

Safety Data Sheet
Ethyl Alcohol Dup.Fluid #5

SECTION I - IDENTIFICATION



Duda Energy LLC.
1112 Brooks St.
Decatur, AL 35601
256.340.4866

Chemtel:..... 800.255.3924

PRODUCT NUMBER: 10613
PRODUCT NAME: Ethyl Alcohol Dup.Fluid #5
CHEMICAL FAMILY: Solvent
CAS NUMBER: Multiple
DATE PREPARED: 3/8/2016
REVISION NUMBER: 1.2

SECTION II - HAZARDOUS IDENTIFICATION

GHS CLASSIFICATION:

Classification

Flammable Liquids	Category 2
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2B
Specific target organ toxicity, single exposure, Respiratory Tract	Category 3

DANGER!

GHS LABEL:



Hazard Statements

H225	Highly flammable gas and vapor
H315	Causes skin irritation
H320	Causes eye irritation
H335	May cause respiratory irritation

Safety Data Sheet

Ethyl Alcohol Dup.Fluid #5

Precautionary Statements

P210	Keep away from heat/sparks/open flames/hot surface - No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/light/equipment, etc.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated are.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+352	IF ON SKIN: Wash with soap and water.
P303+361+353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so - continue rinsing.
P312	Call a POISON CENTER or a doctor/physician if you feel unwell.
P332+313	If skin irritation occurs: get medical advice/attention.
P337+313	If eye irritation persists get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.
P370+378	In case of fire: Use dry sand, dry chemical, or alcohol-resistant foam for extinction.
P403+233	Store in a well ventilated place. Keep container tightly closed.
P403+235	Store in a well ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to an approved waste disposal plant.

SECTION III - COMPOSITION/INFORMATION ON INGREDIENTS

The precise composition of this product is proprietary information. In the event of a medical emergency, a complete disclosure will be provided to medical personnel.

Component Name	CAS #	Component%	OSHA PEL	ACGIH TLV
Ethyl Alcohol	64-17-5	> 89%	1000 ppm	1000 ppm
Acetic Acid Propyl Ester	109-60-4	< 6%	200 ppm	200 ppm
Isopropyl Alcohol	67-63-0	< 5%	400 ppm	200ppm (TWA)

Safety Data Sheet
Ethyl Alcohol Dup.Fluid #5

SECTION IV - FIRST AID MEASURES

Contact with eyes: Flush with water for 15 minutes. Seek immediate medical attention.

Skin contact: Wash exposed areas with water and mild soap. Remove contaminated clothing immediately and launder before reuse. If irritations persist, seek immediate medical attention.

Inhalation: Remove victim to fresh air. Administer oxygen or artificial respiration if breathing is affected or stopped. Seek immediate medical attention.

Ingestion: If swallowed. Do not induce vomiting. Seek immediate medical attention.

SECTION V - FIREFIGHTING MEASURES

Suitable Extinguishing Media: Water fog, foam, CO₂, dry chemical.

Special Fire Fighting Procedures Use self-contained breathing apparatus and full bunker gear in fire areas. Evacuate all unprotected personnel from area. Keep containers cool with water fog to minimize swelling taking care not to spread flames with water used for cooling.

Unusual Fire Fighting Hazards: Product is flammable and may be ignited by heat, sparks, flames or other sources of ignition (e.g., static electricity, pilot lights or mechanical/electrical equipment). Vapors are heavier than air and may accumulate in low areas. Vapors may travel considerable distance to a source of ignition where they can ignite, flashback or explode. May create vapor/air explosion hazard indoors, outdoors or in sewers. If container is not properly cooled, it can explode in the heat of a fire.

SECTION VI - ACCIDENTAL RELEASE MEASURES

Personal Precautions: Keep all sources of ignition and hot metal surfaces away from spill or release.
Evacuate all unprotected personnel from the area.

Environmental Precautions: Prevent liquid from entering drains, sewers or waterways.
Contain spill if it can be done with minimal risk.
Notify proper authorities.

Methods for Cleaning Up: Use foam on spills to minimize vapors.
Using only non-sparking tools and explosion proof equipment, collect spill on absorbent material and put into approved container.

Safety Data Sheet
Ethyl Alcohol Dup.Fluid #5

SECTION VII - HANDLING AND STORAGE

Handling and Storage:

- NFPA Class I storage.
- Vent container carefully before opening.
- Bond and ground all equipment when transferring from one vessel to another. The use of explosion-proof equipment is recommended.
- "Empty" containers retain residue and/or vapor and may be dangerous. Do not cut, weld, braze solder, drill, grind or expose such containers to heat, flames, sparks, or other ignition sources.
- Keep containers tightly closed when not in use.
- Avoid prolonged breathing of mist or vapor. Wash thoroughly after handling.

SECTION VIII - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

EXPOSURE LIMITS:

Component Name	CAS #	OSHA PEL	ACGIH TLV
Isopropyl Alcohol	67-63-0	400 ppm	200ppm (TWA)
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm
Acetic Acid Propyl Ester	109-60-4	200 ppm	200 ppm

Engineering Controls: Adequate local or mechanical to reduce vapor or mist to below the PEL or TLV.

Monitoring: Follow accepted work practices for handling a flammable material.
Do not eat, drink or smoke in areas where this chemical is used or stored.
Have eye wash stations and safety showers readily available.

