields.

9. Physical and chemical properties

Appearance

Form	liquid
Color	white
Odor	sweet (212°F)
pH	4.2 - 4.6
Method	ISO 976
Viscosity	3000 - 4000 mPa*s @ 25°C
Method	Brookfield Visc. RVT Sp. 4 / 20 r.p.m.
Vapor pressure	24 hPa @ 20°C
Specific Gravity	1.0804
Water solubility	miscible

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10. Stability and reactivity

Chemical stability

Stable under recommended storage conditions

Conditions to avoid

Do not freeze

Incompatible Materials

Materials that react with water

Possibility of hazardous reactions

No hazards to be especially mentioned.

11. Toxicological information

Potential health effects

Routes of exposure Skin, Eyes

Immediate effects

Skin	Prolonged or repeated exposure may cause: skin irritation
Eyes	May cause eye irritation.
Ingestion	May cause gastrointestinal irritation.
Other:	Vinyl Acetate is listed as an IARC 2B, possible human carcinogen based on animal data.

Vinyl acetate

Acute oral toxicity	LD50: 3500 mg/kg
Acute dermal toxicity	LD50: 7440 mg/kg
Acute inhalation toxicity	LC50 (4h): 15810 mg/m ³
Method	Standard Acute Method
Skin corrosion/irritation	Not irritating
Species	rabbit
Method	OECD 404
Skin Sensitization	nonsensitizer
Species	mouse female
Method	OECD 429
Serious eye damage/eye irritation	Not irritating
Species	rabbit eye
Method	OECD 405

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Vinyl acetate

Carcinogenic effects

Species
Study

Has been shown to cause cancer in lifetime rat and mouse inhalation studies at the site of contact at non-physiologically relevant doses
rats and mice
104-week inhalation study
NOAEC: 176 mg/m³

Carcinogenic Effects

Species
Study

Has been shown to cause cancer in lifetime rat and mouse drinking water studies at the site of contact at non-physiologically relevant doses
rats and mice
104-week oral gavage study
LOAEL: 31 mg/kg bw/day

in vitro Mutagenicity

Ames Test: negative - with and without metabolic activation - Method: OECD 471 Chromosome aberrations in cultured human lymphocytes: positive - with and without metabolic activation - Method: OECD 473 Cytotoxicity and micronucleos assay in human lymphoblastoid cells (TK6): positive - Method: OECD 487

in vivo Mutagenicity

Mammalian Erythrocyte Micronucleus Test in mice: ambiguous - Method: OECD 474 Effects on sperm morphology and meiotic micronuclei in mice: negative

Reproductive toxicity

Routes of exposure
Species

No toxicity to reproduction
oral drinking water
rat
NOAEL= 1000 ppm

Developmental effects

Routes of exposure
Species

no adverse developmental effects
oral drinking water and Inhalation
rat

Repeated exposure

Routes of exposure
Species
Method

No adverse effects
oral gavage
rats and mice
OECD 408
NOAEL: 281 mg/kg bw/day

Repeated Exposure

Routes of exposure
Species
Method

No adverse effects
Inhalation
rats and mice
OECD 453
NOAEC: 176 mg/m³

12. Ecological Information

Ecotoxicological data are not available. According to experience, the material has no harmful effect on the environment.

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13. Disposal considerations

Disposal considerations

Dispose of spilled material in accordance with state and local regulations for waste that is non-hazardous by Federal definition. Note that this information applies to the material as manufactured; processing, use, or contamination may make this information inappropriate, inaccurate, or incomplete.

Note that this handling and disposal information may also apply to empty containers, liners and rinsate. State or local regulations or restrictions are complex and may differ from federal regulations. This information is intended as an aid to proper handling and disposal; the final responsibility for handling and disposal is with the owner of the waste.

14. Transport information

US Department of Transportation Not regulated

ICAO/IATA Not restricted

IMDG Not regulated

15. Regulatory Information

US State Regulations

Chemicals associated with the product which are subject to the state right-to-know regulations are listed along with the applicable state(s):

Vinyl acetate 108-05-4

Pennsylvania	Listed
New York	Listed
New Jersey	Listed
Illinois	Listed
Louisiana	Listed
Massachusetts	Listed
Rhode Island	Listed

U.S. FEDERAL REGULATIONS

TSCA Inventory:

This product complies with the U.S. Toxic Substances Control Act (TSCA).

Environmental Regulations:

SARA 313 Chemicals

Vinyl acetate (108-05-4) 0.3 %

