

Scientific Documentation

Ethyl Acetate, NF

Not appropriate for regulatory submission.

Please visit www.spectrumchemical.com or contact Tech Services for the most up-to-date information contained in this information package.

Spectrum Chemical Mfg Corp 769 Jersey Avenue New Brunswick, NJ 08901 Phone 732.214.1300





Table of Contents

Product Specification
Certificate of Analysis
Safety Data Sheet (SDS)
Certification of Current Good Manufacturing Practices (cGMP)
Manufacturing Process Flowchart
General Label Information – Sample Label



Specification for Ethyl Acetate, NF (ET105)

Item Number	ET105
Item	Ethyl Acetate, NF
CAS Number	141-78-6
Molecular Formula	$C_4H_8O_2$
Molecular Weight	88.11
MDL Number	
Synonyms	Acetic Acid Ethyl Ester; Acetic Ether

Test	Specification		
	Min	Max	
APPEARANCE			
ASSAY	98.0	102.0 %	
SPECIFIC GRAVITY @ 25°C	0.894	0.898	
ACIDITY		0.10 ml	
NONVOLATILE RESIDUE		0.02 %	
CHROMATOGRAPHIC PURITY:			
ACETALDEHYDE		0.1 %	
1-ETHOXY-2-METHYLPROPANE		0.1 %	
METHYL COMPOUNDS		0.1 %	
OTHER IMPURITIES		0.3 %	
READILY CARBONIZABLE SUBSTANCES	NO DARK ZONE DEVELOPS		
ELEMENTAL IMPURITIES	AS REPORTED		
RESIDUAL SOLVENTS:			
CLASS 1 (solvent) / BENZENE			
CLASS 1 (solvent) / CARBON TETRACHLORIDE	•		
CLASS 1 (solvent) / 1,2-DICHLOROETHANE		5 ppm	
CLASS 1 (solvent) / 1,1-DICHLOROETHENE	•		
CLASS 1 (solvent) / 1,1,1-TRICHLOROETHANE			
CLASS 2 (solvent) / CHLOROFORM			
CLASS 2 (solvent) / HEXANE			
CLASS 2 (solvent) / METHYLENE CHLORIDE	·		

Test	Specification		
	Min	Max	
CLASS 2 (solvent) / TOLUENE			
CLASS 2 (solvent) / TRICHLOROETHENE			
CLASS 3 (solvent) / ACETIC ACID			
CLASS 3 (solvent) / ETHANOL			
CLASS 3 (solvent) / ETHYL ETHER			
CLASS 3 (solvent) / HEPTANE			
CLASS 3 (solvent) / ISOBUTYL ACETATE			
CLASS 3 (solvent) / ISOPROPYL ACETATE			
CLASS 3 (solvent) / 2-METHYL-1-PROPANOL			
CLASS 3 (solvent) / 1-PROPANOL			
CLASS 3 (solvent) / 2-PROPANOL			
CLASS 3 (solvent) / PROPYL ACETATE			
IDENTIFICATION	SPECTRUM MATCHES REFERENCE		
EXPIRATION DATE			
DATE OF MANUFACTURE			
MONOGRAPH EDITION			

Spectrum Chemical Mfg Corp

Corporate Headquarters:West Coast Facility:769 Jersey Ave.14422 S. San Pedro St.New Brunswick, NJ 08901Gardena, CA 90248732.214.1300310.516.8000



Certificate Of Analysis

Item Number	ET105	Lot Number	2ND0106
Item	Ethyl Acetate, NF	CAS Number	141-78-6
Molecular Formula	$C_4H_8O_2$	Molecular Weight	88.11

TECT	SPECIFICATION		DECLUT	
TEST	MIN	MAX	RESULT	
APPEARANCE			CLEAR COLORLESS LIQUID	
ASSAY	98.0	102.0 %	99.9 %	
SPECIFIC GRAVITY @ 25°C	0.894	0.898	0.897	
ACIDITY		0.10 ml	0.00 ml	
NONVOLATILE RESIDUE		0.02 %	0.00 %	
CHROMATOGRAPHIC PURITY:				
ACETALDEHYDE		0.1 %	<0.1 %	
1-ETHOXY-2-METHYLPROPANE		0.1 %	<0.1 %	
METHYL COMPOUNDS		0.1 %	<0.1 %	
OTHER IMPURITIES		0.3 %	<0.3 %	
READILY CARBONIZABLE SUBSTANCES	NO DARK ZONE DEVELOPS		NO DARK ZONE DEVELOPS	
ELEMENTAL IMPURITIES	AS REPORTED		NO ELEMENTAL IMPURITIES PRESENT	
RESIDUAL SOLVENTS:				
CLASS 1 (solvent) / BENZENE			<2 ppm	
CLASS 1 (solvent) / CARBON TETRACHLORIDE			<4 ppm	
CLASS 1 (solvent) / 1,2-DICHLOROETHANE		5 ppm	<5 ppm	
CLASS 1 (solvent) / 1,1-DICHLOROETHENE			<8 ppm	
CLASS 1 (solvent) / 1,1,1- TRICHLOROETHANE	•		<1500 ppm	
CLASS 2 (solvent) / CHLOROFORM			<60 ppm	
CLASS 2 (solvent) / HEXANE			<290 ppm	
CLASS 2 (solvent) / METHYLENE CHLORIDE			<600 ppm	

