

SAFETY DATA SHEET

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

1.1 Product identifiers

- Product name Cellosolve Acetate
- CAS number 111-15-9
- Synonyms 2-Ethoxyethanol acetate 2-Ethoxyethanol, ester with acetic acid 2-Ethoxyethyl acetate

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

Identified uses Laboratory Chemicals

1.3 Details of the supplier of the safety data sheet

Company	Lab Alley, LLC
	12501 Pauls Valley Road
	Austin, Texas 78737
	U.S.A.

Telephone	512-668-9918
Fax	512-886-4008

1.4 Emergency telephone

Emergency Phone #	US & Canada: 1-800-535-5053	INFOTRAC
	International 1-352-323-3500	INFOTRAC

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity - Inhalation (Gases) Category 4 Acute toxicity - Inhalation (Vapors) Category 4 Serious eye damage/eye irritation Category 2B Reproductive toxicity Category 1B Flammable liquids Category 3

2.2 GHS Label elements, including precautionary statements



Signal Word

Pictogram

Danger

Hazard statements Harmful if inhaled. Causes mild skin irritation. Causes eye irritation. May damage fertility or the unborn child. Flammable liquid and vapor.

Precautionary	Prevention:
statements	Obtain special instructions before use.
	Do not handle until all safety precautions have been read and understood.
	Avoid breathing dust/fume/gas/mist/vapors/spray.
	Use only outdoors or in a well-ventilated area.
	Wash face, hands and any exposed skin thoroughly after handling.
	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.
	Do not eat, drink or smoke when using this product.
	Wear protective gloves/protective clothing/eye protection/face protection.
	Response:
	IF exposed or concerned: Get medical advice/attention.
	IN CASE OF FIRE: Use dry chemical, water spray, alcohol-resistant foam or CO2 to extinguish.
	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
	lenses, if present and easy to do. Continue rinsing. Ifeye irritation persists: Get medical advice/attention.
	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing
	Rinse skin with water/shower. If skin irritation occurs: Get medical
	advice/attention.
	IF INHALED: Remove person to fresh air and keep comfortable for breathing
	Storage:
	Store locked up
	Store in a well-ventilated place. Keep cool
	Disposal:
	Dispose of contents/container to an approved waste disposal plant

May be harmful if swallowed. Causes mild skin irritation.

SECTION 3: Composition/information on ingredients

3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
2-Ethoxyethyl Acetate	Cellosolve Acetate	111-15-9	100

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice National Capital Poison Center in the United States can provide assistance if youhave a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

lf inhaled	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
In case of skin contact	Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention if irritation develops. Consult a physician if necessary.
In case of eye contact	Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If symptoms persist, call a physician.
If swallowed	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary.

4.2 Most important symptoms and effects, both acute and delayed

Harmful by inhalation. Causes eye irritation. Mild skin irritation. May damage fertility or the unborn child. May be harmful if swallowed. Albuminuria. Abdominal discomfort, nausea, vomiting, cramping. Acute solvent syndrome (general anesthesia, defatting of the skin/dermatitis, kidney injury, hepatotoxicity, respiratory irritation). Central nervous system depression. Chronic exposure may affect liver, kidneys/urinary system, and blood.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Dry chemical. Carbon dioxide (CO2). Water spray, mist, or foam.

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

5.2 Specific hazards arising from the substance or mixture

Flammable. May be ignited by heat, sparks or flames. Vapor may travel considerable distance to source of ignition and flash back .Vapors may form explosive mixtures with air. Most vapors are heavier than air. They will spread along the ground and collect in low or confined areas (sewers, basements, tanks). Container explosion may occur under fire conditions or when heated. Fire may produce irritating, corrosive and/or toxic gases.

5.3 Special 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.

5.4 Further information

Flash Point54°C (129°F)

Autoignition Temperature 379°C (715°F)

Explosion limits

Upper10%Lower1.70%Sensitivity to Mechanical ImpactSensitivity to Static Discharge

No information available. No information available.

NFPA

Health	Flammability	Instability	Physical hazards
2	2	0	N/A

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use spark-proof tools and explosion-proof equipment. All equipment used when handling the product must be grounded.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas. Do not let this chemical enter the environment.

6.3 Methods and materials for containment and cleaning up

Stop leak if you can do it without risk. Absorb spill with inert material (e.g. vermiculite, dry sand or earth). In case of large spill, dike if needed. Dike far ahead of liquid spill for later disposal. Use appropriate tools to put the spilled material in a suitable chemical waste disposal container. Clean contaminated surface thoroughly.

6.4 Reference to other sections

See section 8 for personal protective equipment. See section 13 for proper diposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Use only in wellventilated areas. Do not breathe vapors or spray mist. Do not ingest. When using do not smoke. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

Hygiene measures

Provide sufficient air exchange and/or exhaust in work rooms. Remove all sources of ignition. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from incompatible materials.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Store at room temperature in the original container. Store away from incompatible materials. Store in a segregated and approved area.

Incompatibilities

Nitrates, Strong oxidizing agents, Alkalis, Strong acids, Strong bases.

SECTION 8: Exposure controls/personal protection

8.1 Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Component	Туре	Value
2-Ethoxyethyl Acetate	TWA	100 ppm 540 mg/m3

US. ACGIH Threshold Limit Values

Component	Туре	Value
2-Ethoxyethyl Acetate	TWA	5 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Component	Туре	Value
2-Ethoxyethyl Acetate	TWA	0.5 ppm 2.7 mg/m3

Biological occupational exposure limits

No information available.

