

ATEVA® Z4003ACX

Version	Revision Date:	SDS Number:	Date of last issue: 2021/12/08
1.1	2025/05/09	0000000051038	Date of first issue: 2021/12/08

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : ATEVA® Z4003ACX
Product code : 000000000021051799

Manufacturer or supplier's details

Company : Celanese (Shanghai) International Trading Co., Ltd
Address : 4560 Jinke Road, Zhangjiang, Pudong
Shanghai, China 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 : Plastic processing industry

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance	: solid
Colour	: transparent
Odour	: mild, vinegar-like

Suspected of causing cancer.

GHS Classification

Carcinogenicity : Category 2

GHS label elements

Hazard pictograms :



Signal word : Warning

Hazard statements : H351 Suspected of causing cancer.

Precautionary statements :

Prevention:

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



ATEVA® Z4003ACX

Version	Revision Date:	SDS Number:	Date of last issue: 2021/12/08
1.1	2025/05/09	000000051038	Date of first issue: 2021/12/08

Response:

P308 + P313 IF exposed or concerned: Get medical advice/attention.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Physical and chemical hazards

Not classified based on available information.

Health hazards

Suspected of causing cancer.

Environmental hazards

Not classified based on available information.

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Acetic acid ethenyl ester polymer with ethane	24937-78-8	> 98
vinyl acetate	108-05-4	>= 0.1 -< 1

4. FIRST AID MEASURES

General advice	: 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 skin contact	: Cool skin rapidly with cold water after contact with molten material. Do not peel solidified product off the skin. Burns must be treated by a physician.
In case of eye contact	: Remove contact lenses. Protect unharmed eye. If eye irritation persists, consult a specialist.
If swallowed	: 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.
Most important symptoms and effects, both acute and delayed	: Suspected of causing cancer.
Notes to physician	: Treat symptomatically.

SAFETY DATA SHEET

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ATEVA® Z4003ACX

Version	Revision Date:	SDS Number:	Date of last issue: 2021/12/08
1.1	2025/05/09	000000051038	Date of first issue: 2021/12/08

5. FIREFIGHTING MEASURES

- | | |
|---|--|
| Suitable extinguishing media | : Water
Foam
Dry chemical
Carbon dioxide (CO ₂) |
| Specific hazards during fire-fighting | : Do not use a solid water stream as it may scatter and spread fire. |
| Hazardous combustion products | : Carbon oxides |
| Specific extinguishing methods | : Do not allow run-off from fire fighting to enter drains or water courses.
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 | : Ensure adequate ventilation.
Avoid contact with the skin and the eyes.
Avoid dust formation.
Avoid breathing dust. |
| Environmental precautions | : Do not allow material to contaminate ground water system.
Do not flush into surface water or sanitary sewer system. |
| Methods and materials for containment and cleaning up | : Pick up and arrange disposal without creating dust.
Sweep up and shovel.
Use mechanical handling equipment.
Keep in suitable, closed containers for disposal. |

7. HANDLING AND STORAGE

Handling

- | | |
|---|---|
| Advice on protection against fire and explosion | : Provide appropriate exhaust ventilation at places where dust is formed.
During processing, dust may form explosive mixture in air. |
| Advice on safe handling | : For personal protection see section 8.
Use only with adequate ventilation.
Smoking, eating and drinking should be prohibited in the application area.
Minimize dust generation and accumulation.
Do not breathe vapours/dust. |

SAFETY DATA SHEET

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ATEVA® Z4003ACX

Version 1.1 Revision Date: 2025/05/09 SDS Number: 000000051038 Date of last issue: 2021/12/08
Date of first issue: 2021/12/08

Avoidance of contact : Avoid inhalation, ingestion and contact with skin and eyes.
Handle in accordance with good industrial hygiene and safety practice.
Strong oxidizing agents

Storage

Conditions for safe storage : Store locked up.
Keep container tightly closed in a dry and well-ventilated place.
Maintain dryness of resin
To maintain product quality, do not store in heat or direct sunlight.
Electrical installations / working materials must comply with the technological safety standards.
Observe label precautions.

Materials to avoid : No materials to be especially mentioned.

Further information on storage stability : No decomposition if stored and applied as directed.

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/m ³	CN OEL
Further information: G2B - Possibly carcinogenic to humans				
		PC-STEL	15 mg/m ³	CN OEL
Further information: G2B - Possibly carcinogenic to humans				
		TWA	10 ppm	ACGIH
		STEL	15 ppm	ACGIH

Engineering measures : Local exhaust

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.
In the case of respirable dust and/or fumes, use self-contained breathing apparatus.

