



7445 Chavenelle Road ■ Dubuque, IA 52002  
Tele: (563) 690-0484 ■ 1-800-253-4942  
E-Mail: [info@ibisci.com](mailto:info@ibisci.com) ■ Web: [www.ibisci.com](http://www.ibisci.com)

Issuing Date: 08-Apr-1998

Revision Date: 6-July-2018

Rev. 7

## 1. IDENTIFICATION OF THE SUBSTANCE/ MIXTURE AND THE COMPANY/UNDERTAKING

**Product Name:** Ethanol  
**Product Code:** IB15720, IB15721, & IB15724  
**Recommend Use:** For further manufacturing use only  
Not for human or animal drug use  
**Synonyms:** ABSOLUTE ETHANOL \* AETHANOL (GERMAN) \* AETHYLALKOHOL (GERMAN) \* ALCOHOL \* ALCOHOLS, N.O.S. (UN1987)(DOT) \* ALCOHOL, ANHYDROUS \* ALCOHOL DEHYDRATED \* ALCOOL ETHYLIQUE (FRENCH) \* ALCOOL ETILICO (ITALIAN) \* ALCOHOLS, TOXIC, N.O.S. (UN1986)(DOT) \* ALGRAIN \* ALKOHOL (GERMAN) \* ALKOHOLU ETYLOWEGO (POLISH) \* ANHYDROL \* COLOGNE SPIRIT \* ETANOLO (ITALIAN) \* ETHANOL (ACGIH:DOT:OSHA) \* ETHANOL SOLUTIONS (UN1170)(DOT) \* ETHYL ALCOHOL (DOT:OSHA) \* ETHYL ALCOHOL ANHYDROUS \* ETHYL ALCOHOL SOLUTIONS (UN1170)(DOT) \* ETHYL HYDRATE \* ETHYL HYDROXIDE \* ETYLOWY ALKOHOL (POLISH) \* FERMENTATION ALCOHOL \* GRAIN ALCOHOL \* JAYSOL S \* METHYLCARBINOL \* MOLASSES ALCOHOL \* NCI-C03134 \* POTATO ALCOHOL \* SD ALCOHOL 23-HYDROGEN \* SPIRITS OF WINE \* SPIRIT \* TECSOL \* UN1170(DOT) \* UN1986(DOT) \* UN1987(DOT) \*

**Company:** IBI SCIENTIFIC  
7445 Chavenelle Road  
Dubuque, IA 52002

**Emergency Tele. Number:** 3E Company (Acct# 9027) 1-800-451-8346 / (001) 760-602-8703  
**Company Tele. Number:** 1-800-253-4942 / (001) 563-690-0484  
**E-Mail Address:** [info@ibisci.com](mailto:info@ibisci.com)

## 2. HAZARDOUS IDENTIFICATION

### GHS – Classification

**Classification:** Flammable Liquid 2 Specific Target Organ Toxicity (Single) 1 Acute Toxicity Oral 3  
Acute Toxicity Inhalation 3 Acute Toxicity Dermal 3  
**Signal Word:** Danger



**Hazard Statements:** H225-Highly flammable liquid and vapor \* H331-Toxic if inhaled \* H301-Toxic if swallowed \* H311-Toxic in contact with skin \* H371-May cause damage to organs (acute)

**Precautionary Statements:** P210-Keep away from heat/sparks/open flames/hot surfaces. No smoking \* P280-Wear protective gloves/protective clothing/eye protection/face protection \* P302+P352-IF ON SKIN: Wash with plenty of soap and water \* P304+P340-IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing \* P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

<b>Chemical Name:</b>	Ethanol	Methyl alcohol
<b>EC No.:</b>	EEC No. 200-578-6	EEC No. 200-659-6
<b>REACH Reg. No.:</b>	Not Available	Not Available
<b>CAS No.:</b>	64-17-5	67-56-1
<b>Weight %:</b>	95 – 100	0 - 7
<b>Classification:</b>	F; R11	F; R11; T; R23/24/25-39/23/24/25

**4. FIRST AID MEASURES**

**Eye Contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.  
**Skin Contact:** Wash off immediately with soap and plenty of water, removing all contaminated clothes and shoes.  
**Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.  
**Ingestion:** Clean mouth with water and afterwards drink plenty of water.  
**Notes to Physician:** Treat symptomatically.

**5. FIRE FIGHTING MEASURES**

**Flammable Properties:** Flammable liquid  
**Flash Point:** 13°C / 55°F  
**Suitable Extinguishing Media:** Use water spray to cool fire-exposed containers  
 Dry chemical, CO<sub>2</sub>, appropriate foam  
**Hazardous Combustion Products:** Carbon oxides  
**Explosion Data**  
 Sensitivity to Mechanical Impact: Not sensitive  
 Sensitivity to Static Discharge: Not sensitive  
**Protective Equip. & Precautions for Firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equiv.) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:** Avoid contact with skin, eyes, and clothing. Use personal protective equipment. Ensure adequate ventilation.  
**Methods for Containment:** Prevent further leakage or spillage, if safe to do so.  
**Methods for Cleaning Up:** Absorb on sand or vermiculite and place in closed containers for disposal. Use non-sparking tools and equipment. Ventilate area and wash spill site after material pickup is complete.

