SAFETY DATA SHEET

Product Name: Plus Alcohol 100%

Product Code: 7100-1

1. IDENTIFICATION OF SUBSTANCE / MIXTURE AND OF SUPPLIER

Product Identifier: Custom Blend

Synonyms: StatLabs Alcohol Blend

Other means of identification: UN1987

Recommended use of the chemical and restrictions on use:

Histology, Cytology, and General Use Reagent

Supplier Details:

StatLab Medical Products
2090 Commerce Dr
McKinney, TX 75069
USA
Tel: 972.436.1010
Fax: 972.436.1369

Emergency Contact: **CHEMTREC: 1.800.424.9300 (USA) / +1.703.527.3887 (International)**

2. HAZARDS IDENTIFICATION

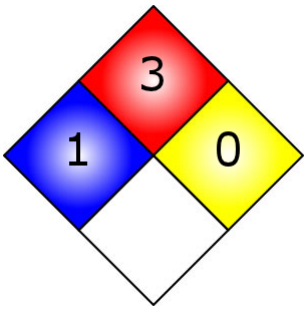
OSHA Hazards:

Flammable liquid, Irritant, Target organ effect, Toxic by ingestion, Toxic by skin absorption

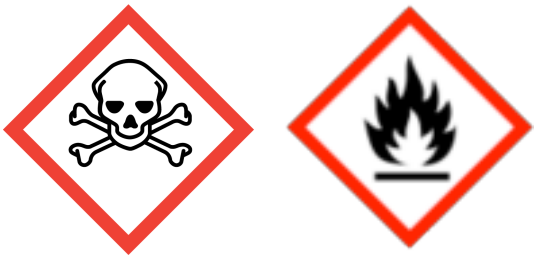
Target Organs:

Central nervous system, Eyes, Kidney, Liver

NFPA



GHS label elements, including precautionary statements



Signal Word:
DANGER!

Hazard statement(s)

H225	Highly flammable liquid and vapor.
H301 + H311	Toxic if swallowed or in contact with skin.
H315	Causes skin irritation.
H331	Toxic if inhaled

Precautionary statement(s)

P263	Avoid contact during pregnancy/while nursing.
P501	Dispose of contents and container to an approved waste disposal plant.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P270	Do not eat, drink or smoke when using this product.
P240	Ground/bond container and receiving equipment.
P307 + P311	IF exposed: Call a POISON CENTER or doctor/ physician.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P303 + P361 + P353	IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or a doctor/ physician.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

P210	Keep away from heat, sparks, open flames, and hot surfaces. No smoking.
P233	Keep container tightly closed.
P322	Specific measures (see first aid measures on this label)
P321	Specific treatment (see supplemental first aid instructions on this label).
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.
P243	Take precautionary measures against static discharge.
P241	Use explosion-proof electrical, ventilating, and lighting equipment.
P242	Use only non-sparking tools.
P271	Use only outdoors or in a well-ventilated area.
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves and eye and face protection.

GHS Classification(s)
Acute Toxicity, Dermal (Category 3)
Acute Toxicity, Inhalation (Category 3)
Acute Toxicity, Oral (Category 3)
Flammable Liquids (Category 2)
Specific target organ toxicity - single exposure (Category 1)
Specific target organ toxicity - single exposure (Category 2)

Other hazards which do not result in classification:

Potential Health Effects:

Organ	Description
Eyes	Causes eye irritation.
Ingestion	Toxic if swallowed.
Inhalation	Can be harmful, causing irritation to the respiratory tract, if inhaled.
Skin	Toxic if absorbed through skin. Irritating to the skin.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical identity:	Plus 100% Alcohol
Common name / Synonym:	Methanol, Methyl Alcohol; Isopropanol, Isopropyl Alcohol
CAS number:	N/A
EINECS number:	N/A
ICSC number:	N/A
RTECS #:	N/A
UN #:	1987
EC #:	N/A

% Weight	Material	CAS
60	Isopropyl Alcohol	67-63-0
40	Methyl Alcohol	67-56-1

4. FIRST AID MEASURES

General advice

Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid. Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Skin

Wash skin with soap and copious amounts of water. Seek medical attention.

Inhalation

Remove person to fresh air. If signs/symptoms continue, get medical attention. Give oxygen or artificial respiration as needed.

Eyes

Thoroughly flush the eyes with large amounts of clean low-pressure water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation persists, seek medical attention.

Ingestion

DO NOT induce vomiting. If vomiting does occur, have victim lean forward to prevent aspiration. Rinse mouth with water. Seek medical attention. Never give anything by mouth to an unconscious individual.

5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:

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

Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products):

Carbon oxides expected to be the primary hazardous combustion product.

Special protective equipment and precautions for firefighters:

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Keep unopened containers cool by spraying with water.

Flammable Properties

Classification

OSHA/NFPA Class IB Flammable Liquid.

Flash point

11 °C (52 °F) - Closed Cup

Autoignition temperature

399 °C (750 °F)

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Wear respiratory protection. Do not inhale vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental precautions:

Stop leak. Contain spill if possible and safe to do so. Prevent product from entering drains.

