SAFETY DATA SHEET

VAMAC® ULTRA IP ETHYLENE ACRYLIC ELASTOMER

Version 3.1 Revision Date 2020/11/26
Document no. 130000139104 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 IP ETHYLENE ACRYLIC ELASTOMER

Product name in English : VAMAC® ULTRA IP 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 : 2015/11/18

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

No information available.

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.

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	:	No information available.
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)
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.
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.

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 (solid, gas)	:	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 (Relative density)	:	> 1

Solubility(ies)

Water solubility	:	insoluble
Partition coefficient: n-	:	No information available.

octanol/water

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 decomposition products may include:, Aldehydes, Ketones, Esters, Alcohols, Acrolein, Oxides of phosphorus, Carbon monoxide, Organic acids, Acrylic acid, Maleic anhydride, Formaldehyde, acetaldehydes, Carbon dioxide (CO2), Carboxylic acid Phosphonic acid

Section 11 - Toxicological Information

Acute toxicity
No information available.

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 IP 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 IP 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

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

SDS Number: 130000139104

Revision Date/Version

Date of first preparation	:	2015/11/18
Revision Date	:	2020/11/26
Version	:	3.1

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

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