Eye/face protection : Safety glasses with side-shields

Skin and body protection : Protective suit

Hand protection

Remarks : Impervious gloves The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Hygiene measures : General industrial hygiene practice.
Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : solid

SAFETY DATA SHEET

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ATEVA® Z4003ACX

Version 1.1	Revision Date: 2025/05/09	SDS Number: 000000051038	Date of last issue: 2021/12/08 Date of first issue: 2021/12/08
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Colour	:	transparent
Odour	:	mild, vinegar-like
pH	:	Not applicable
Melting point/ range	:	For further information, refer to the product technical data sheet.
Boiling point/boiling range	:	Not applicable
Flash point	:	Not applicable
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Density	:	ca. 0.9 g/cm ³
Solubility(ies) Water solubility	:	insoluble
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	> 330 °C
Decomposition temperature	:	> 300 °C
Viscosity Viscosity, kinematic	:	Not applicable
Particle characteristics Particle size	:	No data available

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	:	Stable under recommended storage conditions. No hazards to be specially mentioned. Dust may form explosive mixture in air.
Conditions to avoid	:	No data available
Incompatible materials	:	Strong oxidizing agents
Hazardous decomposition products	:	acetic acid

SAFETY DATA SHEET

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ATEVA® Z4003ACX

Version	Revision Date:	SDS Number:	Date of last issue: 2021/12/08
1.1	2025/05/09	000000051038	Date of first issue: 2021/12/08

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Components:

Acetic acid ethenyl ester polymer with ethane:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

vinyl acetate:

Acute oral toxicity : LD50 (Rat): 3,500 mg/kg

Acute inhalation toxicity : LC50 (Rat): 15.810 mg/l
Exposure time: 4 h
Test atmosphere: vapour

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.

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

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



ATEVA® Z4003ACX

Version	Revision Date:	SDS Number:	Date of last issue: 2021/12/08
1.1	2025/05/09	000000051038	Date of first issue: 2021/12/08

Result : Not a skin sensitizer.

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
Test system: 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
Result: ambiguous

Species: Mouse
Remarks: negative

Carcinogenicity

Suspected of causing cancer.

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.

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



ATEVA® Z4003ACX

Version	Revision Date:	SDS Number:	Date of last issue: 2021/12/08
1.1	2025/05/09	000000051038	Date of first issue: 2021/12/08

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
Application Route : Inhalation
Method : OECD Test Guideline 453

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks : No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Acetic acid ethenyl ester polymer with ethane:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 500 mg/l
Exposure time: 96 h

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



ATEVA® Z4003ACX

Version	Revision Date:	SDS Number:	Date of last issue: 2021/12/08
1.1	2025/05/09	000000051038	Date of first issue: 2021/12/08

vinyl acetate:

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/aquatic plants	:	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

Components:

vinyl acetate:

Biodegradability	:	MITI Test Inoculum: activated sludge Result: Readily biodegradable. Method: OECD Test Guideline 301C
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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
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Components:

vinyl acetate:

Results of PBT and vPvB assessment	:	The substance does not meet the criteria for PBT / vPvB according to REACH, Annex XIII
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ATEVA® Z4003ACX

Version	Revision Date:	SDS Number:	Date of last issue: 2021/12/08
1.1	2025/05/09	000000051038	Date of first issue: 2021/12/08

13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues	:	Dispose of in accordance with local regulations.
Contaminated packaging	:	Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Environmentally hazardous	:	no

IATA-DGR

UN/ID No.	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Packing instruction (cargo aircraft)	:	Not applicable
Packing instruction (passenger aircraft)	:	Not applicable

IMDG-Code

UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
EmS Code	:	Not applicable
Marine pollutant	:	no

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

UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



ATEVA® Z4003ACX

Version	Revision Date:	SDS Number:	Date of last issue: 2021/12/08
1.1	2025/05/09	000000051038	Date of first issue: 2021/12/08

Marine pollutant : no

JT/T 617

UN number	: Not applicable
Proper shipping name	: Not applicable
Class	: Not applicable
Subsidiary risk	: Not applicable
Packing group	: Not applicable
Labels	: Not applicable
Environmentally hazardous	no

Special precautions for user

Not applicable

15. REGULATORY INFORMATION

National regulatory information

Law on the Prevention and Control of Occupational Diseases

Regulations on Safety Management of Hazardous Chemicals

16. OTHER INFORMATION

Revision Date	: 2025/05/09
Date format	: yyyy/mm/dd

Full text of other abbreviations

ACGIH	: USA. ACGIH Threshold Limit Values (TLV)
CN OEL	: Occupational exposure limits for hazardous agents in the workplace - Chemical hazardous agents.

ACGIH / TWA	: 8-hour, time-weighted average
ACGIH / STEL	: Short-term exposure limit
CN OEL / PC-TWA	: Permissible concentration - time weighted average
CN OEL / PC-STEEL	: Permissible concentration - short term exposure limit

AIIC - Australian Inventory of Industrial Chemicals; 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; 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;

SAFETY DATA SHEET

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ATEVA® Z4003ACX

Version	Revision Date:	SDS Number:	Date of last issue: 2021/12/08
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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; TECI - Thailand Existing Chemicals Inventory; 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

Disclaimer

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CN / EN