8.2 Exposure controls

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.

Personal protective equipment

Eye/face protection

Goggles or Safety glasses with side-shields.

Skin protection Gloves. Long sleeved clothing.

Body Protection Chemical resistant apron. Long sleeved clothing.

Respiratory protection

Vapor respirator. Be sure to use an approved/certified respirator or equivalent.

Control of environmental exposure

Wash hands before breaks and immediately after handling the product.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State	Liquid
Appearance	Clear to pale yellow
Odor	Ester-like
Odor Threshold	0.6 ppm
рН	No data available
Melting Point/Range	-61°C (-78°F)
Boiling Point/Range	156°C (313°F)
Evaporation Rate	No data available
Flammability (solid)	No data available
Flammability or explosive limit	No data available
Upper	1.70%
Lower	10%
Vapor Pressure	0.267 @ 20°C (kPa)
Vapor Density	4.56
Density	0.975 g/cm3
	Very soluble in Ethanol
Solubility	Very soluble in Ether Soluble in Water
Partition coefficient; n-octanol/water	log Kow 0.42
Autoignition Temp	379°C (715°F)
Decomposition Temp	No data available
Viscosity	No data available
Molecular Formula	C6H12O3
Molecular Weight	132.16 g/mol
VOC Content(%)	No data available

Oxidizing properties

No data available

9.2 Other safety information

No information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Reactive with strong oxidizing agents. Reacts with strong acids giving off Carbon dioxide. Reacts with strong bases. Reacts with nitrates.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous polymerization does not occur.

10.4 Conditions to avoid

Heat, flames and sparks. Ignition sources. Incompatible materials.

10.5 Incompatible materials

Nitrates, Strong oxidizing agents, Alkalis, Strong acids, Strong bases.

10.6 Hazardous decomposition products

Carbon oxides.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product Information, Component Information

Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
2-Ethoxyethyl Acetate	2700 mg/kg Rat >3200 mg/kg Mouse	10000 mg/kg Rabbit 10500 uL/kg Rabbit	12100 mg/m3 (vapor) Rat 8 h

Skin corrosion/irritation

Mild skin irritation.

Serious eye damage/eye irritation

Causes eye irritation.

Respiratory or skin sensitization

No information available.

Germ cell mutagenicity

No information available.

Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
2-Ethoxyethyl Acetate	111-15-	Not listed				

Specific target organ toxicity - single exposure

None known.

Specific target organ toxicity - repeated exposure

None known.

Reproductive toxicity

May cause adverse reproductive effects based on animal data. Category 2: Substances which should be regarded as if they impair fertility inhumans. May decrease fertility in males and females. May cause harm to the unborn child.

Chronic effects

Repeated and prolonged exposure to solvents may cause brain and nervous system damage. Chronic exposure may affect the liver, kidneys, and blood. Chronic exposure may cause central nervous system effects.

11.2 Additional Information

No additional information.

SECTION 12: Ecological information

12.1 Toxicity

Toxic to an aquatic environment.

Freshwater Fish Species Data:

45 - 52 mg/L LC50 Lepomis macrochirus 96 h static 1 41 mg/L LC50 Lepomis macrochirus 96 h flow-through 1 42.2 mg/L LC50 Pimephales promelas 96 h flow-through 1

12.2 Persistence and degradability

No information available.

12.3 Bio accumulative potential

No information available.

12.4 Mobility in soil

No information available.

- **12.5 Results of PBT and vPvB assessment** No information available.
- **12.6 Endocrine disrupting properties** No information available.
- 12.7 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste Disposal Methods

Waste must be disposed of in accordance with Federal, State and Local regulation. Empty containers should be taken for local recycling, recovery or waste disposal. Do not re-use empty containers. Dispose of as unused product.

SECTION 14: Transport information

DOT (US)

UN Number	UN1172
Proper Shipping name	Ethylene glycol monoethyl ether acetate
Hazard Class	3
Packaging Group	III

IMDG

UN Number	UN1172
Proper Shipping name	Ethylene glycol monoethyl ether acetate
Hazard Class	3
Packaging Group	III

ΙΑΤΑ

UN Number	UN1172
Proper Shipping name	Ethylene glycol monoethyl ether acetate
Hazard Class	3
Packaging Group	III

SECTION 15: Regulatory information

US federal regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4) Not listed.

SARA 304 Emergency release notification Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance Not listed.

SARA 311/312 Hazardous

See section 2 for hazard classifications.

SARA 313 (TRI reporting)

1.0% de minimis concentration.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not listed.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not listed.

Safe Drinking Water Act Not listed.

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace Not listed.

US state regulations

US. Massachusetts RTK - Substance List

2-Ethoxyethyl Acetate: Listed.

US. New Jersey Worker and Community Right-to-Know Act

2-Ethoxyethyl Acetate: Listed.

US. Pennsylvania Worker and Community Right-to-Know Law

2-Ethoxyethyl Acetate: Listed.

California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. 2-Ethoxyethyl Acetate: developmental toxicity, male reproductive toxicity.

SECTION 16: Other information

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SECTION 17: Disclaimer

The information provided on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.