

Ethanol SDA 3A 190 Proof

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Trade name	Ethanol SDA 3A 190 Proof		
Synonyms	Denatured Alcohol		
Use	Industrial & Institutional cleaning, Industrial use, Intermediate, Paint and Coatings, Pharmaceutical, Process/Extraction Solvent, Raw material for chemical processes, Raw material for cosmetic products, Raw material for industry, Raw material for pharmaceuticals, Solvent		
Company	Sasol Chemicals (USA) LLC (an affiliate of Sasol Chemicals North America LLC)		
Address	12120 Wickchester Lane Houston TX 77079		
Telephone	CHEMTREC North America Transportation Emergency (24-hr)		(800) 424-9300
	CHEMTREC World Wide		(703) 527-3887
	Other Emergencies (24-hr)		(337) 494-5142
	SDS and Product Information (8:00am-4:30pm CST)		(281) 588-3491
	Health and Safety Information (7:30am-4:00pm CST)		(281) 588-3492
E-mail address	SasolElectronicSDS@us.sasol.com		

SECTION 2 HAZARDS IDENTIFICATION

OSHA/GHS Hazards	Flammable liquids	Category 2
	Eye irritation	Category 2A
	Acute toxicity (Oral)	Category 4
	Acute toxicity (Inhalation)	Category 4
	Acute toxicity (Dermal)	Category 4

LABEL ELEMENTS**Hazard symbols****Signal word** Danger

Hazard statements	H225 Highly flammable liquid and vapour.
	H319 Causes serious eye irritation.
	H302 Harmful if swallowed.
	H312 Harmful in contact with skin.
	H332 Harmful if inhaled.

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Precautionary statements

- Prevention**
- 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.
 - P280 Wear protective gloves/ eye protection/ face protection.
 - P264 Wash skin thoroughly after handling.
 - P270 Do not eat, drink or smoke when using this product.
 - P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
 - P271 Use only outdoors or in a well-ventilated area.
- Response**
- P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
 - P370 + P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide for extinction.
 - P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - P337 + P313 If eye irritation persists: Get medical advice/ attention.
 - P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
 - P330 Rinse mouth.
 - P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 - P312 Call a POISON CENTER/doctor if you feel unwell.
- Storage**
- P403 + P235 Store in a well-ventilated place. Keep cool.
- Disposal**
- P501 Dispose of contents/ container to an approved waste disposal plant.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

<u>Components</u>	<u>CAS-No.</u>	<u>Weight percent</u>
Ethanol	64-17-5	95
Methanol	67-56-1	5

See Section 8 for Exposure Guidelines and Section 15 for Regulatory Classifications.

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SECTION 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 while removing all contaminated clothes and shoes. When symptoms persist or in all cases of doubt seek medical advice. Wash contaminated clothing before re-use.
- Inhalation** Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. In case of shortness of breath, give oxygen. Call a physician immediately.
- Ingestion** If swallowed, call a poison control centre or doctor immediately. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

SECTION 5 FIREFIGHTING MEASURES

FLAMMABLE PROPERTIES

Fire/explosion Flash back possible over considerable distance. NFPA Class 1B flammable liquid.

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Protective equipment and precautions for firefighters Wear self-contained breathing apparatus and protective suit. Keep containers and surroundings cool with water spray.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Methods and materials for containment and cleaning up Evacuate personnel to safe areas. Remove all sources of ignition. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Do not flush into surface water or sanitary sewer system.

Spill precautions Material can create slippery conditions.

SECTION 7 HANDLING AND STORAGE

Safe handling advice Ensure all equipment is electrically grounded before beginning transfer operations. Keep away from heat and sources of ignition.

Storage/Transport temperature Ambient

Load/Unload temperature Ambient

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SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING MEASURES

Ensure adequate ventilation, especially in confined areas.

PERSONAL PROTECTIVE EQUIPMENT

Eyes Chemical resistant goggles must be worn., Face-shield

Skin Wear suitable protective clothing, gloves and eye/face protection.

Inhalation Respiratory protection is normally not required except in emergencies or when conditions cause excessive airborne levels of mists or vapors. Use NIOSH approved respiratory protection.

