

PRODUCT NAME:	PROPRIETARY SOLVENT GENERAL USE FORMULA	Page 1 of 6
	(SDA-1 200 PROOF PLUS RUBBER HYDROCARBON SOLVENT PLUS MIBK PLUS ETHYL ACETATE)	
MSDS NO:	PROPSOLGU1	EFFECTIVE DATE: February 1, 2011

MANUFACTURED BY: **Commercial Alcohols**

Bruce Energy Centre	275 Bloomfield Road	2 Chelsea Lane
4th Concession	Chatham,	Brampton, Ontario
Tiverton, Ontario	Ontario	L6T 3Y4
N0G 2T0	N7M 5J5	

EMERGENCY PHONE NUMBER: CANUTEC (613) 996-6666
NON-EMERGENCY INFORMATION PHONE NUMBER: (905) 790-7500

TRANSPORTATION

PRIMARY CLASS:	3	CLASS NAME: FLAMMABLE LIQUID	UN#: 1986
SUBSIDIARY CLASS:	6.1		
SHIPPING NAME:	Alcohols, Flammable, Toxic, N.O.S. (ETHANOL)		

I. EMERGENCY AND FIRST AID PROCEDURE

<u>INGESTION</u>	<ul style="list-style-type: none"> • Never give anything by mouth if victim is rapidly losing consciousness or is unconscious or convulsing. • DO NOT INDUCE VOMITING. • Have victim drink about 250ml (8fl. oz.) of water to dilute material in stomach. • If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. • Seek medical assistance immediately.
<u>SKIN</u>	<ul style="list-style-type: none"> • Flush contaminated area with water for at least 20 minutes. • Remove contaminated clothing under running water. • Completely decontaminate clothing before re-use, or discard. • If irritation occurs seek medical attention.
<u>INHALATION</u>	<ul style="list-style-type: none"> • Remove victim to fresh air. • Artificial respiration should be given if breathing has stopped and cardiopulmonary resuscitation if heart has stopped. • Oxygen may be given if necessary. • Seek medical attention immediately.
<u>EYES</u>	<ul style="list-style-type: none"> • Immediately flush eyes with water for at least 20 minutes, holding the eyelids open. • Seek medical attention immediately.
<u>NOTES TO PHYSICIAN</u>	<ul style="list-style-type: none"> • This product contains 3.7 % v/v of methanol, a toxic substance having produced blindness and other serious effects on vision, as well as death. However, this product also contains the accepted antidote, ethanol (92.6% v/v). • This product also contains 1.85% methyl isobutyl ketone, 0.93% rubber hydrocarbon solvent, and 0.93% ethyl acetate.

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.

PRODUCT NAME: PROPRIETARY SOLVENT GENERAL USE FORMULA Page 2 of 6
(SDA-1 200 PROOF PLUS RUBBER HYDROCARBON SOLVENT PLUS MIBK PLUS ETHYL ACETATE)
MSDS NO: PROPSOLGU1 EFFECTIVE DATE: February 1, 2011

II. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT,
°C

- 12 (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)	AUTOIGNITION POINT, °C
		LOWER	UPPER			
(1) Ethyl Alcohol	92.6	3.3	19.0	5.87	1.6	422
(2) Methanol	3.7	7.3	36.0	12.80	1.1	385
(3) Methyl Isobutyl ketone	1.85	1.3	8	0.7	3.5	Not available
(4) Rubber hydro carbon solvent	0.925	1 approx.	7 approx.	12	3.3	Not available
(5) Ethyl acetate	0.925	2.2	11.5	9.73	3	427

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	ETHANOL, METHANOL, METHYL ISOBUTYL KETONE, HYDROCARBONS, ETHYL ACETATE	CHEMICAL FAMILY	ALCOHOLS, KETONES, ACETATES, HYDROCARBONS
FORMULA	(1) CH ₃ - CH ₂ - OH	MOLECULAR WEIGHT	(1) 46.07
SYNONYMS	• None		
USE	• Laboratory reagent chemical, general solvent		

PRODUCT NAME: PROPRIETARY SOLVENT GENERAL USE FORMULA Page 3 of 6
(SDA-1 200 PROOF PLUS RUBBER HYDROCARBON SOLVENT PLUS MIBK PLUS ETHYL ACETATE)
MSDS NO: PROPSOLGU1 EFFECTIVE DATE: February 1, 2011

