Product Name	Ateva®		NAGH/EN
MSDS number	84007	**Revision Date**	Jun.21.2016
Revision Number	1.01	**Issuing date**	Nov.09.2018***

1. Product and company identification

Trade Name

Ateva®

The following grades will be covered by this SDS:

Product Grade(s):
2604A, 2604AX, 2803A, 2810A, 2820A, 2821A, 2825A, 2825AC, 2830A, 2830AC, 2842A, 2842AC, 2850A, 2861A, 2862A, 9020, 9021A***

Manufacturer, importer, supplier
Celanese EVA Polymers
4405-101 Ave
P.O. Box 428
Edmonton, Alberta, Canada
T5J 2K1
Phone: 780 568-0800
Internet: www.Celanese.com

Transportation emergency phone numbers:
In USA, call 800 424 9300
Outside USA, call +001 703 527 3887, collect calls accepted.

Identified uses
Plastic processing industry.

2. Hazard Identification

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200:

GHS Classification

Hazards	**Category**
Carcinogenicity	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

Components	CAS-No	Percent %
E / VA-Copolymer	24937-78-8	> 99
Vinyl acetate	108-05-4	< 0.25

4. First aid measures

Skin
Wash off immediately with soap and plenty of water. Cool skin rapidly with cold water after contact with molten polymer. Do not peel solidified product off the skin. Obtain medical attention.

Eyes
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Inhalation
Move to fresh air. If symptoms persist, call a physician.

Ingestion
Get medical attention if symptoms occur.

5. Fire-fighting measures

NFPA: **Health:** 1 **Flammability:** 0 **Instability:** 0

Suitable extinguishing media
Water spray, Dry chemical, Carbon dioxide (CO2), Foam***

Extinguishing media which must not be used for safety reasons
Do not use a solid water stream as it may scatter and spread fire.

Special protective equipment for fire-fighters
Wear self contained breathing apparatus for fire fighting if necessary.

Other Information
Keep people away from and upwind of fire. Dust can form an explosive mixture in air

6. Accidental release measures

Personal precautions
Avoid dust formation. Avoid contact with the skin and the eyes. For personal protection see section 8.

Environmental precautions
Do not flush into surface water or sanitary sewer system.

Methods for cleaning up
Sweep up and shovel into suitable containers for disposal. Dispose of in accordance with local regulations. Use mechanical handling equipment.

7. Handling and storage

Advice on safe handling
Do not handle hot or molten material without appropriate protective equipment. Do not exceed recommended process temperatures to minimize release of decomposition products. Handle in accordance with good industrial hygiene and safety practice. Avoid dust formation. Provide appropriate exhaust ventilation at machinery and at places where dust can be generated***

Protection - fire and explosion:
Avoid dust formation. Dust can form an explosive mixture in air.

Material storage
Store locked up. Keep in a dry, cool place. To maintain product quality, do not store in heat or direct sunlight.***

Incompatible products
Strong oxidizing agents***

8. Exposure controls / personal protection

OSHA Exposure Limits

Components	TWA
Respirable Dust	5 mg/m³
Total Dust	15 mg/m³

Components	STEL
Vinyl acetate	20 PPM

ACGIH Exposure Limits

Components	TWA
Respirable Dust	3 mg/m³
Vinyl acetate	10 PPM
Total Dust	10 mg/m³

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

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
Do not breathe dust. Avoid contact with skin and eyes. Do not handle hot or molten material without appropriate protective equipment.***

Skin protection:
When thermal or melt processing, wear long pants, long sleeves, well insulated gloves, and face shield when there is a chance of contact..

Eye/face protection:
Safety glasses with side-shields.

9. Physical and chemical properties

Appearance

Form	pellets, powder
Color	clear , to, white
Odor	Mild, acrid, vinegar-like
Flash point	Not applicable
Autoignition Temperature	> 330 °C
Method	Estimated
Decomposition Temperature	> 300 °C

Specific Gravity	0.91 - 0.95
Water solubility	insoluble

10. Stability and reactivity

Reactivity
Stable under normal conditions of handling, use and transportation.

Conditions to avoid
Hazardous decomposition products may be produced when the recommended processing temperatures or times are exceeded. Avoid temperatures above 210°C

Incompatible Materials
Strong oxidizing agents***

Hazardous Combustion or Decomposition Products:
Carbon oxides

11. Toxicological information

Potential health effects

Routes of exposure Skin, eyes, inhalation.

Immediate effects

Skin Hot or molten material has the potential to cause thermal burns.

Eyes Particulates may cause mechanical irritation.

Inhalation Dust irritating to respiratory tract.

Ingestion Essentially non-toxic based on components.

Other: Product contains residual Vinyl Acetate, 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
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/m³
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 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	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/m³

Observe the usual hygienic measures for handling chemicals.

12. Ecological Information

Ecotoxicological data are not available. Do not discharge product unmonitored into the environment.

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.

***

14. Transport information

US Department of Transportation Not regulated

14. Transport information

TDG 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:
Listed

Environmental Regulations:

SARA 313 Chemicals
Vinyl acetate (108-05-4) 0.3 %

Vinyl acetate 108-05-4

EPCRA Section 313	Listed
CERCLA Hazardous Substance	Listed
Extremely Hazardous Substance	Listed

SARA 311:

Acute health:	No
Chronic health:	Yes
Fire:	No
Sudden release of pressure:	No
Reactive:	No

INTERNATIONAL REGULATIONS

International Inventories
Listed on the chemical inventories of the following countries or qualifies for an exemption:
Australia (AICS)
Canada (DSL)
China (IECSC)
Japan (ENCS)
Japan (ISHL)
Korea (KECI)
New Zealand (NZIoC)
Philippines (PICCS)
Europe (EINECS)
United States (TSCA)

16. Other information

NFPA:	Health: 1	Flammability: 0	Instability: 0
HMIS:	Health: 1	Flammability: 0	Physical Hazard: 0

Prepared By
Product Stewardship Department
Celanese

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..

Other Information:
Observe national and local legal requirements
Changes against the previous version are marked by ***

For industrial use only. The information contained herein is accurate to the best of our knowledge. We do not suggest or guarantee that any hazards listed herein are the only ones which exist. Celanese makes no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances. Effects can be aggravated by other materials and/or this material may aggravate or add to the effects of other materials. This material may be released from gas, liquid, or solid materials made directly or indirectly from it. User has the sole responsibility to determine the suitability of the materials for any use and the manner of use contemplated. User must meet all applicable safety and health standards. Material safety data sheets are provided on the Internet by Celanese as a service to its customers. Possession of an Internet MSDS does not indicate that the possessor of the MSDS was a purchaser or user of the subject product.

Abbreviation and Acronym:

ADR = Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
CAS = Chemical Abstracts Service (division of the American Chemical Society)
CLP = Classification, Labelling and Packaging
DNEL = Derived No Effect Level
EINECS = European Inventory of Existing Commercial Chemical Substances
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC Code = International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (IMO)
ICAO = International Civil Aviation Organization
RID = Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
R-Phrases = Risk Phrases
S-Phrases = Safety Phrases