EXPOSURE GUIDELINES

<u>Components</u>	<u>Exposure limit(s)</u>
Ethanol	ACGIH STEL (Short Term Exposure Limit) 1,000 ppm OSHA PEL (Permissible Exposure Limit) 1,000 ppm 1,900 mg/m ³
Methanol	OSHA PEL (Permissible Exposure Limit) 200 ppm 260 mg/m ³ ACGIH TLV (8-hour) 200 ppm ACGIH STEL (Short Term Exposure Limit) 250 ppm

PEL= Permissible Exposure Limits
TLV= Threshold Limit Value
EL= Excursion Limit

TWA= Time Weighted Average (8 hr.)
STEL= Short Term Exposure Limit (15 min.)
WEEL= Workplace Environmental Exposure Level

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance liquid;

Colour Clear, colorless

Form liquid

Odour alcohol-like

Odour Threshold No data available

Flash point 17 °C, 63 °F;

Flammability Upper explosion limit: 20.0 %(V)
Lower explosion limit: 4 %(V)

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Boiling point/boiling range	78 °C, 173 °F;
Melting point/range	-114 °C, -173 °F;
Auto-ignition temperature	ca. 400 °C, 752 °F; ASTM D 2155;
Decomposition temperature	No data available
Flammability (solid, gas)	No data available
Vapour pressure	ca. 66.661 hPa @ 20 °C, 68 °F;
Vapour density	No data available
Density	0.81 g/cm ³ @ 15.5 °C, 60 °F;
Specific gravity	No data available
Water solubility	miscible
Viscosity	No data available
pH	No data available
Evaporation rate	No data available
Partition coefficient: n-octanol/water	No data available

SECTION 10 STABILITY AND REACTIVITY

Reactivity	Stable at normal ambient temperature and pressure.
Chemical stability	No decomposition if stored and applied as directed.
Conditions to avoid	Keep away from heat and sources of ignition.
Hazardous decomposition products	Combustion products include carbon dioxide, carbon monoxide and possibly other unidentified organic compounds.
Materials to avoid	Can react with strong oxidizers, inorganic acids, and halogens.
Hazardous polymerisation	None.

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SECTION 11 TOXICOLOGICAL INFORMATION

Acute dermal toxicity LD50 Rabbit: > 2,000 mg/kg; OECD Test Guideline 402
Test substance: Ethanol; (literature value)

LD50 Rabbit: > 200 - 1,000 mg/kg
Test substance: Methanol

Acute inhalation toxicity LC50 Mouse (4 hours): > 20 mg/l
Test substance: Ethanol; (literature value)

LC50 Rat: > 2 - 10 mg/l
Test substance: Methanol

Acute oral toxicity LD50 Rat: 2,000 mg/kg; OECD Test Guideline 401
Test substance: Ethanol; (literature value)

LD50 Rat: > 50 - 300 mg/kg
Test substance: Methanol

Skin corrosion/irritation (Rabbit): OECD Test Guideline 404
Test substance: Ethanol
Not irritating, (literature value)

Test substance: Methanol
irritating

Serious eye damage/eye irritation (Rabbit): OECD Test Guideline 405
Test substance: Ethanol
irritating, (literature value)

Respiratory or skin sensitisation Guinea pig: not sensitizing; Maximisation Test
(literature value)

Germ cell mutagenicity **Genotoxicity in vitro:**
Type: Ames test; OECD Test Guideline 471
System: Salmonella typhimurium; with and without metabolic activation
Result: In vitro tests did not show mutagenic effects
Test substance: Ethanol
(literature value)

Genotoxicity in vivo:
No data available

Assessment Mutagenicity:
Based on available data, the classification criteria are not met.

Reproductive toxicity **Reproductive toxicity:**

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No data available

Assessment Reproductive toxicity:

No data available

Teratogenicity:

No data available

Assessment teratogenicity:

No data available

STOT - single exposure No data available

STOT - repeated exposure Rat; . Oral; 90-day;
NOAEL: 1,730 mg/kg
LOAEL: 3,160 mg/kg
Test substance: Ethanol
Based on available data, the classification criteria are not met.

Aspiration toxicity No data available

Carcinogenicity **Assessment carcinogenicity:**
Contains no ingredient listed as a carcinogen

SECTION 12 ECOLOGICAL INFORMATION

Toxicity to fish LC50 (Pimephales promelas (fathead minnow)) 96 hours: > 100 mg/l; flow-through test
Test substance: Ethanol
(literature value)

LC50 (Pimephales promelas (fathead minnow)) 96 hours: 29,400 mg/l
Test substance: Methanol

Toxicity to aquatic invertebrates EC50 (Ceriodaphnia dubia (water flea)) 48 hours: > 100 mg/l; static test
Test substance: Ethanol
(literature value)

Toxicity to algae EC50 (Chlorella vulgaris) 72 hours: > 100 mg/l; static test; OECD Test Guideline 201
Test substance: Ethanol
(literature value)

Chronic toxicity to aquatic invertebrates NOEC (Ceriodaphnia dubia (water flea)) 10 d: 9.6 mg/l; semi-static test
Test substance: Ethanol
(literature value)

Biodegradation Readily biodegradable.

