

## Ethyl Alcohol SDA-3A 190 Proof

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Ethyl Alcohol SDA-3A 190 Proof

**Synonyms/Generic Names:** None

**Product Number:** 2021

**Product Use:** Industrial, Manufacturing or Laboratory use

**Manufacturer:** Columbus Chemical Industries, Inc.  
N4335 Temkin Rd.  
Columbus, WI. 53925

**For More Information:** 920-623-2140 (Monday-Friday 8:00-4:30)  
[www.columbuschemical.com](http://www.columbuschemical.com)

**In Case of Emergency Call:** CHEMTREC - 800-424-9300 or 703-527-3887 (24 Hours/Day, 7 Days/Week)

### 2. HAZARDS IDENTIFICATION

**Hazard Not Otherwise Classified (HNOC):** None

**Target Organs:** Nerves, Liver, Heart

**Signal Words:** Danger

**Pictograms**



**GHS Classification:**

Flammable Liquids	Category 2
Acute Toxicity: Oral	Category 4
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/ Eye Irritation	Category 2A
Specific target organ toxicity-single exposure	Category 1

**GHS Label Elements, including precautionary statements:**

**Hazard Statements:**

H225	Highly flammable liquid and vapor
H315+H320	Causes skin and eye irritation
H335	May cause respiratory irritation
H302	Harmful if swallowed
H371	Causes damage to organs

**Precautionary Statements:**

P210	Keep away from heat/sparks/open flames/hot surfaces.- No smoking.
P233	Keep container tightly closed.
P240	Ground/Bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P280	Wear protective gloves/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P301+P312+P330	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
P307+P311	IF exposed: Call a POISON CENTER or doctor/ physician.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container to an approved waste disposal plant.
P270	Do not eat, drink or smoke when using this product.

**Potential Health Effects**

<b>Eyes</b>	Causes eye irritation
<b>Inhalation</b>	May be harmful if inhaled. Causes respiratory tract irritation.
<b>Skin</b>	Harmful if absorbed through skin. Causes skin irritation.
<b>Ingestion</b>	Harmful if swallowed

**NFPA Ratings**

<b>Health</b>	2
<b>Flammability</b>	3
<b>Reactivity</b>	0
<b>Specific hazard</b>	Not Available

**HMIS Ratings**

<b>Health</b>	2
<b>Fire</b>	3
<b>Reactivity</b>	0

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component	Weight %	CAS #	EINECS# / ELINCS#	Formula	Molecular Weight
Ethyl Alcohol	80-100	64-17-5	200-578-6	C <sub>2</sub> H <sub>5</sub> OH	46.07 g/mol
Methyl Alcohol	2-5	67-56-1	200-659-6	CH <sub>4</sub> O	32.04 g/mol

**4. FIRST-AID MEASURES**

<b>Eyes</b>	Rinse with plenty of water for at least 15 minutes and seek medical attention immediately.
<b>Inhalation</b>	Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately.
<b>Skin</b>	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Get medical attention.
<b>Ingestion</b>	<b>Do Not Induce Vomiting!</b> Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention immediately.

## 5. FIREFIGHTING MEASURES

<b>Suitable (and unsuitable) extinguishing media</b>	Flammable liquid. Use water spray (fog), alcohol-resistant foam, dry chemical or carbon dioxide. Use appropriate media for adjacent fire. Use flooding quantities of water to cool unopened containers.
<b>Special protective equipment and precautions for firefighters</b>	Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.
<b>Specific hazards arising from the chemical</b>	Highly Flammable liquid and vapor. Emits toxic fumes (carbon oxides) under fire conditions. Vapors from this product may migrate along currents to an ignition source and flash back. Slightly explosive in presence of open flames and sparks of heat, of oxidizing materials, of acids. (See also Stability and Reactivity section). Runoff to sewer may create fire or explosion hazard.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions, protective equipment and emergency procedures</b>	See section 8 for recommendations on the use of personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilations. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
<b>Environmental precautions</b>	Prevent spillage from entering drains. Any release to the environment may be subject to a federal/national or local reporting requirements.
<b>Methods and materials for containment and cleaning up</b>	Absorb spill with vermiculite or other inert absorbent material, then place in a suitable container for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

See section 8 for recommendations on the use of personal protective equipment. Avoid contact with skin and eyes. Avoid inhalation of vapors or mist. Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Take measure to prevent buildup of electrostatic charge. No Smoking.

### Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a cool, dry well ventilated area. Keep away from heat, sparks and flame. Keep away from incompatible materials (see section 10 for incompatibilities).

