

SAFETY DATA SHEET



VAMAC® ULTRA EV ethylene acrylic elastomer

Version 2.0

Document no. 130000157728

Revision Date 2023/02/09

Issue Date 2023/07/12

This SDS adheres to the standards and regulatory requirements of China and may not meet the regulatory requirements in other countries.

Section 1 - Chemical and Enterprise Identification

Product name : VAMAC® ULTRA EV ethylene acrylic elastomer

Product name in English : VAMAC® ULTRA EV ethylene acrylic elastomer

Recommended use of the chemical and restriction on use

Recommended use : Polymer

Restrictions on use : For manufacturing and research use only

Manufacturer, importer, supplier

Company : Celanese (Shanghai) International Trading Co., Ltd

Street address : 4560 Jinke Road, Zhangjiang, Pudong Shanghai, China 201210

E-mail address : HazCom@celanese.com

Emergency telephone number : CHEMTREC International: +1-703-527 3887, +86 532 8388-9090 (China, 24h)

Date of first preparation : 2023/02/09

Section 2 - Hazard Identification

GHS Hazard Category

Not a hazardous substance or mixture according to the Globally Harmonised System (GHS).

Endpoints which are not classified, cannot be classified or are not applicable are not shown.

Main Symptom After Contact

Refer to section 4 of this SDS for information on symptoms, hazards and treatment after contact.

Section 3 - Ingredients/Composition Information

Chemical nature : Mixture

Components

This product does not contain any components that require disclosure according to country regulations.

Section 4 - First-aid Measures

Inhalation : Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. Get medical attention. Call a physician. If not breathing, give artificial respiration.

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Skin contact	: In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before reuse. Cool skin rapidly with cold water after contact with molten material. Do not attempt to remove material from the skin. Obtain medical treatment for thermal burn.
Eye contact	: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.
Ingestion	: Not a probable route of exposure. However, in case of accidental ingestion, call a physician.
Most important symptoms/effects, acute and delayed	: During processing, fumes may evolve irritating the eyes, nose and throat., Exposure may result in reddening, tears and itching of the eyes and soreness in the nose and throat, together with coughing., Exposure to off gases may cause dermatitis (reddening of the skin)., Irritation
Protection of first-aiders	: No information available.
Notes to physician	: No information available.

Section 5 - Fire-fighting Measures

Suitable extinguishing media	: Water, Foam, Dry chemical, Carbon dioxide (CO2)
Unsuitable extinguishing media	: No information available.
Specific hazards	: Combustible . Large molten masses may ignite spontaneously in air. Water quenching is good practice. Hazardous combustion products may include: (see also section 10) Carbon monoxide, Carbon dioxide
Special protective equipment for firefighters	: Wear self-contained breathing apparatus and protective suit.
Specific extinguishing methods	: No information available.
Further information	: Evacuate personnel and keep upwind of fire. The solid polymer can only be burned with difficulty.

Section 6 - Leak Emergency Treatment

Protective measures, devices and emergency treatment procedure for workers	: No information available.
Environmental precautions	: Do not discharge to streams, ponds, lakes or sewers.

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Methods and materials for containment and cleaning up : Shovel or sweep up.

Prevention of secondary hazards : No information available.

Section 7 - Operation Handling and Storage**Operation Handling**

Technical measures/Precautions : When opening containers, avoid breathing vapours that may be emanating. Open container only in well-ventilated area. Do not breathe vapours or fumes that may be evolved during processing. Before using, read the product bulletin.

Precautions for safe handling : No information available.

Storage

Suitable storage conditions : Keep containers tightly closed in a cool, well-ventilated place. Keep container closed to prevent contamination.

Section 8 - Exposure Control and Personal Protection**Control parameters**

No occupational exposure limit values are applicable.

Biological occupational exposure limits

No biological exposure limit values are applicable.

Engineering controls : When hot processing this material, use local and/or general exhaust ventilation to maintain the concentration of vapors and fumes below exposure limits. Local exhaust ventilation is preferred. See Bulletin "Proper Use of Local Exhaust Ventilation During Processing of Plastics". Use sufficient ventilation to keep employee exposure below recommended limits.

Personal protective equipment

Respiratory protection : A respiratory protection program that meets country requirements must be followed whenever workplace conditions warrant respirator use. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer.

Hand protection : Material: Protective gloves

Eye protection : Wear safety glasses with side shields.
Wear tightly fitting chemical splash goggles and face shield when possibility exists for eye and face contact due to spattering or splashing of molten material.