IV. PHYSICAL DATA

BOILING POINT, °C at 760mm Hg	Lowest known for component is 64.6 (methanol)
FREEZING POINT, °C	Not Available
DENSITY, kg/L @ 20°C	0.79
COEFFICIENT OF WATER/OIL DISTRIBUTION	Separates from oil
pH	Not Applicable
DISTILLATION RANGE, °C	64.6 to 135
MISCIBILITY IN WATER	Partial
% VOLATILES BY VOLUME	100
EVAPORATION RATE (butyl acetate = 1)	1.7

APPEARANCE AND ODOUR

- Colourless liquid with typical lower alcohol plus ketone plus hydrocarbon solvent odour.

V. INGREDIENTS AND TOXICOLOGICAL DATA

INGREDIENT	% V/V	CAS NO.	TLV, ppm	LC50, ppm/4h. RAT, INHAL.	LD50, mg/kg RAT, ORAL	LD50, mg/kg RABBIT, SKIN
(1) Ethyl Alcohol	92.6	64-17-5	1000	31,623	7,060	20,000
(2) Methanol	3.7	100-52-7	200	64,000	5,628	20,000
(3) Methyl Isobutyl ketone	1.85	108-10-1	50	N/A	2,080	720,000
(4) Rubber hydrocarbon solvent	0.925	Mixture- primarily 100-54-3	Mixture approx. 350	Mixture- not available	Mixture- not available	Mixture- not available
(5) Ethyl acetate	0.925	141-78-6	400	22,627	11,300	Not available

REFERENCES

ACGIH (1988-1989), RTECS (1983).

VI. WHMIS CLASSIFICATION AND SYNERGISTIC MATERIALS

WHMIS CLASSIFICATION

- Flammable liquid, very toxic material (methanol), eye irritant.

SYNERGISTIC MATERIALS

- Ethanol with carbon tetrachloride, chloroform, bromotrichloromethane, dimethylnitrosamine, thioacétamide, methanol with carbon tetrachloride and MIBK with n-hexane, methyl n-butyl ketone.

PRODUCT NAME:	PROPRIETARY SOLVENT GENERAL USE FORMULA	Page 4 of 6
	(SDA-1 200 PROOF PLUS RUBBER HYDROCARBON SOLVENT PLUS MIBK PLUS ETHYL ACETATE)	
MSDS NO:	PROPSOLGU1	EFFECTIVE DATE: February 1, 2011

VII. HEALTH HAZARD DATA

<u>INGESTION</u>	<ul style="list-style-type: none"> • Contains methanol, a toxic substance which upon ingestion has produced blindness and death. • 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"> • Methanol can be absorbed by the skin in lethal and toxic amounts.
<u>INHALATION</u>	<ul style="list-style-type: none"> • Irritation of the nose, throat and eyes will begin at ~200 ppm MIBK. • Inhalation of high concentrations can produce dizziness, faintness, drowsiness, nausea and vomiting. • Symptoms depend on the level and duration of exposure.
<u>SKIN CONTACT</u>	<ul style="list-style-type: none"> • Mild irritant. • Repeated or prolonged exposure may lead to dermatitis, erythema and scaling.
<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 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.

PRODUCT NAME: **PROPRIETARY SOLVENT GENERAL USE FORMULA** Page 5 of 6
(SDA-1 200 PROOF PLUS RUBBER HYDROCARBON SOLVENT PLUS MIBK PLUS ETHYL ACETATE)
MSDS NO: **PROPSOLGU1** EFFECTIVE DATE: February 1, 2011

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 PROTECTION</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.

PRODUCT NAME: PROPRIETARY SOLVENT GENERAL USE FORMULA Page 6 of 6
(SDA-1 200 PROOF PLUS RUBBER HYDROCARBON SOLVENT PLUS MIBK PLUS ETHYL ACETATE)
MSDS NO: PROPSOLGU1 EFFECTIVE DATE: February 1, 2011

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 Alcohol Quality Assurance, Technical Services and Regulatory Affairs Department

PHONE NUMBER (905) 790-7500

DATE: February 1, 2011

COMMERCIAL ALCOHOLS 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.