

WHITAKER Safe

 Safety Data Sheet

 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

 Date of issue: 05/25/2016
 Revision date: 05/25/2016
 Version: 1.0

<b>SECTION 1: Identificati</b>	on
1.1. Identification	
Product form	: Mixture
Product name	: Ethanol SDA 3C 200
Synonyms	: 200 Proof Ethyl Alcohol, Anhydrous, Denatured Ethanol
1.2. Relevant identified	uses of the substance or mixture and uses advised against
Uses	: For excipient use only, Manufacture of pharmaceutical mixtures, Other consumer uses
Restrictions	: Alcoholic Beverage
1.3. Details of the suppl	lier of the safety data sheet
Atlanta Branch Office	Ocoee Branch Office Spartanburg Branch Office
Whitaker Oil Company	Whitaker Oil Company Whitaker Chemicals LLC
1557 Marietta Road NW	280 Enterprise Street 405 John Dodd Road
Atlanta, GA 30318	Ocoee, FL 34761 Spartanburg, SC 29303
404-355-8220 (t)	407-656.0088 (t) 864-578-6968 (t)
404-355-2436 (f)	407-877-8335 (f) 864-578-6864 (f)
WEBSITE: www.whitakeroil.co	m EMAIL: <u>SDS@whitakeroil.com</u>
1.4. Emergency telepho	
Emergency number	: <b>CHEMTREC</b> 800-424-9300
SECTION 2: Hazard(s)	identification
	e substance or mixture
GHS-US classification	
GLOSOLO CISSINGATION	
Flammable liquids Category 2	H225 ion Category 2A H319
Flammable liquids Category 2 Serious eye damage/eye irritat Specific target organ toxicity (s Specific target organ toxicity (s	ion Category 2A H319 single exposure) Category 3 H335 single exposure) Category 3 H336
Flammable liquids Category 2 Serious eye damage/eye irritat Specific target organ toxicity (s Specific target organ toxicity (s Full text of H statements : see	ion Category 2A H319 single exposure) Category 3 H335 single exposure) Category 3 H336
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### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

lenses, if present and easy to do. Continue rinsing P312 - Call a POISON CENTER or doctor/physician if you feel unwell P337+P313 - If eye irritation persists: Get medical advice/attention
P370+P373 - In eye initiation persists. Get medical advice/attention P370+P378 - In case of fire: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish
P403+P233 - Store in a well-ventilated place. Keep container tightly closed P403+P235 - Store in a well-ventilated place. Keep cool
P405 - Store locked up P501 - Dispose of contents/container in accordance with local, regional, national, and/or international regulations

#### 2.3. Other hazards

Hazards Not Otherwise Classified (HNOC): Prolonged or repeated contact may cause skin to become dry or cracked.

2.4. Unknown acute toxicity (GHS US)

Not applicable

### SECTION 3: Composition/Information on ingredients

## 3.1. Substance

Not applicable **3.2. Mixture** 

Name	Product identifier	%	GHS-US classification
Ethyl Alcohol	(CAS No) 64-17-5	<= 95.3	Flam. Liq. 2, H225 Eye Irrit. 2A, H319
Isopropyl Alcohol	(CAS No) 67-63-0	<= 4.7	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336

Full text of hazard classes and H-statements : see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If signs/ symptoms continue, get medical attention.
First-aid measures after skin contact	: Immediately flush affected area with plenty of water while removing contaminated clothing. Wash contaminated clothing before reuse. If irritation persists, get medical attention.
First-aid measures after eye contact	: Thoroughly flush the eyes with large amounts of clean low-pressure water for at least 15 minutes, occassionally lifting the upper and lower eyelids. If irritation persists, seek medical attention. Remove contact lenses. Do not use eye ointment unless directed by a physician.
First-aid measures after ingestion	: Do NOT induce vomiting. Risk of damage to lungs exceeds poisoning risk. Drink plenty of water. If vomiting does occur, have victim lean forward to reduce risk of aspiration. If victim is drowsy or unconscious, place on the left side with head down. Never give anything by mouth to an unconscious person. Obtain emergency room treatment immediately.
4.2. Most important symptoms and effect	ts, both acute and delayed
Symptoms/injuries	: May cause drowsiness or dizziness.
Symptoms/injuries after inhalation	: May cause respiratory irritation.
Symptoms/injuries after eye contact	: Irritation to eyes.
4.3. Indication of any immediate medical	attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Special hazards arising from the sub	stance or mixture
Fire hazard	: Vapor forms explosive mixture with air and may cause a flash fire. Eliminate all sources of ignition. Prevent entry into waterways, sewers, basements or confined areas.
	Ethanol vapors are heavier than air and may travel a considerable distance to a source of ignition and flash back.
	Extreme caution must be exercised in fighting alcohol fires. When exposed to ignition source in air, vapors can burn in open or explode if confined.
Reactivity	: Highly flammable liquid and vapor.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

5.3. Advice for firefighters	
Protection during firefighting :	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
<b>SECTION 6: Accidental release measu</b>	res
6.1. Personal precautions, protective equip	oment and emergency procedures
Emergency procedures :	Clean-up to be performed only by trained and properly equipped personnel. Wear recommended personal protective equipment. Eliminate all sources of ignition. Ensure adequate ventilation. Evacuate personnel to safe areas.
	Ventilate spillage area. NO open flames, NO sparks, and NO smoking. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.
Protective equipment :	Do not attempt to take action without suitable protective equipment. For further information refer to section 8 Exposure controls/personal protection" ".
6.2. Environmental precautions	
Avoid release to the environment.	
If necessary, all contaminated waste water must be	treated in a municipal or industrial wastewater treatment plant before release to surface water.
6.3. Methods and material for containment	and cleaning up
Methods for cleaning up :	Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other information :	Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
For further information refer to section 8 : Exposure	-controls/personal protection"".
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling :	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.
Hygiene measures :	Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, including	any incompatibilities
	Ground/bond container and receiving equipment.
Storage conditions :	Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

## SECTION 8: Exposure controls/personal protection

8.1. **Control parameters** 

Isopropyl Alcohol (67-63-0)		
ACGIH	ACGIH TWA (ppm)	200 ppm (2-propanol; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
ACGIH	ACGIH STEL (ppm)	400 ppm (2-propanol; USA; Short time value; TLV - Adopted Value)
Ethyl Alcohol (64-17-5)		
ACGIH	ACGIH STEL (ppm)	1000 ppm (Ethanol; USA; Short time value; TLV - Adopted Value)

05/25/2016	EN (English LIC) 2/9
Eye protection	: Use splash goggles when eye contact due to splashing or spraying liquid is possible.
Hand protection	: Wear chemical resistant gloves.
Appropriate engineering controls	: General room or local exhaust ventilation is usually required to meet exposure limit(s). Electrical equipment should be grounded and conform to applicable electrical code.
8.2. Exposure controls	

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Skin and body protection	: When skin contact is possible, protective clothing including gloves, apron, sleeves, boots, head and face protection should be worn.
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment.
Environmental exposure controls	: Avoid release to the environment.

### **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and o	chemical properties
Physical state	: Liquid
Color	: Colorless liquid / Invisible vapor.
Odor	: Sweet. Alcohol-like
Odor threshold	: No data available
рН	: Not applicable
Melting point/ Freezing point	: -173.4 °F
Boiling point	: 173.3 °F
Flash point	: 55 - 61 °F
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Lower: 3.3% vol Upper: 19.0% vol
Vapor pressure	: 44.59 mmHg
Relative vapor density at 20 °C	: 1.6 (Air=1.0)
Relative density	: No data available
Specific gravity / density	: 0.789 g/cm <sup>3</sup>
Solubility	: Completely soluble
Log Pow	: -0.35
Auto-ignition temperature	: 685 °F
Decomposition temperature	: Not determined
Viscosity, kinematic	: 1.08 mm²/s
Viscosity, dynamic	: No data available
Explosion limits	: Not data available
Explosive properties	: Not explosive
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
9.2. Other information	

