

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: Eastman(TM) Cellulose Acetate Butyrate (CAB-381-20)

Product No.: EAN 911108. 01875-00, P0187558, P0187551, P0187554, P0187550, P0187559, P0187560, P0187552, P0187553, P0187557, P0187561, P0187555, P0187556, P0187500, P0187501, P0187532, P01875AB, P01875WB, P0187572, E0187501, P0187538, P0187534, P01875SB, P0187539, P0187562

Synonyms, Trade Names: 01875-00

Additional identification

Chemical name: cellulose acetate butyrate
CAS-No.: 9004-36-8

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Polymer

Uses advised against: None known.

1.3 Details of the supplier of the safety data sheet

Manufacturer / Supplier

Eastman Chemical Company
200 South Wilcox Drive
Kingsport, TN 37660-5280 US
+14232292000

Visit our website at www.EASTMAN.com or email emmsds@eastman.com

1.4 Emergency telephone number:

For emergency health, safety and environmental information, dial Singapore 0011-65-6831-3100 or dial United States 0011-1-423-229-4511

For emergency transportation information, in Australia: dial 000 within Australia or 111 within New Zealand and ask for the Fire Brigade.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has not been classified as hazardous according to the legislation in force.

Hazard summary

Physical hazards: Not classified as hazardous.

Health hazards

Inhalation: None known.

Eye contact: Molten material will produce thermal burns.

Skin contact: Molten material will produce thermal burns.

Ingestion: None known.

Other Health Effects: None known.

Environmental hazards: None known.

2.2 Label elements Not applicable

2.3 Other hazards: Powdered material may form explosive dust-air mixtures.

SECTION 3: Composition/information on ingredients

3.1 / 3.2 Substances / Mixtures

General information:

Chemical name	Concentration	Additional identification	Notes
cellulose acetate butyrate	100%	CAS-No.: 9004-36-8 EC No.: 618-381-2	

Explanation for Notes (if applicable):

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

This substance has workplace exposure limit(s).

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation: Move to fresh air. Treat symptomatically. Get medical attention if symptoms persist.

Eye contact: Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. Get medical attention if symptoms persist. If molten material contacts the eye, immediately flush with plenty of water for at least 15 minutes. Get medical attention immediately.

Skin contact: Wash with soap and water. Get medical attention if symptoms occur. If burned by contact with hot material, cool molten material adhering to skin as quickly as possible with water, and see a physician for removal of adhering material and treatment of burn. Get medical attention.

Ingestion: Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed: Burns should be treated as thermal burns. The material will come off as healing occurs; therefore, immediate removal from the skin is not necessary.

4.3 Indication of any immediate medical attention and special treatment needed

Hazards:	Contact with molten substance/product may cause severe burns to skin and eyes.
Treatment:	Treat symptomatically.

SECTION 5: Firefighting measures

General fire hazards:	Material can accumulate static charges which may cause an electrical spark (ignition source). Use proper bonding and/or grounding procedures.
5.1 Extinguishing media	
Suitable extinguishing media:	Water spray. Dry chemical. Carbon Dioxide.
Unsuitable extinguishing media:	None known.
5.2 Special hazards arising from the substance or mixture:	Powdered material may form explosive dust-air mixtures.
5.3 Advice for firefighters	
Special fire fighting procedures:	Minimize dust generation and accumulation.
Special protective equipment for fire-fighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:	Wear appropriate personal protective equipment.
6.2 Environmental precautions:	Not regarded as dangerous for the environment.
6.3 Methods and material for containment and cleaning up:	Sweep up and place in a clearly labeled container for chemical waste.
Notification Procedures:	In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

SECTION 7: Handling and storage:

7.1 Precautions for safe handling:	Avoid contact with molten material. Mixing cellulose esters in a nonpolar hydrocarbon, such as toluene or xylene, may result in the buildup of static electricity, which can cause a flash fire or an explosion. When adding cellulose ester to any flammable liquid, an inert gas atmosphere should be maintained within the vessel.
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7.2 Conditions for safe storage, including any incompatibilities: Keep container closed.

7.3 Specific end use(s): Polymer

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Country specific exposure limits have not been established or are not applicable unless listed below.

8.2 Exposure controls

Appropriate engineering controls: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

General information: Eye bath. Washing facilities.

Eye/face protection: It is a good industrial hygiene practice to minimize eye contact. Wear a face shield when working with molten material.

Skin protection

Hand protection: It is a good industrial hygiene practice to minimize skin contact. When material is heated, wear gloves to protect against thermal burns.

Other: No data available.

Respiratory Protection: If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Respirator type: Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister. Contact health and safety professional or manufacturer for specific information.

Hygiene measures: Observe good industrial hygiene practices.

Environmental Controls: No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical State:	Solid
Form:	Dust/powder
Color:	White
Odor:	Slight, Characteristic
Odor Threshold:	Not determined.
pH:	No data available.
Melting Point	127 - 240 °C
Boiling Point:	No data available.
Flash Point:	not applicable, combustible solid
Evaporation Rate:	Not applicable
Flammability (solid, gas):	No data available.
Flammability Limit - Upper (%)-:	No data available.
Flammability Limit - Lower (%)-:	No data available.
Vapor pressure:	Not applicable
Vapor density (air=1):	No data available.
Specific Gravity:	> 1 (estimated)
Solubility(ies)	
Solubility in Water:	Negligible
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Autoignition Temperature:	No data available.
Decomposition Temperature:	302.95 °C (DSC) 353.5 KJ/kg
Dynamic Viscosity:	No data available.
Kinematic viscosity:	Not applicable
Explosive properties:	No data available.
Oxidizing properties:	No data available.