TEST	SPECIFICATION		DECLUT	
TEST	MIN	MAX	RESULT	
CLASS 2 (solvent) / TOLUENE			<890 ppm	
CLASS 2 (solvent) / TRICHLOROETHENE			<80 ppm	
CLASS 3 (solvent) / ACETIC ACID			<5000 ppm	
CLASS 3 (solvent) / ETHANOL			<5000 ppm	
CLASS 3 (solvent) / ETHYL ETHER			<5000 ppm	
CLASS 3 (solvent) / HEPTANE			<5000 ppm	
CLASS 3 (solvent) / ISOBUTYL ACETATE			<5000 ppm	
CLASS 3 (solvent) / ISOPROPYL ACETATE			<5000 ppm	
CLASS 3 (solvent) / 2-METHYL-1- PROPANOL			<5000 ppm	
CLASS 3 (solvent) / 1-PROPANOL			<5000 ppm	
CLASS 3 (solvent) / 2-PROPANOL			<5000 ppm	
CLASS 3 (solvent) / PROPYL ACETATE			<5000 ppm	
IDENTIFICATION	SPECTRUM MATCHES REFERENCE		SPECTRUM MATCHES REFERENCE	
EXPIRATION DATE			07-DEC-2025	
DATE OF MANUFACTURE			07-DEC-2023	
MONOGRAPH EDITION			NF 2023	

Certificate of Analysis Results Entered By:

CACEVEDO Charmian Acevedo 17-APR-24 11:37:28

Spectrum Chemical Mfg Corp 755 Jersey Avenue New Brunswick 08901 NJ



Certificate of Analysis Results Approved By:

AWILLIAMS Allison Williams 17-APR-24 12:01:26

All pharmaceutical ingredients are tested using current edition of applicable pharmacopeia.

Read and understand label and SDS before handling any chemicals. All Spectrum's chemicals are for manufacturing, processing, repacking or research purposes by experienced personnel only. It is the customer's responsibility to provide adequate hazardous material training and ensure that appropriate Personal Protective Equipment (PPE) is used before handling any chemical.

The Elemental Impurities standards implemented by USP and other Pharmaceutical Compendia reflect a growing understanding of the toxicology of trace levels of elemental impurities that can remain in drug substances originating from either raw materials or manufacturing processes. Identifying and quantifying impurities can be critical to predicting the best possible patient outcomes. Elemental Impurities has been a requirement of all products meeting USP/NF, EP and BP monographs since January 1, 2018. More information can be found in USP sections <232> Elemental Impurities – Limits and <233> Elemental Impurities – Procedures. Data for drug substances furnished by Spectrum Chemical Mfg. Corp can be used to ensure that patient daily exposures by oral administration to the selected elements are not exceeded in the formulation of pharmaceutical products.

SAFETY DATA SHEET SPECTIUM®



Revision date 02-February-2022

Revision Number 2

1. Identification

Product identifier

Product Name ETHYL ACETATE, NF

Other means of identification

Product Code(s) ET105

UN/ID no UN1173

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use or

Restrictions on use No information available

Details of the supplier of the safety data sheet

Supplier Address

Spectrum Chemical Mfg. Corp. 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000

Emergency telephone number

Emergency Telephone Chemtrec 1-800-424-9300

2. Hazard(s) identification

Classification

Serious eye damage/eye irritation	Category 2A
Specific target organ toxicity (single exposure)	Category 3
Flammable liquids	Category 2

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

Danger

Hazard statements

Causes serious eye irritation
May cause respiratory irritation
May cause drowsiness or dizziness
Highly flammable liquid and vapor



Appearance clear Physical state Liquid Odor Ether-like and Fruity

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling

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

Use only outdoors or in a well-ventilated area

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. 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

Wear protective gloves/eye protection/face protection

Keep cool

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

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

IF INHALED: Remove person to fresh air and keep comfortable for breathing

Call a POISON CENTER or doctor if you feel unwell

In case of fire: Use CO2, dry chemical, or foam to extinguish

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed Store locked up.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other information

No information available.