**7. HANDLING AND STORAGE**

**Handling:** Handle in accordance with good industrial hygiene and safety practice. Keep away from heat, sparks, and open flames.

**Storage:** Keep container tightly closed in a dry, cool, and well-ventilated place. Keep away from heat, sparks, and open flames.

**Incompatible Products:** Oxidizing agents, Acids, Anhydrides, Halogens, Aluminum.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Chemical Name:** Ethanol - #64-17-5  
 ACGIH TLV: -  
 OSHA PEL: TWA: 1000ppm \* TWA: 1900mg/m<sup>3</sup> \* (vacated) TWA: 1000ppm \* (vacated) TWA: 1900mg/m<sup>3</sup>  
 NIOSH IDLH: IDLH: 3300ppm 10% LEL\* TWA: 1000ppm \* TWA: 1900mg/m<sup>3</sup>

**Chemical Name:** Methyl alcohol - #67-56-1  
 ACGIH TLV: = 250ppm STEL \* TWA: 200ppm  
 OSHA PEL: TWA: 200ppm \* TWA: 260mg/m<sup>3</sup> \* (vacated) TWA: 200ppm \* (vacated) TWA: 260mg/m<sup>3</sup> \* (vacated) TWA: 250ppm \* (vacated) TWA: 325mg/m<sup>3</sup> \* Skin  
 NIOSH IDLH: IDLH: 6000ppm \* TWA: 200ppm \* TWA: 260mg/m<sup>3</sup> \* STEL: 325mg/m<sup>3</sup> \* STEL: 250ppm

**Engineering Measures:** Showers, Eyewash Stations, Ventilation Systems

**Personal Protective Equipment**

Eye/Face Protection: Tight fitting safety goggles.

Skin & Body Protection: Wear protective gloves/clothing.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

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

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** Clear, colorless liquid

**Odor:** Mild, rather pleasant, like wine or whiskey

**Odor Threshold:** No information available

**Decomposition Temp. °C:** No information available

**Freezing Point:** No information available

**Initial Boiling Point:** No information available

**Physical State:** Liquid

**pH:** No data available

**Flash Point:** 13°C / 55°F

**Flammable Properties:** Flammable liquid

**Autoignition Temp. °C:** 421°C / 789°F

**Boiling Point/Range:** 75°C / 167°F

**Melting Point/Range:** -130°C

**Flammability Limits (Air):** Upper-No data available \* Lower-No data available

**Explosion Limits:** Upper-19% \* Lower-4.3%

**Explosive Properties:** No information available

**Oxidizing Properties:** No information available

**Evaporation Rate:** No information available

**MMHG @ 37.8°C:** No data available

**Vapor Density:** No data available

**Specific Gravity:** 0.7964 Max.

**Density:** 1.59

**Solubility:** Miscible  
**Partition Coefficient (n-octanol/water):** No data available  
**Viscosity:** No information available

## 10. STABILITY AND REACTIVITY

**Stability:** Stable under recommended storage conditions  
**Incompatible Products:** Oxidizing agents, Peroxides, Acids, Anhydrides, Acid chlorides, Alkali metals, Ammonia  
**Conditions to Avoid:** Keep away from heat, sparks, and open flames  
**Hazardous Decomposition Products:** Carbon oxides  
**Hazardous Polymerization:** Hazardous polymerization does not occur.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

Product Information: Irritating to eye, skin, and respiratory system. Flammable liquid. Harmful if swallowed, inhaled, or absorbed.

Chemical Name:	<u>Ethanol</u>	<u>Methyl alcohol</u>
LD50 Oral:	7060mg/kg (Rat)	5628mg/kg (Rat)
LD50 Dermal:	-	15800mg/kg (Rabbit)
LC50 Inhalation:	-	64000ppm (Rat) 4h * 83.2mg/L (Rat) 4h

### Chronic Toxicity

Chronic Toxicity: Prolonged skin contact may defat the skin and produce dermatitis.  
 Chemical Name: Ethanol  
 ACGIH: -  
 IARC: Group 1  
 NTP: Known  
 OSHA: X

**Target Organ Effects:** Nerves, Eyes, Kidneys, Heart, Cardiovascular system, Gastrointestinal tract (GI)

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity:

Harmful to aquatic organisms

**Chemical Name:** Ethanol

Toxicity to Algae: -  
 Toxicity to Fish: LC50 = 12900mg/L Oncorhynchus mykiss (96h)  
 LC50 = 14.2mg/L Pimephales promelas (96h)