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OECD Test Guideline 301B (28 d): > 60 %
Test substance: Ethanol
(literature value)

Bioaccumulative potential Test substance: Ethanol
No bioaccumulation is to be expected (log Pow <= 4).

Mobility in soil No data available

Other adverse effects No data available

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Code D001 - Ignitability (RQ 100 LB). This product has the RCRA characteristic of ignitability. Re-evaluation of the product may be required by the user at the time of disposal, since the product uses, transformations, mixtures, contamination, and spillage may change the classification.

Disposal methods Dispose of only in accordance with local, state, and federal regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil.

Empty containers. Empty containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Empty drums should be completely drained, triple-rinsed, properly bunged and promptly returned to a drum reconditioner, or properly disposed.

SECTION 14 TRANSPORT INFORMATION

DOT UN 1987, Alcohols, n.o.s.(Ethyl alcohol, methanol), 3, II
(RQ Methanol) When shipped in quantities greater than 100,000 lbs, RQ must be added to the shipping description.

IATA UN 1987, Alcohols, n.o.s.(Ethyl alcohol, methanol), 3, II
(RQ Methanol) When shipped in quantities greater than 100,000 lbs, RQ must be added to the shipping description.

IMDG UN 1987, Alcohols, n.o.s., (Ethyl alcohol, methanol), 3, II
(RQ Methanol) When shipped in quantities greater than 100,000 lbs, RQ must be added to the shipping description.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Remarks No data available

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SECTION 15 REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS**TSCA Inventory Listing****Components**Ethanol
Methanol**CAS-No.**64-17-5
67-56-1**SARA 302 Status****Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

CAS-No.**Weight percent****SARA 311/312 Classification**

Flammable liquids, Eye irritation, Acute toxicity

SARA 313 Chemical**Components**

Methanol

CAS-No.

67-56-1

Weight percent

5 %

US. EPA CERCLA Hazardous Substances (40 CFR 302)**Components**

Methanol

Reportable Quantity

5,000 LB

Weight percent

5 %

INTERNATIONAL REGULATIONS**WHMIS Classification**

Flammable liquids	Category 2
Eye irritation	Category 2A
Acute toxicity (Oral)	Category 4
Acute toxicity (Inhalation)	Category 4
Acute toxicity (Dermal)	Category 4

European Union

Classification according to Regulation (EU) 1272/2008.

Flammable liquids, Category 2
 Eye irritation, Category 2
 Acute toxicity (Oral), Category 4
 Acute toxicity (Inhalation), Category 4
 Acute toxicity (Dermal), Category 4

Australia. Inventory of Chemical Substances (AICS)

Listed

Japan. Inventory of Existing and New Chemical Substances (ENCS)

Listed

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Japan. ISHL - Inventory of Chemical Substances	Listed
Canada. Domestic Substances List (DSL) Inventory	Listed
Canada. Non-Domestic Substance Listing (NDSL)	Not listed
Philippines. Inventory of Chemicals / Chemical Substances (PICCS)	Listed
Korea. Existing Chemicals Inventory (KECI)	Listed
China. Inventory of Existing Chemical Substances (IECSC)	Listed
Mexico. National Inventory of Chemical Substances (INSQ)	Listed
New Zealand. Inventory of Chemical Substances (NZIoC)	Listed
Switzerland. Inventory of Notified New Substances (CHINV)	Listed
Taiwan. National Existing Chemical Inventory (NECI)	Listed

Please note: The names and CAS numbers which are used for this product in the stated inventories may deviate from the information which is listed in Section 3.

STATE REGULATIONS

California Prop. 65

Components

Methanol

CAS-No.

67-56-1

SECTION 16 OTHER INFORMATION

HAZARD RATINGS

	<u>Health</u>	<u>Flammability</u>	<u>Physical Hazard/ Instability</u>
HMIS®	2	3	0
NFPA	2	3	0

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