3. Composition/information on ingredients

Substance

Chemical name	CAS No	Weight-%	Trade secret
Ethyl Acetate	141-78-6	100	*

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret.

4. First-aid measures

Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance.

Inhalation Remove to fresh air. IF exposed or concerned: Get medical advice/attention.

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

eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes.

Ingestion Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water.

Never give anything by mouth to an unconscious person. Call a physician.

Self-protection of the first aider Remove all sources of ignition. Ensure that medical personnel are aware of the material(s)

involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid

contact with skin, eyes or clothing.

Most important symptoms and effects, both acute and delayed

Symptoms May cause redness and tearing of the eyes. Burning sensation. Inhalation of high vapor

concentrations may cause symptoms like headache, dizziness, tiredness, nausea and

vomiting.

Indication of any immediate medical attention and special treatment needed

5. Fire-fighting measures

Suitable Extinguishing Media
Large Fire
Dry chemical. Carbon dioxide (CO2). water spray. Alcohol resistant foam.
CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the

chemical

risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Hazardous combustion products Carbon Monoxide, Carbon Dioxide.

Explosion data

Sensitivity to mechanical impact none.

Sensitivity to static discharge yes.

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Evacuate personnel to safe areas. Use personal protective equipment as required. See

section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the

product must be grounded. Do not touch or walk through spilled material.

Other information Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor

suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other

non-combustible material and transfer to containers for later disposal.

Methods for cleaning up

Take precautionary measures against static discharges. Dam up. Soak up with inert

absorbent material. Pick up and transfer to properly labeled containers.

7. Handling and storage

Precautions for safe handling

Advice on safe handling

Use personal protection equipment. Avoid breathing vapors or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. In case of insufficient ventilation, wear suitable respiratory equipment.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations.

8. Exposure controls/personal protection

Control parameters

Exposure Limits

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethyl Acetate	No data available	400 ppm TWA	-
141-78-6		1400 mg/m³ TWA	

Appropriate engineering controls

Engineering controls Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Tight sealing safety goggles.

Hand protection Wear suitable gloves. Impervious gloves.

Skin and body protection Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.

Antistatic boots.

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Do not eat, drink or smoke when using this product. Contaminated work clothing should not

be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state Liquid **Appearance** clear Color Colorless

Ether-like and Fruity Odor No information available Odor threshold

Remarks • Method Property Values

pН no data available None known Melting point / freezing point -83 °C / -117.4 °F None known 77 °C / 170.6 °F Boiling point / boiling range None known Flash point -4.4 °C / 24.1 °F None known **Evaporation rate** 6.2 (butyl acetate = 1) None known None known Flammability (solid, gas) no data available Flammability Limit in Air None known

11% Upper flammability or explosive

limits

2% Lower flammability or explosive

limits

Vapor pressure 10 @ 20°C (kPa) None known Vapor density 3.04 None known Relative density 0.9 None known Soluble in water Water solubility None known Soluble in Ether Solubility(ies) None known

Soluble in hot alcohol Soluble in Acetone Soluble in Benzene

0.73

Partition coefficient None known 426.6 °C / 799.9 °F **Autoignition temperature** None known None known

Decomposition temperature

Kinematic viscosity no data available None known **Dynamic viscosity** No data available None known

Other information

No information available **Explosive properties** No information available **Oxidizing properties** Softening point No information available

Molecular weight 88.11

VOC Content (%) No information available **Liquid Density** No information available No information available **Bulk density**

10. Stability and reactivity

No information available. Reactivity

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions None under normal processing.

Conditions to avoid Heat, flames and sparks.

None known based on information supplied. Incompatible materials

Hazardous decomposition products None known based on information supplied.

11. Toxicological information

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available. May cause irritation of

respiratory tract. May cause drowsiness or dizziness.

Eye contact Specific test data for the substance or mixture is not available. Causes serious eye irritation.

(based on components). May cause redness, itching, and pain.

Skin contact Specific test data for the substance or mixture is not available. May cause irritation.

Prolonged contact may cause redness and irritation.

Ingestion Specific test data for the substance or mixture is not available. Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms May cause redness and tearing of the eyes. Inhalation of high vapor concentrations may

cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Acute toxicity

Numerical measures of toxicity

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ethyl Acetate	= 5620 mg/kg (Rat)	> 18000 mg/kg (Rabbit) > 20	= 4000 ppm (Rat) 4 h
141-78-6		mL/kg(Rabbit)	

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

Skin corrosion/irritation May cause skin irritation.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye irritation.

