

SAFETY DATA SHEET

Creation Date 22-Sep-2009 Revision Date 23-Feb-2018 Revision Number 1

1. Identification

Product Name 2-Ethoxyethyl acetate

Cat No. : A13639

CAS-No 111-15-9

Synonyms Cellosolve^o4 acetate; Ethylene glycol monoethyl ether acetate

Recommended Use Laboratory chemicals.

Uses advised against Not for food, drug, pesticide or biocidal product use

Details of the supplier of the safety data sheet

Company

Alfa Aesar

Thermo Fisher Scientific Chemicals, Inc.

30 Bond Street

Ward Hill, MA 01835-8099

Tel: 800-343-0660 Fax: 800-322-4757

Email: tech@alfa.com

www.alfa.com

Emergency Telephone Number

During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660.

After normal business hours, call Carechem 24 at (866) 928-0789.

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids

Acute oral toxicity

Category 4

Acute dermal toxicity

Category 4

Acute Inhalation Toxicity - Vapors

Reproductive Toxicity

Category 4

Category 4

Category 1A

Label Elements

Signal Word

Danger

Hazard Statements

Flammable liquid and vapor Harmful if swallowed Harmful in contact with skin Harmful if inhaled

May damage fertility. May damage the unborn child

2-Ethoxyethyl acetate Revision Date 23-Feb-2018



Precautionary Statements

Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

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

Use only outdoors or in a well-ventilated area

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

Keep container tightly closed

Ground/bond container and receiving equipment

Use explosion-proof electrical/ventilating/lighting/equipment

Use only non-sparking tools

Take precautionary measures against static discharge

Response

IF exposed or concerned: Get medical attention/advice

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Ckin

Call a POISON CENTER or doctor/physician if you feel unwell

Wash contaminated clothing before reuse

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

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Fire

Fight fire with normal precautions from a reasonable distance

Evacuate area

Storage

Store locked up

Store in a well-ventilated place. Keep cool

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

WARNING. Reproductive Harm - https://www.p65warnings.ca.gov/.

3. Composition/Information on Ingredients

Component	CAS-No	Weight %
2-Ethoxyethyl acetate	111-15-9	99

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.

2-Ethoxyethyl acetate

Inhalation Move to fresh air. Obtain medical attention. If not breathing, give artificial respiration.

Do not induce vomiting. Get medical attention. Ingestion

Most important symptoms and

effects

nausea and vomiting Treat symptomatically

Notes to Physician

5. Fire-fighting measures

Suitable Extinguishing Media Water spray, Carbon dioxide (CO₂), Dry chemical, Chemical foam, Cool closed containers

exposed to fire with water spray.

Unsuitable Extinguishing Media No information available

51 °C / 123.8 °F **Flash Point**

Method -No information available

380 °C / 716 °F **Autoignition Temperature**

Explosion Limits

10.10% Upper Lower 1.70%

Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Flammable. Vapors may travel to source of ignition and flash back. Containers may explode when heated. Vapors may form explosive mixtures with air.

Hazardous Combustion Products

Carbon monoxide (CO) Carbon dioxide (CO2)

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
2	2	0	N/A

Accidental release measures

Personal Precautions

Ensure adequate ventilation. Use personal protective equipment. Remove all sources of ignition. Take precautionary measures against static discharges.

Breathing difficulties. Symptoms of overexposure may be headache, dizziness, tiredness,

Environmental Precautions

See Section 12 for additional ecological information. Do not flush into surface water or

sanitary sewer system.

Up

Methods for Containment and Clean Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Do not let this chemical enter the

environment. Take precautionary measures against static discharges.

7. Handling and storage

Handling

Ensure adequate ventilation. Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing. Do not ingest. Use only in area provided with appropriate exhaust ventilation. Use explosion-proof equipment. Use only non-sparking tools. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges.

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away Storage

from heat and sources of ignition. Flammables area.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
2-Ethoxyethyl acetate	TWA: 5 ppm	(Vacated) TWA: 100 ppm	IDLH: 500 ppm	TWA: 50 ppm
	Skin	(Vacated) TWA: 540 mg/m ³	TWA: 0.5 ppm	TWA: 270 mg/m ³
		Skin	TWA: 2.7 mg/m ³	STEL: 100 ppm
		TWA: 100 ppm		STEL: 540 mg/m ³
		TWA: 540 mg/m ³		_

Legend

Viscosity

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Use explosion-proof electrical/ventilating/lighting/equipment. Ensure adequate ventilation, **Engineering Measures**

especially in confined areas. Ensure that eyewash stations and safety showers are close to

the workstation location.

Personal Protective Equipment

Wear appropriate protective eyeglasses or chemical safety goggles as described by **Eye/face Protection**

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard **Respiratory Protection**

EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if

exposure limits are exceeded or if irritation or other symptoms are experienced.