Personal Protective Equipment (PPE)

Eye Protection: Goggles or approved OSHA device with side shields; do not wear contact lenses when handling this product.

Skin Protection: Impervious solvent resistant gloves.
Impervious apron and work boots recommend where splashing may occur.

Respiratory Protection: Use the proper respirator in areas where the chemical exposure is unknown or above the OSHA PEL or ACGIH TLV.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Safety Data Sheet
Ethyl Alcohol Dup.Fluid #5

Appearance	Clear, Colorless Liquid
Odor	Alcohol Odor
pH@25°C	-
Melting/Freezing Point	-
Flashpoint	55°F, TCC
Specific Gravity	0.79 (6.58#/gal) @25°C
Solubility	Complete
Auto-Ignition Temperature	-
Decomposition Temperature	-
VOC Content	100% 6.58#/gal
Odor Threshold	-
Boiling Range	163-217°F
Evaporation Point	2 (Butyl Acetate=1)
Flammable Limits - Upper	18.1%
Flammable Limits - Lower	2.1%
Vapor Pressure	42mmHg @ 20°C
Vapor Density (Air=1)	1.6 (Air=1)
Viscosity	-

SECTION X - STABILITY AND REACTIVITY

Stability: Stable

Conditions to Avoid: Extreme heat and ignition sources.

Hazardous Decomposition/Byproducts: CO, CO₂, and various hydrocarbons under combustion conditions.

Hazardous Polymerization: Will not occur.

Polymerization Conditions to Avoid: None

Safety Data Sheet
Ethyl Alcohol Dup.Fluid #5

SECTION XI - TOXICOLOGICAL INFORMATION

Likely Route of Exposure: Contact and inhalation; ingestion possible.

Inhalation: May cause irritation to the upper respiratory tract and CNS depression.
Low to moderate degree of toxicity by inhalation.

Eye Contact: Causes eye irritation including stinging, watering and redness which may result in corneal injury.

Skin Contact: Contact may cause mild skin irritation including redness, burning and drying/cracking of the skin.
No harmful effects from skin adsorption are expected.

Ingestion: Aspiration hazard. Can enter the lungs during swallowing or vomiting and cause chemical pneumonia and edema.
Moderate to high degree of toxicity by ingestion. May be harmful or fatal if swallowed.

Toxicity:

Component Name	LD50	LC50
Acetic Acid Propyl Ester	Oral - Rat - 8,700 mg/kg; Dermal - Rabbit - 17,800 mg/kg	Inhalation - Rat - 4 h/32 mg/l
Ethyl Alcohol	Oral - Rat - 7,060 mg/kg	Inhalation - Rat - 10 h - 20000 ppm
2-Propanol	Oral - Rat - 5,045 mg/kg - Dermal - Rabbit - 12,800 mg/kg	Inhalation - Rat - 8 h - 16000 ppm
Isopropyl Alcohol	Oral - Rat - 5,045 mg/kg - Dermal - Rabbit - 12,800 mg/kg	Inhalation - Rat - 8 h - 16000 ppm

Reproductive Effects	Teratogenicity	Mutagenicity	Embryotoxicity	Sensitization to Product	Synergistic Products
Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

SECTION XII - ECOLOGICAL INFORMATION

Ecotoxicity: Information not available.

Mobility: Information not available.

Degradability: Information not available.

BioAccumulation: Information not available.

Safety Data Sheet
Ethyl Alcohol Dup.Fluid #5

SECTION XIII - WASTE DISPOSAL CONSIDERATIONS

Follow Federal, State and local regulations.

SECTION XIV - TRANSPORT INFORMATION

DOT SHIPPING INFORMATION

Proper Shipping Name: Alcohols, N.O.S.
Contains: Ethyl Alcohol Dup.Fluid #5
Hazard Class and Label: 3
Identification Number: NA 1987
Packaging Group: II

SECTION XV - REGULATORY INFORMATION

TSCA STATUS:..... The components of this product are listed on the TSCA Inventory

SARA TITLE III SECTION 302/304 EXTREMELY HAZARDOUS SUBSTANCE:

No chemicals in this material are subject to the reporting requirements.

SARA TITLE III SECTION 311/312 HAZARD CATEGORIZATION:

Acute	Chronic	Fire	Pressure	Reactive
X	X	X		

SARA TITLE III SECTION 313 SUPPLIER INFORMATION:

No chemicals in this material are subject to the reporting requirements.

CERCLA SECTION 102(a) HAZARDOUS SUBSTANCE:

No chemicals in this material are subject to the reporting requirements.

SECTION XVI - OTHER INFORMATION

HMIS Health: 2
HMIS Flammability: 3
HMIS Reactivity: 0

Additional:

Safety Data Sheet
Ethyl Alcohol Dup.Fluid #5

Specification Information

Department issuing data sheet: Compliance Department

Email address: technical@dudadiesel.com

Training necessary: Training is required per the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard 29 CFR 1910.1200.

Disclaimer:

The information provided in this safety data sheet is correct to the best of Duda Energy LLC's 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 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. This safety datasheet only contains information relating to safety and does not replace any product information or product specification. Please note, the content may be change, corrected, or deleted at any time without notice, and may not always necessarily reflect the most current data. Duda Energy LLC. will assume no responsibility for any trouble or failure caused by the errors in the information provide, nor any damage associated with the usage of the information.