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Occupational exposure controls:** Ventilation and appropriate grounding of containers.

Component	Exposure Limits	Basis	Entity
Ethyl Alcohol	1000 ppm 1900 mg/m <sup>3</sup>	REL	NIOSH
	1000 ppm 1900 mg/m <sup>3</sup>	PEL	OSHA
	1000 ppm 1880 mg/m <sup>3</sup>	STEL	ACGIH
	3300 ppm	IDLH	OSHA

Methyl Alcohol	200 ppm 262 mg/m <sup>3</sup>	TLV	ACGIH
	250 ppm 328 mg/m <sup>3</sup>	STEL	ACGIH
	200 ppm 260 mg/m <sup>3</sup>	PEL	OSHA
	200 ppm 260 mg/m <sup>3</sup>	REL	NIOSH
	250 ppm 325 mg/m <sup>3</sup>	STEL	NIOSH

TWA: Time Weighted Average over 8 hours of work.

TLV: Threshold Limit Value over 8 hours of work.

REL: Recommended Exposure Limit

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes.

IDLH: Immediately Dangerous to Life or Health

WEEL: Workplace Environmental Exposure Levels

CEIL: Ceiling

### Personal Protection

<b>Eyes</b>	Wear chemical safety glasses with a face shield for splash protection. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
<b>Inhalation</b>	Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an approved respirator.
<b>Skin</b>	Wear neoprene or rubber gloves, apron and other protective clothing appropriate to the risk of exposure.
<b>Other</b>	Not Available

### Other Recommendations

Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling. Have supplies and equipment for neutralization and running water available

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.)	Clear, Colorless liquid
Odor	Alcohol odor, strong
Odor threshold	100 ppm
pH	Not Available
Melting point/freezing point	Not Available
Initial boiling point and boiling range	78.5°C (173.3°F)
Flash point	14°C (57°F)- Closed cup
Evaporation rate	Not Available
Flammability (solid, gas)	Not Available.
Upper/lower flammability or explosive limit	Lower: 6% Upper: 36.5% (Methanol)
Vapor pressure	Highest known value: 13kPa (97.7 mm Hg) (at 20°C) (Methanol). Weighted average: 1.54 (Air = 1)
Vapor density	(air=1) 1.59
Relative density	Weighted average: 0.8 (Water = 1)
Solubility (ies)	Not Available
Partition coefficient: n-octanol/water	Not Available
Auto-ignition temperature	422°C (791.6°F) (Ethanol)
Decomposition temperature	Not available

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable
<b>Possibility of Hazardous Reactions</b>	Vapors may form explosive mixture with air.
<b>Conditions to Avoid</b>	Heat, flames, sparks, extremes of temperatures, direct sunlight, oxidizers and incompatibles
<b>Incompatible Materials</b>	Oxidizers, sodium, potassium and lithium metals. Sulfuric, nitric, and perchloric acids. Reducing agents, hydrazides, anhydrides.
<b>Hazardous Decomposition Products</b>	Carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

#### Ethyl Alcohol

<b>Skin</b>	Not Available
<b>Eyes</b>	Not Available
<b>Respiratory</b>	LC50 Inhalation – rat – 10 h – 20000 ppm
<b>Ingestion</b>	LD50 Oral – rat – 7,060 mg/kg Remarks: Lungs, Thorax, or Respiration: Other changes.

#### Methyl Alcohol

<b>Skin</b>	LD50 Dermal – rabbit- 15,800 mg/kg
<b>Eyes</b>	Not Available
<b>Respiratory</b>	LC50 Inhalation – rat – 4 h – 64000 ppm
<b>Ingestion</b>	LD50 Oral – rat – 5,628 mg/kg

### Carcinogenicity

<b>IARC</b>	No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
<b>ACGIH</b>	A3: Confirmed animal carcinogen with unknown relevance to humans. (Ethyl Alcohol)
<b>NTP</b>	No components of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
<b>OSHA</b>	No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

### Signs & Symptoms of Exposure

<b>Skin</b>	Redness and irritation.
<b>Eyes</b>	Pain or irritation, watering, and redness.
<b>Respiratory</b>	Irritation, headache, drowsiness, slurred speech, fatigue, dizziness, coma and death may result from exposure to high concentration.
<b>Ingestion</b>	Nausea, vomiting, staggering gait, unconsciousness. Gastrointestinal disturbances.