Other information

Dust Explosion Description Number Kst:	213 m.b_/s (ASTM E1226-88)
Dust Explosion Class:	St 2 - strong explosion

SECTION 10: Stability and reactivity

10.1 Reactivity:	None known. Materials containing similar structural groups are normally stable.
10.2 Chemical stability:	Not fully evaluated.
10.3 Possibility of hazardous reactions:	None known.
10.4 Conditions to avoid:	Avoid dust formation.
10.5 Incompatible materials:	Strong oxidizing agents.

10.6 Hazardous decomposition products: Carbon Monoxide. Carbon Dioxide.

SECTION 11: Toxicological information

Information on likely routes of exposure

Inhalation: None known.
Ingestion: None known.
Skin contact: Molten material will produce thermal burns.
Eye contact: Molten material will produce thermal burns.

11.1 Information on toxicological effects

Acute Toxicity

Oral

Product: No data available.

Specified substance(s)

cellulose acetate butyrate Oral LD-50: (Rat): > 3,200 mg/kg (highest dose tested)

Dermal

Product: No data available.

Specified substance(s)

cellulose acetate butyrate Dermal LD-50: (Guinea Pig): > 1,000 mg/kg (highest dose tested)

Inhalation

Product: No data available.

Specified substance(s)

cellulose acetate butyrate No data available.

Repeated dose toxicity

Product: No data available.

Specified substance(s)

cellulose acetate butyrate No data available.

Skin corrosion/irritation:

Product: No data available.

Specified substance(s)

cellulose acetate butyrate (Guinea Pig, 24 h): slight

Serious eye damage/eye irritation:

Product: No data available.

Specified substance(s)

cellulose acetate butyrate No data available.

Respiratory or skin sensitization:**Product:** No data available.**Specified substance(s)**
cellulose acetate butyrate Skin Sensitization:, - non-sensitizing**Mutagenicity****In vitro****Product:** No data available.**Specified substance(s)**
cellulose acetate butyrate No data available.**In vivo****Product:** No data available.**Specified substance(s)**
cellulose acetate butyrate No data available.**Carcinogenicity****Product:** No data available.**Specified substance(s)**
cellulose acetate butyrate No data available.**Reproductive toxicity****Product:** No data available.**Specified substance(s)**
cellulose acetate butyrate No data available.**Specific target organ toxicity - single exposure****Product:** No data available.**Specified substance(s)**
cellulose acetate butyrate No data available.**Specific target organ toxicity - repeated exposure****Product:** No data available.**Specified substance(s)**
cellulose acetate butyrate No data available.**Aspiration hazard****Product:** No data available.**Specified substance(s)**
cellulose acetate butyrate No data available.**Other adverse effects:** No data available.

SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity

Fish

Product: No data available.

Specified substance(s)

cellulose acetate butyrate No data available.

Aquatic invertebrates

Product: No data available.

Specified substance(s)

cellulose acetate butyrate No data available.

Chronic Toxicity

Fish

Product: No data available.

Specified substance(s)

cellulose acetate butyrate No data available.

Aquatic invertebrates

Product: No data available.

Specified substance(s)

cellulose acetate butyrate No data available.

Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s)

cellulose acetate butyrate No data available.

12.2 Persistence and degradability

Biodegradation

Product: No data available.

Specified substance(s)

cellulose acetate butyrate No data available.

Biological Oxygen Demand:

Product No data available.

Specified substance(s)

cellulose acetate butyrate No data available.

Chemical Oxygen Demand:

Product No data available.

Specified substance(s)

cellulose acetate butyrate No data available.

BOD/COD ratio

Product No data available.

Specified substance(s)

cellulose acetate butyrate No data available.

12.3 Bioaccumulative potential

Product: No data available.

Specified substance(s)

cellulose acetate butyrate No data available.

12.4 Mobility in soil:

No data available.

Known or predicted distribution to environmental compartments

cellulose acetate butyrate No data available.

12.5 Results of PBT and vPvB assessment:

No data available.

cellulose acetate butyrate No data available.

12.6 Other adverse effects:

No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information: No data available.

Disposal methods: Dispose of waste and residues in accordance with local authority requirements. Incinerate.

SECTION 14: Transport information

Important Note: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Consult your company's Hazardous Materials/Dangerous Goods expert for information specific to your situation.

IMDG - International Maritime Dangerous Goods Code
 Class not regulated

IATA
 Class not regulated

ADG
 Dangerous Goods Class Number: None allocated
 Dangerous Goods Subsidiary Risk: None allocated

Hazchem Code: 1(Z)
Packaging Group: None allocated

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

TSCA (US Toxic Substances Control Act): This product is listed on the TSCA inventory. Any impurities present in this product are exempt from listing.

DSL (Canadian Domestic Substances List) and CEPA (Canadian Environmental Protection Act): This product is listed on the DSL. Any impurities present in this product are exempt from listing.

AICS / NICNAS (Australian Inventory of Chemical Substances and National Industrial Chemicals Notification and Assessment Scheme): This product is listed on AICS or otherwise complies with NICNAS.

MITI (Japanese Handbook of Existing and New Chemical Substances): This product is listed in the Handbook or has been approved in Japan by new substance notification.

ECL (Korean Toxic Substances Control Act): This product is listed on the Korean inventory or otherwise complies with the Korean Toxic Substances Control Act.

Philippines Inventory (PICCS): This product is listed on the Philippine Inventory or otherwise complies with PICCS.

Inventory of Existing Chemical Substances in China: All components of this product are listed on the Inventory of Existing Chemical Substances in China (IECSC).

SECTION 16: Other information

Revision Information: New SDS

Key literature references and sources for data: No data available.

Training information: No data available.

Regulation (EC) No. 1272/2008

Issue date: 14.08.2014

SDS No.:

Disclaimer: This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.