Respiratory or skin sensitization Germ cell mutagenicity No information available. No information available.

Reproductive toxicity No information available.

STOT - repeated exposure

May cause respiratory irritation. May cause drowsiness or dizziness.

STOT - repeated exposure Target organ effects

No information available. respiratory system, Eyes, Skin.

Aspiration hazard No information available.

Other adverse effects No information available.

Interactive effects No information available.

12. Ecological information

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Ethyl Acetate	EC50: =3300mg/L (48h,	LC50: 220 - 250mg/L	-	EC50: =560mg/L (48h,
141-78-6	Desmodesmus	(96h, Pimephales		Daphnia magna)
	subspicatus)	promelas) LC50: 352 -		-
		500mg/L (96h,		
		Oncorhynchus mykiss)		
		LC50: =484mg/L (96h,		
		Oncorhynchus mykiss)		

Persistence and degradability No inform

No information available.

Bioaccumulation

Inherently biodegradable.

Component Information

Chemical name	Partition coefficient
Ethyl Acetate	0.6
141-78-6	

Other adverse effects No information available.

13. Disposal considerations

Waste treatment methods

Waste from residues/unused

products

Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Empty containers pose a potential fire and explosion hazard. Do not cut, puncture of weld

containers.

14. Transport information

DOT

UN/ID no UN1173
Proper Shipping Name: Ethyl acetate

Hazard class 3
Packing group:

Special Provisions IB2, T4, TP1

Marine Pollutant Severe Marine Pollutant

Description: UN1173, Ethyl acetate, 3, II

129

Emergency Response Guide

Number

<u>TDG</u>

UN-No: UN1173
Proper Shipping Name: Ethyl acetate

Hazard class 3
Packing Group: ||

Description: UN1173, Ethyl acetate, 3, II

MEX

UN-No UN1173
Proper Shipping Name Ethyl acetate

Hazard class 3
Packing Group ||

Description UN1173, Ethyl acetate, 3, II

ICAO (air)

UN-No: UN1173
Proper Shipping Name: Ethyl acetate

Hazard class 3
Packing Group:

Description: UN1173, Ethyl acetate, 3, II

<u>IATA</u>

UN number UN1173
Proper Shipping Name: Ethyl acetate

Transport hazard class(es) 3
Packing group | |

Description: UN1173, Ethyl acetate, 3, II

IMDG

UN number UN1173
Proper shipping name Ethyl acetate

Transport hazard class(es)

Packing group

EmS-No

Marine pollutant

3

F-E, S-D

NP1

Description UN1173, Ethyl acetate, 3, II, (-4.4°C c.c.)

RID

UN number UN1173
Proper Shipping Name: Ethyl acetate

Transport hazard class(es) 3
Packing group || Classification code || F1

Description: UN1173, Ethyl acetate, 3, II

Labels 3

ADR

UN number 1173

Proper Shipping Name: Ethyl acetate

Transport hazard class(es)

Packing group

Classification code

Tunnel restriction code

(D/E)

Description: 1173, Ethyl acetate, 3, II, (D/E)

Labels 3

<u>ADN</u>

UN/ID No UN1173
Proper shipping name Ethyl acetate

Transport hazard class(es) 3
Packing Group || Classification code || F1

Description UN1173, Ethyl acetate, 3, II

Hazard label(s) 3
Limited quantity (LQ) 1 L
ventilation VE01
Equipment Requirements PP, EX, A

15. Regulatory information

International Inventories

TSCA Complies

DSL/NDSL Complies **EINECS/ELINCS** Complies

ENCS This product complies with ENCS: This product complies with China:

KECL Complies PICCS Complies

AICS All the constituents of this material are listed on the Australian Inventory of Chemical

Substances (AICS).

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Ethyl Acetate	5000 lb final RQ	-
141-78-6	2270 kg final RQ	

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Ethyl Acetate	0841	Present	Environmental hazard
141-78-6			

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information

NFPA

Health hazards 2 Flammability 3

Instability 0

Physical and chemical properties -

HMIS

Health hazards 2 Flammability 3 Physical hazards 0 Personal protection X

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

Revision date 02-February-2022 Revision Note 02-February-2022 No information available.

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 Safety Data Sheet



Certification of Compliance with current Good Manufacturing Practices

Dear Valued Customer:

Spectrum Chemical Mfg Corp certifies that the following product(s) is produced, processed, packaged and held in compliance with current Good Manufacturing Practices (cGMP) in accordance with the applicable parts of 21 CFR, parts 210 and 211 of the Code of Federal Regulations.

