SAFETY DATA SHEET

Eastman(TM) SAIB-100 (Sucrose Acetate Isobutyrate)

SECTION 1. IDENTIFICATION

Product name : Eastman(TM) SAIB-100 (Sucrose Acetate Isobutyrate)

Product code : 01197-00, P0119701, P0119706, P0119707, P0119708, P0119709, E0119701

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 : Plasticizer
Cosmetic.
Restrictions on use : None known.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200
Not a hazardous substance or mixture.

GHS label elements
Not a hazardous substance or mixture.

Other hazards
None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>sucrose acetate isobutyrate</td>
<td>27216-37-1</td>
<td>100</td>
</tr>
</tbody>
</table>

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.

If needed, a solvent of low toxicity, such as ethyl acetate, may be used sparingly to remove material from the skin.

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

If swallowed: Seek medical advice.

Most important symptoms and effects, both acute and delayed: None known.

Notes to physician: Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Water spray
Carbon dioxide (CO2)
Dry chemical

Unsuitable extinguishing media: Do not use a solid water stream as it may scatter and spread fire.

Specific hazards during firefighting: None known.

Hazardous combustion products: No hazardous combustion products are known

Further information: None known.

Special protective equipment for fire-fighters: Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

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).

SECTION 7. HANDLING AND STORAGE
Advice on protection against fire and explosion: None known.

Advice on safe handling: Wash thoroughly after handling. Use only in area provided with appropriate exhaust ventilation.

Conditions for safe storage: Keep tightly closed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters:
Contains no substances with occupational exposure limit values.

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: Ensure that eye flushing systems and safety showers are located close to the working place.

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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: viscous liquid
Color: yellow
Odor: slight
Odor Threshold: not determined
pH: not determined
Melting point/range: not determined
Boiling point/boiling range: 550 °F / 288 °C
Flash point: 441 °F / 227 °C
Evaporation rate: not determined

Upper explosion limit / Upper flammability limit: not determined

Lower explosion limit / Lower flammability limit: not determined

Vapor pressure: not determined

Relative vapor density: not determined

Relative density: 1.146 (77 °F / 25 °C)

Solubility(ies)
   Water solubility: negligible

Partition coefficient: n-octanol/water
   Pow: 1,000,000
   log Pow: 6

Autoignition temperature: not determined

 Decomposition temperature: Method: DTA
   No exotherm to 400°C

Viscosity
   Viscosity, dynamic: 100,000 mPa.s (86 °F / 30 °C)

   Viscosity, kinematic: not determined

Explosive properties: No data available

Oxidizing properties: No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity: None reasonably foreseeable.

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: Stable

Conditions to avoid: None known.

Incompatible materials: Strong oxidizing agents

Hazardous decomposition products: Carbon dioxide (CO2)
   Carbon monoxide
SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity
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

Components:
sucrose acetate isobutyrate:
Acute oral toxicity : LD50 Oral (Rat): > 25,600 mg/kg
LD50 Oral (Mouse): > 25,600 mg/kg
Acute dermal toxicity : LD50 Dermal (Rat): > 22,000 mg/kg
LD50 Dermal (Guinea pig): > 22,000 mg/kg

Skin corrosion/irritation
Not classified based on available information.

Product:
Remarks : No data available

Components:
sucrose acetate isobutyrate:
Species : Guinea pig
Exposure time : 24 h
Result : none

Serious eye damage/eye irritation
Not classified based on available information.

Product:
Remarks : No data available

Components:
sucrose acetate isobutyrate:
Species : Rabbit
Result : slight
Respiratory or skin sensitization

Skin sensitization
Not classified based on available information.

Respiratory sensitization
Not classified based on available information.

Product:
Remarks : No data available

Components:
Sucrose acetate isobutyrate:
Test Type : Skin sensitization
Species : Guinea pig
Result : negative

Germ cell mutagenicity
Not classified based on available information.

Carcinogenicity
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.

Product:
Effects on fertility : Remarks: No data available

STOT-single exposure
Not classified based on available information.

Product:
Remarks : No data available

STOT-repeated exposure
Not classified based on available information.
Product:
Remarks: No data available

Aspiration toxicity
Not classified based on available information.

Product:
No data available

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.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:
sucrose acetate isobutyrate:
Toxicity to fish: LC50 (Pimephales promelas (fathead minnow)): > 1.82 mg/l
Exposure time: 96 h
Remarks: No toxicity at the limit of solubility.

NOEC: (Pimephales promelas (fathead minnow)): 1.82 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia): > 1.11 mg/l
Exposure time: 48 h
Remarks: No toxicity at the limit of solubility.

NOEC: (Daphnia): 1.11 mg/l
Exposure time: 48 h

Persistence and degradability

Components:
sucrose acetate isobutyrate:
Biodegradability: Result: Not readily biodegradable.

Biochemical Oxygen Demand (BOD): 560 - 1,400 mg/l
Incubation time: 5 d
1,200 - 2,000 mg/g
Incubation time: 20 d

Chemical Oxygen Demand (COD): 1,630 mg/g

Bioaccumulative potential

Components:
sucrose acetate isobutyrate:
Partition coefficient: n-octanol/water: Pow: 1,000,000 log Pow: 6

Mobility in soil
No data available

Other adverse effects
No data available

SECTION 13. DISPOSAL CONSIDERATIONS

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

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR
Not regulated as a dangerous good

IMDG-Code
Not regulated as a dangerous good

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
Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity
This material does not contain any components with a CERCLA RQ.
SARA 304 Extremely Hazardous Substances Reportable Quantity
This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity
This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards
: No SARA Hazards

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.

California Prop. 65
This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

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

- DSL : All components of this product are on the Canadian DSL
- AICS : 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
- KECSI : 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 : All substances listed as active on the TSCA 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:

<table>
<thead>
<tr>
<th>Health</th>
<th>Flameability</th>
<th>Special hazard</th>
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</thead>
<tbody>
<tr>
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<td>0</td>
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</table>

HMIS® IV:

<table>
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<tr>
<th>HEALTH</th>
<th>FLAMMABILITY</th>
<th>PHYSICAL HAZARD</th>
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<td></td>
<td>1</td>
<td>0</td>
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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

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 Amend-
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Revision Date: 06/17/2019

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 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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