

**Eastman Sustane(TM) SAIB ET-10 (Sucrose Acetate Isobutyrate) Food Grade, Kosher, 20080**

Version	Revision Date:	SDS Number:	Date of last issue: -
2.1	07/26/2018	150000015366	Date of first issue: 09/06/2016
PRD		SDSUS / Z8 / 0001	

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**SECTION 1. IDENTIFICATION**

Product name : Eastman Sustane(TM) SAIB ET-10 (Sucrose Acetate Isobutyrate) Food Grade, Kosher, 20080

Product code : 20080-00, P2008001, P2008003, P2008005, P2008006, E2008003, P2008007

**Manufacturer or supplier's details**

Company name of supplier : Eastman Chemical Company

Address : 200 South Wilcox Drive  
Kingsport TN 37660-5280

Telephone : (423) 229-2000

Emergency telephone : CHEMTREC: +1-800-424-9300, +1-703-527-3887 CCN7321

**Recommended use of the chemical and restrictions on use**

Recommended use : Food additive.  
Cosmetic.

Restrictions on use : None known.

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**SECTION 2. HAZARDS IDENTIFICATION****GHS classification in accordance with 29 CFR 1910.1200**

Flammable liquids : Category 2

**GHS label elements**

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H225 Highly flammable liquid and vapor.

Precautionary Statements :

**Prevention:**

P210 Keep away from heat/sparks/open flames/hot surfaces.  
No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ ventilating/ lighting/ equip-

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ment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P280 Wear protective gloves/ eye protection/ face protection.

**Response:**

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

**Storage:**

P403 + P235 Store in a well-ventilated place. Keep cool.

**Disposal:**

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

**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS****Ingredients**

Chemical name	CAS-No.	Concentration (% w/w)
sucrose acetate isobutyrate	126-13-6, 27216-37-1, or 137204-24-1	85 - 91
ethyl alcohol	64-17-5	9 - 15

**SECTION 4. FIRST AID MEASURES**

If inhaled	: Move to fresh air. Treat symptomatically. If symptoms persist, call a physician.
In case of skin contact	: Wash off with soap and water. If symptoms persist, call a physician.
In case of eye contact	: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
If swallowed	: Get medical advice/ attention.
Most important symptoms and effects, both acute and delayed	: None known.
Notes to physician	: Treat symptomatically.

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**SECTION 5. FIRE-FIGHTING MEASURES**

- Suitable extinguishing media : Carbon dioxide (CO2)  
Dry chemical  
Water spray
- Unsuitable extinguishing media : Water spray jet
- Specific hazards during fire fighting : Water may be ineffective.  
The product will float on water and can be reignited on surface water.
- Further information : Highly flammable liquid and vapor.  
Use water spray to cool unopened containers.
- Special protective equipment for fire-fighters : Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Local authorities should be advised if significant spillages cannot be contained.
- Environmental precautions : Avoid release to the environment.
- Methods and materials for containment and cleaning up : Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).  
After cleaning, flush away traces with water.  
Eliminate all ignition sources if safe to do so.

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**SECTION 7. HANDLING AND STORAGE**

- Advice on protection against fire and explosion : None known.
- Advice on safe handling : Keep away from fire (No Smoking).  
Keep away from fire, sparks and heated surfaces.  
Do not use sparking tools.
- Conditions for safe storage : Keep container closed when not in use.

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**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Ingredients with workplace control parameters**

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Ingredients	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
ethyl alcohol	64-17-5	STEL	1,000 ppm	ACGIH
		TWA	1,000 ppm 1,900 mg/m3	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m3	OSHA Z-1
		TWA	1,000 ppm 1,900 mg/m3	OSHA P0

**Engineering measures** : Ensure adequate ventilation.

**Personal protective equipment**

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Hand protection

Remarks : Wear suitable gloves.

Eye protection : Safety glasses

Protective measures : Remove respiratory and skin/eye protection only after vapors have been cleared from the area.  
Ensure that eye flushing systems and safety showers are located close to the working place.  
Use personal protective equipment as required.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : viscous liquid

Color : colorless

Odor : sweet

Odor Threshold : not determined

pH : not determined

Melting point/range : not determined

Boiling point/boiling range : 221 °F / 105 °C

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Flash point	:	60.6 °F / 15.9 °C
		Method: Tag closed cup
Evaporation rate	:	not determined
Vapor pressure	:	not determined
Relative vapor density	:	1.5
Relative density	:	1.1
Solubility(ies)		
Water solubility	:	appreciable
Partition coefficient: n-octanol/water	:	Pow: 3.6 log Pow: 0.56
Autoignition temperature	:	669 °F / 354 °C Method: ASTM E659
Decomposition temperature	:	Method: HPDTA No exotherm to boiling
Viscosity		
Viscosity, dynamic	:	1.07 mPa.s (77 °F / 25 °C)
Viscosity, kinematic	:	not determined
Explosive properties	:	No data available
Oxidizing properties	:	No data available

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	:	Stable
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	Stable Hazardous decomposition products formed under fire conditions.
Conditions to avoid	:	Heat, flames and sparks.
Incompatible materials	:	Oxidizing agents
Hazardous decomposition products	:	Carbon dioxide (CO2) Carbon monoxide

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**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity**

Not classified based on available information.

Not classified based on available information.

**Product:**

Acute oral toxicity : Remarks: No data available

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

**Ingredients:****ethyl alcohol:**

Acute oral toxicity : LD50 Oral (Rat): 10,470 mg/kg

Acute inhalation toxicity : LC50 (Rat): 117 - 125 mg/l  
Exposure time: 4 h

Acute dermal toxicity : LD50 Dermal (Rabbit): &gt; 15,800 mg/kg

**Skin corrosion/irritation**

Not classified based on available information.