Catalog Number	Product Name
ET105	Ethyl Acetate, NF

Spectrum is an FDA registered and inspected Drug Establishment. Our United States Food and Drug Administration (USFDA) Registration numbers are as follows:

Spectrum-Gardena, CA: 2020632 Spectrum-New Brunswick, NJ: 2246824

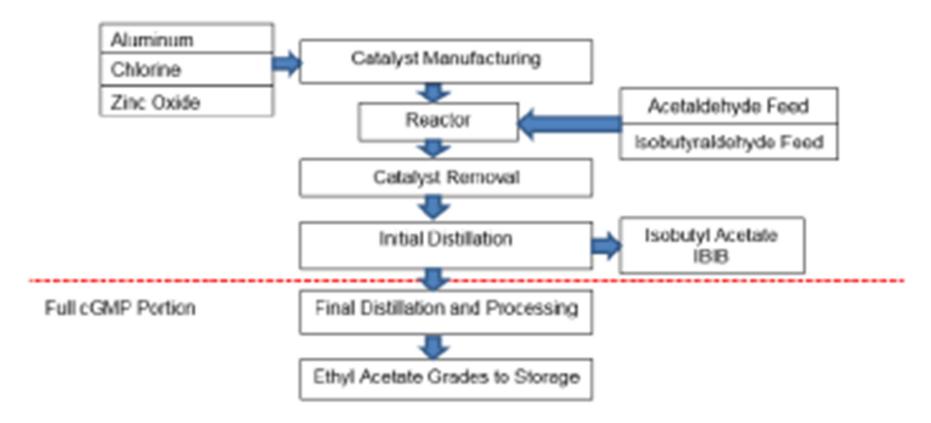
Thank you for your interest in Spectrum products. If we may be of further assistance, please feel free to contact the Quality Assurance department at 310-516-8000 or via email at qualityassurance@spectrumchemical.com

Sincerely,
Quality Assurance
Spectrum Chemical Mfg. Corp.

This document has been produced electronically and is valid without a signature.



Manufacturing Process Flowchart - Ethyl Acetate, NF (Catalog No. ET105)





Label Information

The Spectrum label presents technical and safety information in an easily understood format. Our technical specialists stay abreast of the latest requirements of the Globally Harmonized System for Classification and Labelling of Chemicals (GHS), as well as the Occupational Safety and Health Administration (OSHA), the Food and Drug Administration (FDA) and other government regulatory agencies in order to ensure compliance, accuracy and concise hazard communication. Below you will find a typical label example for this catalog item.

DANGER

0000-00-00



 Highly flammable liquid and vapor • Causes serious eye irritation • May cause respiratory irritation • May cause drowsiness or dizziness.

• Keep away from heat, sparks, open flames, hot surfaces • No smoking • Ground container and receiving equipment • Use explosion-proof equipment • Use only non-sparking tools • Take precautionary measures against static discharge • Wear protective gloves, eye protection, face protection • Avoid breathing mist or vapors • Use only outdoors or in a well-ventilated area • Wash face, hands and any exposed skin thoroughly after handling. FIRST AID: IF IN EYES: Rinse cautiously with water for

FIRST AID: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IN CASE OF FIRE: Use dry chemical, water spray, alcohol-resistant foam or CO₂ to extinguish.

KEEP FROM CHILDREN

ET105

SIZ SY

Ethyl Acetate

(Acetic Ether) NF

CAS 141-78-6

CAUTION: For manufacturing, processing or repacking. Not intended for use in preparing injectable dosage forms. Read and understand the label and Safety Data Sheet (SDS) prior to use.

DOT: UN1173, Ethyl acetate, 3, PG II

Chemical Emergency: (800)424-9300 www.SpectrumChemical.com $C_4 H_8 O_2$

F.W. 88.11

Assay	. 98.0-102.0%
Specific Gravity @ 25°C	
Acidity	To pass test
MAXIMUM LIMITS	•
Nonvolatile Residue	0.02%
Chromatographic Purity:	
Acetaldehyde	0.1%
1-Ethoxy-2-Methylpropane	0.1%
Methyl Compounds	0.1%
Other Impurities	To pass test
Readily Carbonizable Substances	To pass test
Elemental Impurities	As reported
Residual Solvents	To pass test

WARNING: Cancer-www.P65Warnings.ca.gov

R 14/I11GHS

Lot No. XQ####

Spectrum Chemical Mfg Corp

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