Handle in accordance with good industrial hygiene and safety practice. **Hygiene Measures**

9. Physical and chemical properties

Physical State Liquid **Appearance** Light yellow Odor aromatic

Odor Threshold No information available No information available Ha

Melting Point/Range -61 °C / -77.8 °F

Boiling Point/Range 156 °C / 312.8 °F @ 760 mmHg

Flash Point 51 °C / 123.8 °F **Evaporation Rate** No information available

Flammability (solid,gas) Not applicable

Flammability or explosive limits Upper 10.10%

Lower 1.70% **Vapor Pressure** No information available

Vapor Density No information available 0.970

Specific Gravity

No information available Solubility Partition coefficient; n-octanol/water No data available 380 °C / 716 °F **Autoignition Temperature Decomposition Temperature** No information available

Molecular Formula C6 H12 O3

No information available

Revision Date 23-Feb-2018 2-Ethoxyethyl acetate

Molecular Weight 132.16

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stable under normal conditions. Stability

Conditions to Avoid Keep away from open flames, hot surfaces and sources of ignition. Incompatible products.

Incompatible Materials Acids, Bases, Strong oxidizing agents

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2)

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
2-Ethoxyethyl acetate	LD50 = 2700 mg/kg (Rat)	LD50 = 10000 mg/kg (Rabbit)	LC50 = 12.1 mg/L (Rat) 8 h

Toxicologically Synergistic

Products

No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
2-Ethoxyethyl acetate	111-15-9	Not listed				

No information available **Mutagenic Effects**

No information available. **Reproductive Effects Developmental Effects** No information available.

Teratogenicity Teratogenic effects have occurred in experimental animals.

STOT - single exposure None known STOT - repeated exposure None known

Aspiration hazard No information available

delayed

Symptoms / effects, both acute and Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

12. Ecological information

2-Ethoxyethyl acetate Revision Date 23-Feb-2018

Ecotoxicity

Do not empty into drains.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
2-Ethoxyethyl acetate	Not listed	LC50: 45 - 52 mg/L, 96h	Not listed	EC50: = 354 mg/L, 24h
		static (Lepomis macrochirus)		(Daphnia magna)
		LC50: = 41 mg/L, 96h		
		flow-through (Lepomis		
		macrochirus)		
		LC50: = 42.2 mg/L, 96h		
		flow-through (Pimephales		
		promelas)		
		, ,		

Persistence and Degradability

Soluble in water Persistence is unlikely based on information available.

Bioaccumulation/ Accumulation

No information available.

Mobility

. Will likely be mobile in the environment due to its water solubility.

Component	log Pow
2-Ethoxyethyl acetate	0.24

13. Disposal considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT

UN-No UN1172

Proper Shipping Name ETHYLENE GLYCOL MONOETHYL ETHER ACETATE

Hazard Class 3 Packing Group III

TDG

UN-No UN1172

Proper Shipping Name ETHYLENE GLYCOL MONOETHYL ETHER ACETATE

Hazard Class 3
Packing Group III

IATA

UN-No UN1172

Proper Shipping Name ETHYLENE GLYCOL MONOETHYL ETHER ACETATE

Hazard Class 3
Packing Group

IMDG/IMO

UN-No UN1172

Proper Shipping Name ETHYLENE GLYCOL MONOETHYL ETHER ACETATE

Hazard Class 3
Packing Group III

15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
2-Ethoxyethyl acetate	Х	Χ	-	203-839-2	-		Χ	Χ	Χ	Χ	Χ

Legend:

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

2-Ethoxyethyl acetate

- P Indicates a commenced PMN substance
- R Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
- S Indicates a substance that is identified in a proposed or final Significant New Use Rule
- T Indicates a substance that is the subject of a Section 4 test rule under TSCA.
- XU Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
- Y1 Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
- Y2 Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)

Component	TSCA 12(b)
2-Ethoxyethyl acetate	Section 5

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
2-Ethoxyethyl acetate	111-15-9	99	1.0

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act) Not applicable

Clean Air Act

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
2-Ethoxyethyl acetate	X		-

OSHA Occupational Safety and Health Administration

Not applicable

CERCLA Not applicable

California Proposition 65 This product contains the following proposition 65 chemicals

Component	CAS-No	California Prop. 65	Prop 65 NSRL	Category
2-Ethoxyethyl acetate	111-15-9	Developmental	-	Developmental
, ,		Male Reproductive		·

U.S. State Right-to-Know

Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
2-Ethoxyethyl acetate	X	X	X	X	X

U.S. Department of Transportation

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

16. Other information

Prepared By Health, Safety and Environmental Department

Email: tech@alfa.com www.alfa.com

 Creation Date
 22-Sep-2009

 Revision Date
 23-Feb-2018

 Print Date
 23-Feb-2018

Revision Summary SDS authoring systems update, replaces ChemGes SDS No. 111-15-9.

Disclaimer

The information provided in this 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

End of SDS