<b>Chronic Toxicity</b>	Prolonged or repeated skin contact may cause dermatitis.
<b>Teratogenicity</b>	Not Available
<b>Mutagenicity</b>	Not Available
<b>Embryotoxicity</b>	Not Available
<b>Target Organ(s)</b>	Nerves, Liver, Heart
<b>Reproductive Toxicity</b>	Not Available
<b>Respiratory/Skin Sensitization</b>	Not Available

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Ethyl Alcohol

<b>Aquatic Vertebrate</b>	LC50 - Oncorhynchus mykiss (rainbow trout) – 13,000 mg/l – 96 h LC50- Oncorhynchus mykiss (rainbow trout) – 10,400 mg/l – 96 h LC50- Pimephales promelas (fathead minnow)–15,3000 mg/l- 96 h LC50 – other fish – 10,000 mg/l – 24 h
<b>Aquatic Invertebrate</b>	Not Available
<b>Terrestrial</b>	Not Available

#### Methyl Alcohol

<b>Aquatic Vertebrate</b>	LC50 - Oncorhynchus mykiss (rainbow trout) – 19,000 mg/l – 96 h LC50- Cyprinus carpio (Carp) – 36,000 mg/l – 48 h
<b>Aquatic Invertebrate</b>	EC50 – Daphnia magna (Water flea) – 24,500 mg/l – 48 h EC100 – Daphnia magna (Water flea) – 10,000 mg/l – 24 h
<b>Terrestrial</b>	Not Available

<b>Persistence and Degradability</b>	Not Available
<b>Bioaccumulative Potential</b>	Not Available
<b>Mobility in Soil</b>	Not Available
<b>PBT and vPvB Assessment</b>	Not Available
<b>Other Adverse Effects</b>	Not Available

## 13. DISPOSAL CONSIDERATIONS

<b>Waste Residues</b>	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container or residue.
<b>Product Containers</b>	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.

## 14. TRANSPORT INFORMATION

US DOT	UN1987, Alcohol, n.o.s, (Ethanol, Methanol), 3, pg II
TDG	UN1987, ALCOHOL, N.O.S. (Ethanol, Methanol), 3, pg II
IMDG	UN1987, ALCOHOL, N.O.S. (Ethanol, Methanol), 3, pg II
Marine Pollutant	No
IATA/ICAO	UN1987, ALCOHOL, N.O.S. (Ethanol, Methanol), 3, pg II

## 15. REGULATORY INFORMATION

TSCA Inventory Status	All ingredients are listed on the TSCA Active inventory.
DSL / NDSL	All ingredients are listed on the DSL inventory.
California Proposition 65	Listed: Methyl Alcohol, Ethyl Alcohol
Rhode Island: Hazardous Substance List	Listed: Methyl Alcohol, Ethyl Alcohol

Massachusetts: Toxic or Hazardous Substance List, Right to Know	Listed: Methyl Alcohol, Ethyl Alcohol
Pennsylvania: Hazardous Substance List	Listed: Methyl Alcohol, Ethyl Alcohol
New Jersey: Right to Know Hazardous Substance List	Listed: Methyl Alcohol, Ethyl Alcohol
SARA 302	Not Listed
SARA 304	Not Listed
SARA 311	Fire Hazard, Acute Health Hazard, Chronic Health Hazard.
SARA 312	Fire Hazard, Acute Health Hazard, Chronic Health Hazard.
SARA 313	Listed: Methyl Alcohol
WHMIS Canada	Class B2: Flammable and combustible material – Flammable liquid. Class D1B: Poisonous and infectious material – Immediate and serious effects – Toxic. Class D2A: Poisonous and infectious material – Other effects – Very toxic. Class D2B: Poisonous and infectious material – Other effects – Toxic.

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## 16. OTHER INFORMATION

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Revision	Date
Original	08/01/2019
Revision 1	04/18/2022

Disclaimer: The information provided in this Safety Data Sheet (“SDS”) is correct to the best of our knowledge, information, and belief at the date of publication. The information in this SDS relates only to the specific Product identified under Section 1, and does not relate to its use in combination with other materials or products, or its use as to any particular process. Those handling, storing, or using the Product should satisfy themselves that they have current information regarding the particular way the Product is handled, stored or used and that the same is done in accordance with federal, state and local law. WE DO NOT MAKE ANY WARRANTY, EXPRESS OR IMPLIED, INCLUDING (WITHOUT LIMITATION) WARRANTIES WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN OR WITH RESPECT TO FITNESS FOR ANY PARTICULAR USE. WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, INJURY, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT.