



PRODUCT NAME: SDA-40-B (200 PROOF)

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MSDS NO: U2910

EFFECTIVE DATE: august 5, 2014

MANUFACTURED BY: Saffire Blue, Inc.
1444 Bell Mill Road
Tillsonburg, ON N4G 4G9
CANADA
519-286-0295

EMERGENCY PHONE NUMBER: CANUTEC (613) 996-6666

TRANSPORTATION

Table with 3 rows: PRIMARY CLASS (3), CLASS NAME (FLAMMABLE LIQUID), UN# (1987); SUBSIDIARY CLASS (NONE); SHIPPING NAME (Alcohols, N.O.S. (ETHANOL))

I. EMERGENCY AND FIRST AID PROCEDURE

Table with 5 rows: INGESTION, SKIN, INHALATION, EYES, NOTES TO PHYSICIAN. Each row contains specific first aid instructions.

THE INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN ARE BASED UPON DATA BELIEVED TO BE CORRECT. HOWEVER, NO GUARANTEE OR WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED, IS MADE WITH RESPECT TO INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN.

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II. FIRE AND EXPLOSION HAZARD DATA**FLASH POINT, °C** • 13 (Tag closed cup, ASTM D-56)**OTHER
IMPORTANT DATA**

COMPONENT	% V/V	FLAMMABLE LIMITS, % V/V		VAPOUR PRESSURE KPA AT 20°C	VAPOUR DENSITY (AIR = 1)	AUTOIGNI- TION POINT, °C
		LOWER	UPPER			
(1) Ethyl Alcohol	99.88	3.3	19.0	5.87	1.6	422
(2) Tertiary Butyl Alcohol	0.125	2.4	8.0	4.13	2.6	N/A
(3) Denatonium Benzoate	(0.47g/100 L)	N/A	N/A	N/A	N/A	N/A
Water	Balance					

**EXTINGUISHING
MEDIA**

- Apply alcohol-type or all-purpose-type foams by manufacturers' recommended techniques for large fires.
- Use carbon dioxide or dry chemical media for small fires.
- Water is generally unsuitable and may help to spread the fire.

**SPECIAL
FIREFIGHTING
PROCEDURES**

- Use water spray to cool fire-exposed containers and structures.
- Use water spray to disperse vapours; reignition is possible.
- Use self-contained breathing apparatus and protective clothing.

**UNUSUAL
FIRE AND
EXPLOSION
HAZARDS**

- Vapours form from this product and may travel or be moved by air currents and ignited by pilot lights, other flames, sparks, heaters, electrical equipment, static discharges or other ignition sources at locations distant from handling point.

III. IDENTIFICATION

CHEMICAL NAME	SPECIALLY DENATURED ETHYL ALCOHOL SDA-40-B (200 PROOF)	CHEMICAL FAMILY	ALCOHOLS/ALKALOIDS	
FORMULA	(1) CH ₃ - CH ₂ - OH (3) C ₂₈ H ₃₄ N ₂ O ₃	MOLECULAR WEIGHT	(1) 46.07	(3) 446.57
	(2) (CH ₃) ₃ - C - OH		(2) 74	
SYNONYMS	• None			
USE	• As a solvent in the manufacture of: hair and scalp preparations, perfumes and perfume tinctures, bay rum, lotions and creams, deodorants, toilet waters and colognes, shampoos, soaps and bath preparations, external pharmaceuticals, disinfectants, insecticides, fungicides and other biocides, cleaning solutions, theater sprays, incense and room deodorants.			

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IV. PHYSICAL DATA

BOILING POINT, °C at 760mm Hg	78.5
FREEZING POINT, °C	Not Available
DENSITY, kg/L @ 20°C	0.7883
COEFFICIENT OF WATER/OIL DISTRIBUTION	Separates from oil
pH	Not Applicable
DISTILLATION RANGE, °C	78.0-79.0
MISCIBILITY IN WATER	Complete
% VOLATILES BY VOLUME	99.999
EVAPORATION RATE (butyl acetate = 1)	1.7

**APPEARANCE
AND ODOUR**

- Colourless liquid with typical lower alcohol odour.
- Odour threshold is in the range of 0.1 to 5100 ppm, according to the Canadian Standards Association publication Z94.4-M1982 (appendix 1).

V. INGREDIENTS AND TOXICOLOGICAL DATA

INGREDIENT	% V/V	CAS NO.	TLV, ppm	LC50, ppm/4h.	LD50, mg/kg	LD50, mg/kg
				RAT, INHAL.	RAT, ORAL	RABBIT, SKIN
(1) Ethyl Alcohol	99.88	64-17-5	1000	31,623	7,060	20,000
(2) Tertiary Butyl Alcohol	0.125	75-65-0	100	N/A	3,500	N/A
(3) Denatonium Benzoate	(0.47g/100L)	3734-33-6	--	N/A	612	N/A
Water	Balance					

REFERENCES: ACGIH (1988-1989), RTECS (1983), MacFarlan Smith Ltd. (1986) Parke Davis Co. (1978).**VI. WHMIS CLASSIFICATION AND SYNERGISTIC MATERIALS****WHMIS CLASSIFICATION**

- Flammable liquid, eye irritant.
- Denatonium benzoate is not a controlled product.

SYNERGISTIC MATERIALS

- Ethanol with carbon tetrachloride, chloroform, bromotrichloromethane, dimethyl-nitrosamine, thioacetamide.



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VII. HEALTH HAZARD DATA

<u>INGESTION</u>	<ul style="list-style-type: none"> • May cause dizziness, faintness, drowsiness, decreased awareness and responsiveness, euphoria, abdominal discomfort, nausea, vomiting, staggering gait, lack of coordination and coma.
<u>SKIN ABSORPTION</u>	<ul style="list-style-type: none"> • No adverse effects with normal skin. However, potentially harmful amounts of material may be absorbed across markedly abraded skin when contact is sustained particularly in children.
<u>INHALATION</u>	<ul style="list-style-type: none"> • High vapour concentrations may cause a burning sensation in the throat and nose, stinging and watering in the eyes. • At concentrations which cause irritation, dizziness, faintness, drowsiness, nausea and vomiting may occur.
<u>SKIN CONTACT</u>	<ul style="list-style-type: none"> • No evidence of adverse effects from available information.
<u>EYE CONTACT</u>	<ul style="list-style-type: none"> • Severe eye irritant. • Vapours can irritate eyes. • Eye damage from contact with liquid is reversible and proper treatment will result in healing within a few days. • Damage is usually mild to moderate conjunctivitis, seen mainly as redness of the conjunctiva.
<u>EFFECT OF REPEATED OVEREXPOSURE</u>	<ul style="list-style-type: none"> • Long term repeated oral exposure to ethanol may result in the development of progressive liver injury with fibrosis.
<u>MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE</u>	<ul style="list-style-type: none"> • Repeated exposure to ethanol may exacerbate liver injury produced from other causes.
<u>OTHER EFFECTS OF OVEREXPOSURE</u>	<ul style="list-style-type: none"> • Repeated ingestion of ethanol by pregnant mothers has been shown to adversely affect the central nervous system of the fetus, producing a collection of effects which together constitute the fetal alcohol syndrome. These include mental and physical retardation, disturbances of learning, motor and language deficiencies, behavioural disorders, and small size head.



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VIII. REACTIVITY DATA

<u>STABILITY</u>	<ul style="list-style-type: none"> Stable
<u>CONDITIONS TO AVOID</u>	<ul style="list-style-type: none"> Sources of ignition
<u>INCOMPATIBILITY</u>	<ul style="list-style-type: none"> Oxidizing materials
<u>HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS</u>	<ul style="list-style-type: none"> Burning can produce carbon monoxide and/or carbon dioxide.
<u>HAZARDOUS POLYMERIZATION</u>	<ul style="list-style-type: none"> Will not occur
<u>CONDITIONS TO AVOID</u>	<ul style="list-style-type: none"> None currently known

IX. SPILL OR LEAK PROCEDURES

<u>SPILL</u>	<ul style="list-style-type: none"> Contain spilled material. Provide adequate ventilation and protective equipment. Remove sources of heat, sparks or flames. Spill should be collected in suitable containers or absorbed on a suitable absorbent material for subsequent disposal.
<u>WASTE DISPOSAL</u>	<ul style="list-style-type: none"> Waste material should be disposed of in an approved incinerator or in a designated landfill site, in compliance with all federal, provincial and local government regulations.

X. SPECIAL PROTECTION INFORMATION

<u>RESPIRATORY EQUIPMENT</u>	<ul style="list-style-type: none"> Up to 1000 ppm, an approved organic vapour cartridge respirator can be used. For concentrations above 1000 ppm, an air-supplying respirator is recommended. The user should consult a respirator guide, such as the Canadian Standards Association's guide Z94.4-M1982.
<u>VENTILATION</u>	<ul style="list-style-type: none"> The ventilation system should be non-sparking, grounded and separate from other exhaust ventilation systems. Local ventilation is recommended when handling.
<u>PROTECTIVE GLOVES</u>	<ul style="list-style-type: none"> Neoprene, butyl or natural rubber.
<u>EYE PROTECTION</u>	<ul style="list-style-type: none"> Chemical resistant monogoggles when handling
<u>OTHER PROTECTIVE EQUIPMENT</u>	<ul style="list-style-type: none"> Eye bath, safety shower and other protective equipment as required.



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XI. SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

- Keep away from heat, sparks and flames.
- Keep container closed when not in use.
- Use with adequate ventilation.
- Avoid breathing vapours.
- Avoid contact with eyes and skin.
- Wash exposed skin thoroughly after handling.
- Take precautions to prevent static electricity build-up when transferring contents.

OTHER PRECAUTIONS

- Good personal hygiene practices are suggested, such as abstaining from eating, drinking and smoking in the workplace.

XII. MSDS PREPARATION

PREPARED BY: Saffire Blue Inc

PHONE NUMBER: 519-286-0295

DATE: August 5, 2014

SAFFIRE BLUE INC URGES EACH CUSTOMER OR RECIPIENT OF THIS MSDS TO STUDY IT CAREFULLY TO BECOME AWARE OF AND UNDERSTAND THE HAZARDS ASSOCIATED WITH THE PRODUCT. THE READER SHOULD CONSIDER CONSULTING REFERENCE WORKS OR INDIVIDUALS WHO ARE EXPERTS IN VENTILATION, TOXICOLOGY OR FIRE PREVENTION, AS NECESSARY OR APPROPRIATE TO USE AND UNDERSTAND THE DATA CONTAINED IN THIS MSDS.

TO PROMOTE SAFE USE AND HANDLING OF THIS PRODUCT, EACH CUSTOMER OR RECIPIENT SHOULD

- (1) NOTIFY EMPLOYEES, AGENTS, CONTRACTORS AND OTHERS WHO MAY USE THIS MATERIAL, OF THE INFORMATION IN THIS MSDS AND ANY OTHER INFORMATION REGARDING HAZARDS OR SAFETY,
- (2) FURNISH THIS SAME INFORMATION TO EACH CUSTOMER FOR THE PRODUCT, AND
- (3) REQUEST CUSTOMERS TO NOTIFY THEIR EMPLOYEES, CUSTOMERS, AND OTHER USERS OF THE PRODUCT OF THIS INFORMATION.