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Skin protection : Where there is potential for skin contact, have available and wear as appropriate, impervious gloves, apron, pants, jacket, hood and boots.
If there is a potential for contact with hot/molten material wear heat resistant clothing and footwear.

Hygiene measures : No information available.

Section 9 - Physical and Chemical Properties**Appearance (Physical state, form, colour, etc.)**

Physical state : solid
Form : bales
Colour : clear, to, light yellow, translucent

Odour : acrylic-like

Odour Threshold : 0.0048 - 20 ppm
Methyl acrylate

pH : No information available.

Melting point/freezing point

No information available.

Boiling point, initial boiling point and boiling range

No information available.

Flash point : ca.212.5 °C (1,016 hPa)
closed cup
Method: Setaflash closed cup - SCC

Evaporation rate : No information available.

Flammability : No information available.

Upper/lower flammability or explosive limits

Upper explosion limit : No information available.
Lower explosion limit : No information available.

Vapour pressure : No information available.

Vapour density : No information available.

Density

Density : > 1 g/cm³
Specific gravity : > 1
(Relative density)

Solubility(ies)

Water solubility : insoluble

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Particle characteristics

Assessment : No information available.

Partition coefficient: n-octanol/water

: No information available.

Auto-ignition temperature

No information available.

Decomposition temperature: >282 °C
Thermal decomposition of the resin accelerates above temperature listed. Decomposition can occur below the recommended processing temperature limit. Decomposition is a function of both processing temperature and time at that temperature.**Viscosity**

Viscosity, kinematic : No information available.

Molecular weight

: No information available.

Oxidizing properties

: No information available.

Section 10 - Stability and Reactivity**Reactivity** : Stable at normal ambient temperature and pressure.**Chemical stability** : Stable at normal ambient temperature and pressure.**Possibility of hazardous reactions** : Polymerization will not occur.

Large molten masses may give off hazardous gases. Water quenching is good practice.

Conditions to avoid : Temperature: > 282°C
Decomposes on heating.
At temperatures above the "conditions to avoid" temperature, thermal decomposition of the resin accelerates. Decomposition can occur below the recommended processing temperature limit. Decomposition is a function of both processing temperature and time at that temperature.**Materials to avoid** : Strong acids, and, Oxidizing agents**Hazardous decomposition products** : Hazardous thermal decomposition products may include:

Alcohols, Aldehydes, acetaldehydes, Acrolein, Acrylic acid, Carboxylic acid, Esters, Formaldehyde, Ketones, Organic acids, Maleic anhydride, Oxides of phosphorus Carbon monoxide, Carbon dioxide, Phosphonic acid

Section 11 - Toxicological Information**Acute toxicity**

No information available.

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Skin corrosion/irritation

No information available.

Serious eye damage/eye irritation

No information available.

Respiratory or skin sensitisation

No information available.

Germ cell mutagenicity

No information available.

Carcinogenicity

No information available.

Reproductive toxicity

No information available.

Specific Target Organ Toxicity

No information available.

Aspiration hazard

No information available.

Other

VAMAC® ULTRA EV ethylene acrylic elastomer : No data is available on the product itself.

Section 12 - Ecological Information**Ecotoxicity effects**

No information available.

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Mobility in soil

No information available.

Other adverse effects

VAMAC® ULTRA EV ethylene acrylic elastomer : There is no data available for this product. Toxicity is expected to be low based on insolubility in water.

Section 13 - Waste Disposal

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Waste disposal methods : Preferred options for disposal are recycling, incineration with energy recovery, and landfill. The high fuel value of this product makes incineration very desirable for material that cannot be recycled. Treatment, storage, transportation, and disposal must be in accordance with applicable federal, state/provincial, and local regulations.

Contaminated packaging : Dispose of in accordance with local regulations.

Section 14 - Transport Information

Not classified as dangerous in the meaning of transport regulations.

China Dangerous Goods Regulation

UN number : Not applicable
Proper shipping name : Not applicable
Class : Not applicable
Packing group : Not applicable

IMDG

UN number : Not applicable
UN proper shipping name : Not applicable
Transport hazard class : Not applicable
Packing group : Not applicable
Marine pollutant : Not applicable

IATA

UN number : Not applicable
UN proper shipping name : Not applicable
Transport hazard class : Not applicable
Packing group : Not applicable

Matters needing attention for transportation : Not applicable

Section 15 - Regulatory Information

not regulated

Section 16 - Other Information

References

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Significant change from previous version is denoted with a double bar.

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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.