Microtox  
 EC50 = 34634mg/L (30min)  
 EC50 = 35470mg/L (5min)

Daphnia Magna (Water Flea):  
 EC50 = 10800mg/L (24h)  
 EC50 = 9268mg/L (48h)

Log Pow -0.32

**Chemical Name:** Methyl alcohol

Toxicity to Algae: -  
 Toxicity to Fish: LC50 = 13200mg/L Oncorhynchus mykiss (96h)  
 LC50 = 14.2mg/L Pimephales promelas (96h)

Microtox  
 EC50 = 39000mg/L (25min)  
 EC50 = 40000mg/L (15min)  
 EC50 = 43000mg/L (5min)

Daphnia Magna (Water Flea): -  
 Log Pow -0.77

**13. DISPOSAL CONSIDERATIONS**

**Water Disposal Method:** Dispose of material in accordance with all federal, state, and local regulations.  
**Contaminated Packaging:** Dispose of in accordance with all federal, state, and local regulations.

**14. TRANSPORT INFORMATION**

**IATA**

UN#	UN1170
Proper Shipping Name	ETHANOL
Hazardous Class	3
Packing Group	II

**US DOT**

UN#	UN1170
Proper Shipping Name	ETHANOL
Hazardous Class	3
Packing Group	II

**15. TOXICOLOGICAL INFORMATION**

**REACH Title VII Restrictions**

	No information available	
Chemical Name:	<u>Ethanol</u>	<u>Methyl Alcohol</u>
Dangerous Substances:	X	X
Organic Solvents:	Not applicable	Class 2
Harmful Substances Whose Names are to be indicated on the Label:	Not applicable	X
Pollution Release and Transfer Registry (Class II):	Not applicable	Not applicable
Pollution Release and Transfer Registry (Class I):	Not applicable	Not applicable
Poison and Deleterious Substances Control Law:	Not applicable	Deleterious
ISHA – Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying:	Not applicable	Not applicable
ISHA – Harmful Substances Requiring Permission:	Not applicable	Not applicable
Toxic Chemical Classification Listing (TCCL):	Not applicable	97-1-80, 85% or more in mixtures
Toxic Release Inventory (TRI) – Group I:	Not applicable	Not applicable
Toxic Release Inventory (TRI) – Group II:	Not applicable	>=1.0%

**International Inventories**

TSCA:	Complies
DSL:	Complies
EINECS/ELINCS:	Complies
ENCS:	Complies
IECSC:	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

**U.S. Federal Regulations**

**SARA 313**

Section 313 of Title III of the superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical/chemicals which are subject to the reporting requirements of the Act & Title 40 of the Code of Federal Regulations, part 372.

Chemical Name:	Methyl alcohol - #67-56-1
Weight (%):	0 - 7
SARA 313 – Threshold (%):	1.0

**SARA 311/312 Hazard Categories**

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

**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).

**Clean Air Act**                              This product contains the following substances which are listed hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act.

Chemical Name:	Methyl alcohol - #67-56-1
Weight (%):	0 - 7
HAPS data:	Present
VOC Chemicals:	Group IV
Class 1 Ozone Depletors:	-
Class 2 Ozone Depletors:	-

**CERCLA**

Chemical Name:	Methyl alcohol - #67-56-1
Hazardous Substances RQs	5000lbs
Extremely Hazardous Sub. RQs:	-

**U.S. State Regulations**

**California Proposition 65**                      This product contains the following Proposition 65 chemicals.

Chemical Name:	Ethanol - #64-17-5
California Prop. 65:	Developmental

<b>State</b>	<u>Ethanol</u>	<u>Methyl alcohol</u>
Massachusetts	X	X
New Jersey	X	X
Pennsylvania	X	X
Illinois	-	X
Rhode Island	X	X

**International Regulations**

**Mexico**

Chemical Name:	Ethanol	Methyl alcohol
Carcinogen Status:	-	-
Exposure Limits:	Mexico: TWA = 1000ppm Mexico: TWA = 1900mg/m <sup>3</sup>	Mexico: TWA = 200ppm Mexico: TWA = 260mg/m <sup>3</sup> Mexico: STEL = 250ppm Mexico: STEL = 310mg/m <sup>3</sup>

**Canada**

**WHMIS Hazard Class**

B2 – Flammable liquid  
D1B – Toxic materials



Chemical Name: Methyl alcohol  
NPRI: X

**16. OTHER INFORMATION**

**Issuing Date:** 08-Apr-1998  
**Revision Date:** 6-July-2018  
**Revision Note:** Updated address and logo  
**Recommended Restrictions:** No information available  
**Disclaimer:** The information provided on this SDS 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 test.

**End of Safety Data Sheet**