

Product name Vinamul 31172
MSDS number 85486
Revision Number 5***

AGHS/EN

Revision Date Jun.02.2016***
Issuing date Jun.02.2016***

1. Identification of the substance/preparation and the company/undertaking

Product name
Vinamul 31172

Manufacturer or supplier's details

Celanese (Shanghai) International Trading Co., Ltd.

Room 239, Xinmao Building
South Taizhong Road
Waigaoqiao Free Trade Zone
Shanghai, China

Celanese Pte Ltd

138 Robinson Road
#17-00
Singapore (068906)

Product Information

HazCom@celanese.com***

Emergency telephone number

+(65) 62656917 (Operations Room direct dial)
or fax request to +(65) 62664696 (Facsimile to Operations Room)
or email to posh.er@pacoffshore.com.sg

In China Emergency Number: 86-532-83889090 (NRCC)

2. Hazards identification

Statements of Hazard

Not a dangerous product according to GHS***

3. Composition/Information on ingredients

Chemical characterization

Water-borne polymer emulsion. Basis: Ethylene Vinyl acetate

4. First aid measures

General Information

Remove contaminated, soaked clothing immediately and dispose of safely.

Product name	Vinamul 31172		AGHS/EN
MSDS number	85486	Revision Date	Jun.02.2016***
Revision Number	5***	Issuing date	Jun.02.2016***

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.

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. During longer storage small amounts of carbon monoxide may form. To the best of our knowledge, no OEL (occupational exposure limit) is exceeded during the intended use. Containers/tanks may only be entered after thoroughly executed ventilation while considering national regulations and international standards for inspection of containers/tanks. In any case of doubt a measurement of the CO concentration is necessary***

Incompatible products

No special restrictions on storage with other products

Protection - fire and explosion:

No special protective measures against fire required.

Product name Vinamul 31172
MSDS number 85486
Revision Number 5***

AGHS/EN

Revision Date Jun.02.2016***
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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

Technical measures/Storage conditions

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

8. Exposure controls / personal protection

ACGIH Exposure Limits

ACGIH Exposure Limits

Components	TWA
Vinyl acetate	10 PPM

Components	STEL
Vinyl acetate	15 PPM

OSHA Exposure Limits

Components	STEL
Vinyl acetate	20 PPM

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.

Personal protective equipment

General advice

Avoid contact with skin and eyes.

Hygiene measures

Wash hands before breaks and at the end of workday.. When using, do not eat, drink or smoke. Take off all contaminated clothing immediately. Wash contaminated clothing before re-use.

Eye protection

safety glasses.

Hand protection

Suitable material
Type

Chemicals resistant gloves
 rubber gloves
 Nitril*** (Company KCL) or comparable article;
 or refer to glove manufacturer's recommendation***

Evaluation

Material thickness
Break through time

according to EN 374: level 6*****
 approx. 0.1 / 0.4*** mm***
 > 480 min***

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MSDS number 85486
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9. Physical and chemical properties

Appearance

Form liquid
Color white
Odor sweet

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
Water solubility miscible

10. Stability and reactivity

Chemical stability

Stable under recommended storage conditions

Conditions to avoid

Do not freeze.

Incompatible Materials

Materials that react with water

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/m³

SAFETY DATA SHEET



Product name Vinamul 31172
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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
Carcinogenic effects	Has been shown to cause cancer in lifetime rat and mouse inhalation studies at the site of contact at non-physiologically relevant doses
Species	rats and mice
Study	104-week inhalation study NOAEC: 176 mg/m ³
Carcinogenic Effects	Has been shown to cause cancer in lifetime rat and mouse drinking water studies at the site of contact at non-physiologically relevant doses
Species	rats and mice
Study	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 micronucleus 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	No toxicity to reproduction
Routes of exposure	oral drinking water
Species	rat
	NOAEL= 1000 ppm
Developmental effects	no adverse developmental effects
Routes of exposure	oral drinking water and Inhalation
Species	rat
Repeated exposure	No adverse effects
Routes of exposure	oral gavage
Species	rats and mice
Method	OECD 408
	NOAEL: 281 mg/kg bw/day
Repeated Exposure	No adverse effects
Routes of exposure	Inhalation
Species	rats and mice
Method	OECD 453
	NOAEC: 176 mg/m ³

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12. Ecological Information

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

13. Disposal considerations

Product information

Disposal required in compliance with all waste management related state and local regulations. The choice of the appropriate method of disposal depends on the product composition by the time of disposal as well as the local statutes and possibilities for disposal Diluted solution may be introduced into a biological purification plant, with permission of the responsible authorities

Uncleaned empty packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse Regulations concerning reuse or disposal of used packaging materials must be observed.

14. Transport information

US Department of Transportation Not regulated

ADR/RID Not regulated

ADN Not regulated

ICAO/IATA Not restricted

IMDG Not regulated

15. Regulatory information

16. Other information

HMIS: Health: 1

Flammability: 0

Physical Hazard: 0

Prepared By

Product Stewardship Department
Celanese

For further information, see:

For more information, consult the Technical Data Sheet (www.celanese-emulsions.com).

Other Information:

Traces of residual monomers can be found in the product.: Vinyl acetate***

Changes against the previous version are marked by ***

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Sources of key data used to compile the datasheet

Information contained in this safety data sheet is based on Celanese owned data and public sources deemed valid or acceptable. The absence of data elements required by ANSI or 1907/2006/EC indicates that no data meeting these requirements is available.

Further information

This information is based on our present state of knowledge. It shall describe our products regarding safety requirements and shall not be construed as a guarantee or statement of condition and/or quality