

Version Revision Date: SDS Number: Date of last issue: -

1.1 04/12/2017 150000072186 Date of first issue: 09/06/2016

SDSUS / PRD / 0001

### **SECTION 1. IDENTIFICATION**

Product name : Eastman(TM) Isopropyl Acetate

Product code : EAN 900279. 32953-00, P3295300, P3295304, P3295307,

P3295301, P3295308

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 : Solvent

Restrictions on use : None known.

## **SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification** 

Flammable liquids : Category 2

Eye irritation : Category 2B

Specific target organ

systemic toxicity - single

exposure

: Category 3 (Central nervous system)

**GHS** label elements

Hazard pictograms





Signal Word : Danger

Hazard Statements : H225 Highly flammable liquid and vapor.

H320 Causes eye irritation.

H336 May cause drowsiness or dizziness.

Precautionary Statements : Prevention:

P210 Keep away from heat/sparks/open flames/hot surfaces.



Version Revision Date: 1.1 04/12/2017

SDSUS / PRD / 0001

SDS Number: 150000072186 Date of last issue: -

Date of first issue: 09/06/2016

No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

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.

P304 + P340 + P312 IF INHALED: Remove person to fresh air

and keep comfortable for breathing. Call a POISON

CENTER/doctor if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/ atten-

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

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

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

P405 Store locked up.

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)	
isopropyl acetate	108-21-4	100	

#### **SECTION 4. FIRST AID MEASURES**

If inhaled Move to fresh air.

Treat symptomatically.

If symptoms persist, call a physician.

: Wash off with soap and water. In case of skin contact

If symptoms persist, call a physician.



Version Revision Date: SDS Number: Date of last issue: -

1.1 04/12/2017 150000072186 Date of first issue: 09/06/2016

SDSUS / PRD / 0001

In case of eye contact : Remove contact lenses, if present and easy to do. Continue

rinsing.

If eye irritation persists: Get medical advice/ attention.

If swallowed : Seek medical advice.

Most important symptoms and effects, both acute and

delayed

Causes eye irritation.

May cause drowsiness or dizziness.

Notes to physician : Treat symptomatically.

#### **SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media : Carbon dioxide (CO2)

Dry chemical Water spray

Alcohol-resistant foam

Unsuitable extinguishing

media

None known.

Specific hazards during fire

fighting

: Water may be ineffective.

The product will float on water and can be reignited on surface

water.

Hazardous combustion prod-

ucts

: No hazardous combustion products are known

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.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emer-

gency procedures

: Wear appropriate 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.



Version Revision Date: SDS Number: Date of last issue: -

1.1 04/12/2017 150000072186 Date of first issue: 09/06/2016

SDSUS / PRD / 0001

#### **SECTION 7. HANDLING AND STORAGE**

Advice on protection against

fire and explosion

: Keep away from heat and sources of ignition.

Advice on safe handling : Do not get in eyes.

Wash thoroughly after 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.

Store locked up.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Ingredients with workplace control parameters

Ingredients	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
isopropyl acetate	108-21-4	TWA	100 ppm	ACGIH
		STEL	200 ppm	ACGIH
		TWA	250 ppm 950 mg/m3	OSHA Z-1
		TWA	250 ppm 950 mg/m3	OSHA P0
		STEL	310 ppm 1,185 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 : Wear safety glasses with side shields (or goggles).

Face-shield

Always wear eye protection when the potential for inadvertent

eye contact with the product cannot be excluded.

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.



Version Revision Date: SDS Number: Date of last issue: -

1.1 04/12/2017 150000072186 Date of first issue: 09/06/2016

SDSUS / PRD / 0001

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

practice.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Color : colorless

Odor : sweet, fruity

Odor Threshold : not determined

Boiling point/boiling range : 85 °C

Flash point : 2 °C

Method: Tag closed cup

Evaporation rate : not determined

Upper explosion limit : 40 %(V)

Lower explosion limit : 1.76 %(V)

Vapor pressure : not determined

Relative vapor density : 3.5

Relative density : 0.872 (20 °C)

Solubility(ies)

Water solubility : Moderate

Autoignition temperature : 479 °C

Decomposition temperature : Thermal stability not tested. Low stability hazard expected at

normal operating temperatures.

Viscosity

Viscosity, dynamic : 0.60 mPa.s (20 °C)

Viscosity, kinematic : not determined

## **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : Stable

Chemical stability : Stable under normal conditions.

Possibility of hazardous reac- : None known.



Version Revision Date: SDS Number: Date of last issue: -

1.1 04/12/2017 150000072186 Date of first issue: 09/06/2016

SDSUS / PRD / 0001

tions

Conditions to avoid : Incompatible materials

Incompatible materials : Strong oxidizing agents

Hazardous decomposition

products Carbon monoxide

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

#### Acute toxicity

Not classified based on available information.

**Product:** 

Acute oral toxicity : LD50 Oral (Rat): 6,750 mg/kg

Acute inhalation toxicity : LC50 (Rat): 50.6 mg/l

Exposure time: 8 h

Carbon dioxide (CO2)

**Ingredients:** 

isopropyl acetate:

Acute oral toxicity : LD50 Oral (Rat): 6,750 mg/kg

Acute inhalation toxicity : LC50 (Rat): 50.6 mg/l

Exposure time: 8 h

Acute dermal toxicity : LD50 Dermal (Rat): > 20 ml/kg

#### Skin corrosion/irritation

Not classified based on available information.

**Product:** 

Species: Guinea pig Exposure time: 4 h

Result: slight

Remarks: Read-across from a similar material

## Ingredients:

### isopropyl acetate:

Species: Guinea pig Exposure time: 4 h Result: slight

Remarks: Read-across from a similar material

### Serious eye damage/eye irritation

Causes eye irritation.