Not classified based on available information.

**Product:**

Remarks : No data available

**Ingredients:****ethyl alcohol:**

Species : Rabbit

Exposure time : 24 h

Result : none

**Serious eye damage/eye irritation**

Not classified based on available information.

Not classified based on available information.

**Product:**

Remarks : No data available

**Ingredients:****ethyl alcohol:**

Species : Rabbit

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Result : slight

**Respiratory or skin sensitization****Skin sensitization**

Not classified based on available information.

**Skin sensitization**

Not classified based on available information.

**Respiratory sensitization**

Not classified based on available information.

**Respiratory sensitization**

Not classified based on available information.

**Product:**

Remarks : No data available

**Ingredients:****ethyl alcohol:**

Test Type	:	Skin Sensitization
Species	:	Mouse
Result	:	non-sensitizing

**Germ cell mutagenicity**

Not classified based on available information.

Not classified based on available information.

**Carcinogenicity**

Not classified based on available information.

Not classified based on available information.

**Product:**

Remarks : This information is not available.

**IARC** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**Reproductive toxicity**

Not classified based on available information.

Not classified based on available information.

**Product:**

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Effects on fertility : Remarks: No data available

**STOT-single exposure**

Not classified based on available information.

Not classified based on available information.

**Product:**

Remarks : No data available

**STOT-repeated exposure**

Not classified based on available information.

Not classified based on available information.

**Product:**

Remarks : No data available

**Aspiration toxicity**

Not classified based on available information.

Not classified based on available information.

**Product:**

No aspiration toxicity classification

**Information on likely routes of exposure****Product:**

Inhalation : Remarks: None known.

Skin contact : Remarks: None known.

Eye contact : Remarks: None known.

Ingestion : Remarks: None known.

**Further information****Product:**

Remarks : None known.

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Ingredients:****ethyl alcohol:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 15,300 mg/l  
Exposure time: 96 h



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Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): 5,012 mg/l  
Exposure time: 48 h

Toxicity to algae : EC50 (Selenastrum capricornutum (green algae)): 275 mg/l  
Exposure time: 72 h

**Persistence and degradability****Ingredients:****ethyl alcohol:**

Biodegradability : Concentration: 10 mg/l  
Result: Readily biodegradable.  
Biodegradation: 84 %  
Exposure time: 20 d

Chemical Oxygen Demand (COD) : 1,990 mg/g

**Bioaccumulative potential****Ingredients:****ethyl alcohol:**

Bioaccumulation : Remarks: Does not accumulate in organisms.

**Mobility in soil**

No data available

**Other adverse effects**

No data available

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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues : Dispose of in accordance with local regulations.

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**SECTION 14. TRANSPORT INFORMATION****International Regulations****IATA-DGR**

UN/ID No.	: UN 1170
Proper shipping name	: Ethanol solution
Class	: 3
Packing group	: II
Labels	: Flammable Liquids
Packing instruction (cargo)	: 364

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aircraft)  
Packing instruction (passenger aircraft) : 353

**IMDG-Code**

UN number : UN 1170  
Proper shipping name : ETHANOL SOLUTION

Class : 3  
Packing group : II  
Labels : 3  
EmS Code : F-E, S-D  
Marine pollutant : no

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**Domestic regulation****49 CFR**

UN/ID/NA number : UN 1170  
Proper shipping name : Ethanol solutions  
  
Class : 3  
Packing group : II  
Labels : Class 3 - Flammable Liquid  
ERG Code : 127  
Marine pollutant : no

**Special precautions for user**

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

**SECTION 15. REGULATORY INFORMATION****EPCRA - Emergency Planning and Community Right-to-Know****SARA 302 Extremely Hazardous Substances Threshold Planning Quantity**

Ingredients	CAS-No.	Component TPQ (lbs)
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**SARA 311/312 Hazards** : Fire Hazard

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**The ingredients of this product are reported in the following inventories:**

CH INV : On the inventory, or in compliance with the inventory

DSL : On the inventory, or in compliance with the inventory

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AICS : On the inventory, or in compliance with the inventory

NZIoC : On the inventory, or in compliance with the inventory

ENCS : On the inventory, or in compliance with the inventory

ISHL : On the inventory, or in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

TCSI : On the inventory, or in compliance with the inventory

TSCA : On the inventory, or in compliance with the inventory

**TSCA list**

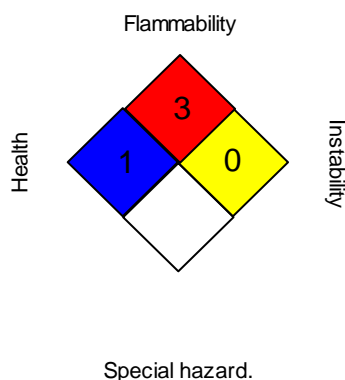
No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

**SECTION 16. OTHER INFORMATION**

**Further information**

**NFPA 704:**



**HMIS® IV:**

HEALTH	/	1
FLAMMABILITY		3
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

**Full text of other abbreviations**

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

NIOSH REL : USA. NIOSH Recommended Exposure Limits

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OSHA P0	:	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
ACGIH / STEL	:	Short-term exposure limit
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
OSHA P0 / TWA	:	8-hour time weighted average
OSHA Z-1 / TWA	:	8-hour time weighted average

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance 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

Revision Date : 07/26/2018

The information provided in this Material 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only

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to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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