No additional information available

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SECI	ION 10: Stability and reactivity		
10.1.	Reactivity		
Will not	toccur		
10.2.	Chemical stability		
Stable	under normal conditions.		
10.3.	Possibility of hazardous reactions		
No dan	gerous reactions known under normal conditions of use.		
10.4.	Conditions to avoid		
Avoid c	contact with hot surfaces. Heat. No flames, No sparks. Eliminate all sources of ignition.		
10.5.	Incompatible materials		
Contac	t with acetyl chloride or other oxidizing agents may result in a violent reaction.		
10.6.	Hazardous decomposition products		
Not exp	Not expected to decompose under normal conditions.		
SECT	SECTION 11: Toxicological information		
11.1.	Information on toxicological effects		
Acute to	oxicity : Not classified		

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Isopropyl Alcohol (67-63-0)	
LD50 dermal rabbit	12870 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; 16.4; Rabbit)
LC50 inhalation rat (mg/l)	73 mg/l/4h (Rat)
ATE US (dermal)	12870.000 mg/kg body weight
ATE US (vapors)	73.000 mg/l/4h
ATE US (dust, mist)	73.000 mg/l/4h
Ethyl Alcohol (64-17-5)	
LD50 oral rat	10740 mg/kg body weight (Rat; OECD 401: Acute Oral Toxicity; Experimental value)
LD50 dermal rabbit	> 16000 mg/kg (Rabbit; Literature study)
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Isopropyl Alcohol (67-63-0)	
IARC group	3 - Not Classifiable
Ethyl Alcohol (64-17-5)	
IARC group	1 - Carcinogenic to Humans
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation. May cause drowsiness or dizziness.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: May cause respiratory irritation.
Symptoms/injuries after eye contact	: Irritation to eyes.
SECTION 12: Ecological information	
12.1. Toxicity	

 12.1.
 Toxicity

 Ecology - general
 : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Isopropyl Alcohol (67-63-0)		
LC50 fish 2	9640 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Pimephales promelas; Flow- through system; Fresh water; Experimental value)	
EC50 Daphnia 2	13299 mg/l (EC50; Other; 48 h; Daphnia magna)	
Threshold limit algae 1	> 1000 mg/l (EC50; UBA; 72 h; Scenedesmus subspicatus)	
Ethyl Alcohol (64-17-5)		
LC50 fish 2	13000 mg/l (LC50; 96 h; Salmo gairdneri; Static system; Fresh water)	

### 12.2. Persistence and degradability

Isopropyl Alcohol (67-63-0)		
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. No (test)data on mobility of the substance available.	
Biochemical oxygen demand (BOD)	1.19 g O₂/g substance	
Chemical oxygen demand (COD)	2.23 g O₂/g substance	
ThOD	2.40 g O <sub>2</sub> /g substance	
Ethyl Alcohol (64-17-5)		
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. No (test)data on mobility of the substance available.	
Biochemical oxygen demand (BOD)	0.8 - 0.967 g O₂/g substance	
Chemical oxygen demand (COD)	1.70 g O <sub>2</sub> /g substance	