**Product:** 



Version Revision Date: SDS Number: Date of last issue: -

1.1 04/12/2017 150000072186 Date of first issue: 09/06/2016

SDSUS / PRD / 0001

Species: Rabbit

Result: slight to moderate

#### Ingredients:

# isopropyl acetate:

Species: Rabbit

Result: slight to moderate

### Respiratory or skin sensitization

Skin sensitization: Not classified based on available information.

Respiratory sensitization: Not classified based on available information.

#### **Product:**

Test Type: Skin Sensitization

Species: Guinea pig Result: non-sensitizing

Remarks: Read-across from a similar material

### Ingredients:

#### isopropyl acetate:

Test Type: Skin Sensitization

Species: Guinea pig Result: non-sensitizing

Remarks: Read-across from a similar material

#### Germ cell mutagenicity

Not classified based on available information.

#### Carcinogenicity

Not classified based on available information.

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 ingredient of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential carcino-

gen by OSHA.

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.

## STOT-single exposure

May cause drowsiness or dizziness.

## STOT-repeated exposure

Not classified based on available information.



Version Revision Date: SDS Number: Date of last issue: -

1.1 04/12/2017 150000072186 Date of first issue: 09/06/2016

SDSUS / PRD / 0001

## Repeated dose toxicity

**Product:** 

Species: Rat NOAEL: 900 mg/kg

Application Route: Oral Study

Exposure time: 90 d

Remarks: Read-across from a similar material

## **Ingredients:**

isopropyl acetate:

Species: Rat NOAEL: 900 mg/kg

Application Route: Oral Study

Exposure time: 90 d

Remarks: Read-across from a similar material

## Aspiration toxicity

Not classified based on available information.

#### **Product:**

No aspiration toxicity classification

## Information on likely routes of exposure

**Product:** 

Inhalation : Remarks: May cause drowsiness or dizziness.

Skin contact : Remarks: None known.

Eye contact : Remarks: Causes eye irritation.

Ingestion : Remarks: None known.

#### **Further information**

**Product:** 

Remarks: None known.

## **SECTION 12. ECOLOGICAL INFORMATION**

## **Ecotoxicity**

**Product:** 

Toxicity to fish : LC50 (golden orfe): 265 - 360 mg/l

Exposure time: 48 h

Toxicity to daphnia and other

aquatic invertebrates

: LC50 (daphnid): 1,260 mg/l

Exposure time: 48 h



Version Revision Date: SDS Number: Date of last issue: -

1.1 04/12/2017 150000072186 Date of first issue: 09/06/2016

SDSUS / PRD / 0001

NOEC: (daphnid): 4,150 mg/l

Exposure time: 24 h

Toxicity to algae : ErC50 (Chlorella pyrenoidosa): 370 mg/l

Exposure time: 96 h

Remarks: Read-across from a similar material

**Ingredients:** 

isopropyl acetate:

Toxicity to fish : LC50 (Fish): 265 - 360 mg/l

Exposure time: 48 h

Toxicity to daphnia and other

aquatic invertebrates

: LC50 (daphnid): 1,260 mg/l

Exposure time: 48 h

NOEC: (daphnid): 4,150 mg/l

Exposure time: 24 h

Toxicity to algae : ErC50 (Chlorella pyrenoidosa): 370 mg/l

Exposure time: 96 h

Remarks: Read-across from a similar material

Persistence and degradability

**Product:** 

Biodegradability : Result: Readily biodegradable.

Biodegradation: 76 % Exposure time: 20 d

Method: Ready Biodegradability: Closed Bottle Test

**Ingredients:** 

isopropyl acetate:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 76 % Exposure time: 20 d

Method: Ready Biodegradability: Closed Bottle Test

Bioaccumulative potential

No data available

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.



Version Revision Date: SDS Number: Date of last issue: -

1.1 04/12/2017 150000072186 Date of first issue: 09/06/2016

SDSUS / PRD / 0001

#### **SECTION 14. TRANSPORT INFORMATION**

### **International Regulations**

**IATA-DGR** 

UN/ID No. : UN 1220

Proper shipping name : Isopropyl acetate

Class : 3 Packing group : II

Labels : Flammable Liquids

Packing instruction (cargo : 364

aircraft)

Packing instruction (passen: 353

ger aircraft)

aircraft)

**IMDG-Code** 

UN number : UN 1220

Proper shipping name : ISOPROPYL ACETATE

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

Product name : SOPROPYL ACETATE

Pollution category : Z Ship type : 3

**Domestic regulation** 

49 CFR

UN/ID/NA number : UN 1220

Proper shipping name : ISOPROPYL ACETATE

Class : 3 Packing group : II

Labels : Class 3 - Flammable Liquid

ERG Code : 129 Marine pollutant : no

## **SECTION 15. REGULATORY INFORMATION**

## **EPCRA** - Emergency Planning and Community Right-to-Know

SARA 311/312 Hazards : Fire Hazard

Acute Health Hazard



Version Revision Date: SDS Number: Date of last issue: -

1.1 04/12/2017 150000072186 Date of first issue: 09/06/2016

SDSUS / PRD / 0001

SARA 302 : No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

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

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**

#### 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



Version Revision Date: SDS Number: Date of last issue: -

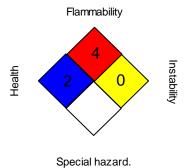
1.1 04/12/2017 150000072186 Date of first issue: 09/06/2016

SDSUS / PRD / 0001

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

### **Further information**

#### NFPA:



#### HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks.

Revision Date : 04/12/2017

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.

US / Z8