

Ethanol SDA 23A 200 Proof

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

Trade name	Ethanol SDA 23A 200 Proof		
Synonyms	Denatured alcohol		
Use	Industrial use, Intermediate, Personal care, 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	ProdSafe.Shared@sasol.com		

SECTION 2 HAZARDS IDENTIFICATION

OSHA/GHS Hazards	Flammable liquids Eye irritation	Category 2 Category 2A
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LABEL ELEMENTS

Hazard symbols



Signal word Danger

Hazard statements H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.

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.

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P243 Take precautionary measures against static discharge.

P280 Wear protective gloves/ eye protection/ face protection.

P264 Wash skin thoroughly after handling.

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.

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	93
Acetone	67-64-1	7

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

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. Dangerous gases or fumes may occur in case of fire.
 NFPA Class 1B flammable liquid.

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Suitable extinguishing media	Water spray. Alcohol-resistant foam. Dry chemical. Carbon dioxide (CO ₂).
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 pressure	Ambient

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING MEASURES

Ensure adequate ventilation, especially in confined areas.

PERSONAL PROTECTIVE EQUIPMENT

Eyes	Wear as appropriate: Goggles. 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
Acetone	OSHA PEL (Permissible Exposure Limit) 1,000 ppm 2,400 mg/m ³ ACGIH TLV (8-hour) 500 ppm ACGIH STEL (Short Term Exposure Limit) 750 ppm

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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 colourless
Form	liquid
Odour	alcohol-like
Odour Threshold	No data available
Flash point	13 °C, 55.4 °F;
Flammability	Upper explosion limit: 20 %(V) Lower explosion limit: 4 %(V)
Boiling point/boiling range	74 - 80 °C, 165.2 - 176 °F;
Melting point/range	ca. -114 °C, -173.2 °F; Ethanol
Auto-ignition temperature	ca. 400 °C, 752 °F;
Decomposition temperature	No data available
Flammability (solid, gas)	Not applicable
Vapour pressure	ca. 66.661 hPa @ 20 °C, 68 °F;
Vapour density	No data available
Density	6.62 lb/gal @ 15.5 °C, 60 °F; ASTM D-4052;
Relative density	0.794 @15.5 °C, 60 °F;
Water solubility	completely soluble
Viscosity	No data available

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Viscosity, dynamic	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.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute dermal toxicity	LD50 Rabbit: > 2,000 mg/kg; OECD Test Guideline 402 Test substance: Ethanol (literature value) LD50 Rabbit: > 2,000 mg/kg Test substance: Acetone (literature value)
Acute inhalation toxicity	LC50 Mouse (4 hours): > 20 mg/l Test substance: Ethanol (literature value) LC50 Rat (4 hours): > 20 mg/l Test substance: Acetone (literature value)
Acute oral toxicity	LD50 Rat: 2,000 mg/kg; OECD Test Guideline 401 Test substance: Ethanol (literature value)

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LD50 Rat: > 2,000 mg/kg
Test substance: Acetone
(literature value)

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

(Rabbit)
Test substance: Acetone
Moderately irritating
(literature value)

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

(Rabbit)
Test substance: Acetone
irritating
(literature value)

Respiratory or skin sensitisation Guinea pig: not sensitizing; Maximisation Test
Ethanol
(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)
Type: Ames test
System: Salmonella typhimurium; with and without metabolic activation
Result: In vitro tests did not show mutagenic effects
Test substance: Acetone
(literature value)

Genotoxicity in vivo:
No data available

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

Reproductive toxicity **Reproductive toxicity:**
No data available

Assessment Reproductive toxicity:

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No data available

Teratogenicity:

No data available

Assessment teratogenicity:

No data available

STOT - single exposure The substance or mixture is not classified as specific target organ toxicant, single exposure.

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 (Oncorhynchus mykiss (rainbow trout)) 96 hours: > 100 mg/l; static test
Test substance: Acetone
(literature value)

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

EC50 (Daphnia magna (Water flea)) 48 hours: > 100 mg/l; static test
Test substance: Acetone
(literature value)

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

EC50 (Pseudokirchneriella subcapitata (green algae)) 96 hours: > 100 mg/l; static test
Test substance: Acetone
(literature value)

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Chronic toxicity to fish	No data available
Chronic toxicity to aquatic invertebrates	NOEC (Ceriodaphnia dubia (water flea)) 10 d: 9.6 mg/l; semi-static test Test substance: Ethanol (literature value) NOEC (Daphnia magna (Water flea)) 28 d: > 100 mg/l; flow-through test Test substance: Acetone (literature value)
Biodegradation	Readily biodegradable. OECD Test Guideline 301B (28 d): > 60 % Test substance: Ethanol (literature value) OECD Test Guideline 301B (28 d): > 60 % Test substance: Acetone (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

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- DOT** UN 1170, Ethanol solutions, 3, II
(RQ Acetone)
When shipped in quantities greater than 71,428 lbs, RQ must be added to the shipping description.
- IATA** UN 1170, Ethanol solutions, 3, II
(RQ Acetone)
When shipped in quantities greater than 71,428 lbs, RQ must be added to the shipping description.
- IMDG** UN 1170, Ethanol solutions, 3, II
(RQ Acetone)
When shipped in quantities greater than 71,428 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

SECTION 15 REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA Inventory Listing

Components

Ethanol

Acetone

CAS-No.

64-17-5

67-64-1

All chemical substances in this product are either on the TSCA Active Inventory, or in compliance with the inventory.

SARA 302 Status

Components

CAS-No.

Weight percent

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

SARA 311/312 Classification

Should this product meet EPCRA 311/312 Tier reporting criteria of 40 CFR 370, refer to Section 2 of this SDS for appropriate classification and Section 3 for components that meet the hazardous classification.

SARA 313 Chemical

Components

CAS-No.

Weight percent

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US. EPA CERCLA Hazardous Substances (40 CFR 302)

Components

Acetone

Reportable Quantity

5,000 LB

Weight percent

7 %

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INTERNATIONAL REGULATIONS

WHMIS Classification

Flammable liquids	Category 2
Eye irritation	Category 2A

European Union

Classification according to Regulation (EU) 1272/2008.

Flammable liquids, Category 2
Eye irritation, Category 2

Australia. Inventory of Chemical Substances (AICS)	Listed
Japan. Inventory of Existing and New Chemical Substances (ENCS)	Listed
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
none

CAS-No.

SECTION 16 OTHER INFORMATION

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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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