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

cording to Federal Register / Vol. 77, No. 58 / Mono		
Ethyl Alcohol (64-17-5)		
ThOD	2.10 g O₂/g substance	
2.3. Bioaccumulative potential		
Isopropyl Alcohol (67-63-0)		
Log Pow	0.05 (Weight of evidence approach; Other; 25 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
Ethyl Alcohol (64-17-5)		
Log Pow	-0.35 (Experimental value; OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method; 24 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
2.4. Mobility in soil		
Isopropyl Alcohol (67-63-0)		
Surface tension	0.021 N/m (25 °C)	
Ethyl Alcohol (64-17-5)		
Surface tension	0.0245 N/m (20 °C)	
12.5. Other adverse effects		
Effect on the global warming	: No known effects from this product.	
SECTION 13: Disposal considerat	ions	
13.1. Waste treatment methods		
Waste disposal recommendations	: Dispose of in compliance with the laws and regulations pertaining to this product in your jurisdiction. Oil soaked materials may spontaneously combust and should be properly managed to avoid ignition and heat sources or oxygen rich environments. Collect and store soaked materials in closed, metal containers to help prevent combustion. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste generators must consult state and local hazardous waste classification.	
Additional information	Example a state in second different and second and taken from the second in second in the second se	
	<ul> <li>Empty containers should be decontaminated and taken for local recycling, recovery or waste disposal. Flammable vapors may accumulate in the container.</li> </ul>	
	disposal. Flammable vapors may accumulate in the container.	
SECTION 14: Transport information	disposal. Flammable vapors may accumulate in the container.	
SECTION 14: Transport information Department of Transportation (DOT) n accordance with DOT	disposal. Flammable vapors may accumulate in the container.	
SECTION 14: Transport information Department of Transportation (DOT) In accordance with DOT Transport document description UN-No.(DOT) Proper Shipping Name (DOT) Class (DOT) Packing group (DOT)	disposal. Flammable vapors may accumulate in the container.	



: 242

DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx)

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

DOT Special Provisions (49 CFR 172.102)	<ul> <li>24 - Alcoholic beverages containing more than 70 percent alcohol by volume must be transported as materials in Packing Group II. Alcoholic beverages containing more than 24 percent but not more than 70 percent alcohol by volume must be transported as materials in Packing Group III</li> <li>B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable</li> <li>IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672)</li> <li>T2 - 1.5 178.274(d)(2) Normal</li></ul>
DOT Packaging Exceptions (49 CFR 173.xxx)	: 4b;150
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 L
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel
Emergency Response Guide (ERG) Number	: 127
Other information	: No supplementary information available.
TDG	
Not applicable	
Transport by sea	
UN-No. (IMDG)	: 1170
Proper Shipping Name (IMDG)	: ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
Class (IMDG)	: 3 - Flammable liquids
Packing group (IMDG)	: III - substances presenting low danger
Limited quantities (IMDG)	: 5L
Air transport	
UN-No. (IATA)	: 1170
Proper Shipping Name (IATA)	: Ethanol solution
Class (IATA)	: 3 - Flammable Liquids
Packing group (IATA)	: III - Minor Danger
SECTION 15: Regulatory information	
15.1. US Federal regulations	
Ethanol SDA 3C 200	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Isopropyl Alcohol 99% CAS No 67-63-0 <= 9.465%
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5.2. International regulations	
CANADA Io additional information available	

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### **EU-Regulations**

No additional information available

#### **National regulations**

E	thyl Alcohol (64-17-5)
Li	sted on IARC (International Agency for Research on Cancer)
15	3 US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

Isopropyl Alcohol (67-63-0)	
U.S New Jersey - Right to Know Hazardous Substance List	
Ethyl Alcohol (64-17-5)	

#### **SECTION 16: Other information**

Revision date	: 05/25/2016
Full text of H-phrases:	
H225	Highly flammable liquid and vapor
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
NFPA health hazard	: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
NFPA fire hazard	: 3 - Liquids and solids that can be ignited under almost all ambient conditions.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

#### SDS US (GHS HazCom 2012)

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. Please be advised revisions to the Safety Data Sheet (SDS) may require a label update. In no event shall Whitaker Oil Company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, conselutional damages, howsoever arising, even if Whitaker Oil Company has been advised of the possibility of such damages. The vendor assumes no responsibility for injury or damages resulting from the inappropriate alteration or manipulation of this SDS and its contents from that originally submitted by Whitaker Oil Company.