Methods and materials for containment and cleaning up:

Contain spill, then collect with an electrically protected vacuum cleaner or by wet-brushing and put the material into a convenient waste disposal container. Keep container closed.

7. HANDLING AND STORAGE

Precautions for safe handling:

Do not get on skin or in eyes. Do not inhale vapor or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the buildup of electrostatic charge.

Conditions for safe storage, including any incompatibilites:

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters, e.g., occupational exposure limit values or biological limit values:

Occupational Exposure Limits

Component	Source	Type	Value	Note
Isopropyl Alcohol	US(ACGIH)	STEL	400 ppm	
Isopropyl Alcohol	US (ACGIH)	TWA	200 ppm	
Isopropyl Alcohol	US (OSHA)	TWA	400 ppm	
Methyl Alcohol	US (ACGIH)	STEL	250 ppm	
Methyl Alcohol	US (OSHA)	TWA	200 ppm	
Methyl Alcohol	US (ACGIH)	TWA	200 ppm	

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.

Individual protection measures, such as personal protective equipment:

Respiratory protection:

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection:

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection:

Use chemical safety goggles and/or a full face shield where splashing is possible. Use equipment approved by appropriate government standards, such as NIOSH (US) or EN166 (EU) Maintain eye wash fountain and quick-drench facilities in work area.

Skin and body protection:

Wear impervious, flame retardant, antistatic protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance *(physical state, color, etc.)*	Liquid. Colorless, clear.
Odor	Specific data not available
Odor threshold	Specific data not available
pH	5.0 - 7.0
Freezing point	-113 °C (-173 °F)
Initial boiling point and boiling range	78.3 °C (173 °F)
Flash point	11 °C (52 °F) - Closed Cup
Evaporation rate	Specific data not available
Flammability (solid, gas)	Flammable
Upper / Lower flammability or explosive limits	Upper: 36.0% (V)
Vapor pressure	97 mmHg at 20 °C (MeOH)
Vapor Density	1.59
Relative Density	0.79 g/mL at 25 °C
Solubility(ies)	Completely Miscible
Partition coefficient n-octanol/water(ies)	Specific data not available
Auto-ignition temperature	399 °C (750 °F)
Decomposition temperature	Specific data not available

Formula (ISOPROPYL ALCOHOL)	C3H8O
Formula (METHYL ALCOHOL)	CH4O
Molecular Weight (ISOPROPYL ALCOHOL)	60.1 g/mol
Molecular Weight (METHYL ALCOHOL)	32.04 g/mol

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapors may form explosive mixture with air.
Conditions to avoid (e.g., static discharge, shock or vibration)	Heat, flames, and sparks. Extreme temperatures and direct sunlight.
Incompatible materials	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products	Carbon oxides are expected to be, under fire conditions, the primary hazardous decomposition products.

11. TOXICOLOGICAL INFORMATION

Methyl Alcohol 67-56-1

Product Summary:
Classification of teratogenicity or reproductive toxicity cannot be determined with available data for this product. No data available to designate the product as causing specific target organ toxicity through repeated exposure. No data available to designate product as an aspiration hazard.

Acute Toxicity:

LC50 Inhalation	Rat	128.2 mg/L	4 h
LC50 Inhalation	Rat	87.6 mg/L	6 h
LD50 Dermal	Rabbit	17,100 mg/kg	
LD50 Oral	Rat	1,187 -2,769 mg/kg	
LDlo Oral	Human	143mg/kg	Signs and symptoms of dyspnea and gastrointestinal disturbances such as nausea, vomiting, and diarrhea.

Irritation:

Eyes
Rabbit - no eye irritation

Respiratory or Skin Sensitization
Maximization Test - Guinea Pig - Sensitization not displayed in laboratory animals when following OECD Test Guideline 406.

Skin
No data available

Germ cell mutagenicity
Genotoxicity in vitro - in vitro assay - S. typhimurium - with and without metabolic activation - negative

Specific target organ toxicity - single exposure (Globally Harmonized System)
May cause damage to organs

Carcinogenicity
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable or confirmed human carcinogen by IARC.
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Other Hazards

Organ	Description
Eyes	Direct contact with the eyes produces a mild, reversible irritation, assuming treatment is initiated promptly.
Ingestion	Toxic. Can be fatal or cause blindness through ingestion. Ingestion may cause gastrointestinal disturbances such as nausea, vomiting, and diarrhea.
Inhalation	Toxic by inhalation. Vapor harmful. Can cause irritation to the respiratory tract.
Skin	Toxic in contact with skin. Irritating to skin.

Isopropyl Alcohol 67-63-0

Product Summary:
Long-term exposure (2 years) to Isopropyl Alcohol via inhalation at concentrations up to 5000 ppm caused no exposure related increases in tumors in animals. No data available for the teratogenicity, mutagenicity, or reproductive toxicity of this product. No data available to designate the product as causing specific target organ toxicity through repeated exposure. No data available to designate product as an aspiration hazard.

Acute Toxicity:

LC50 Inhalation	Rat	16,000 mg/kg	8 hours
LD50 Dermal	Rabbit	12,800 mg/kg	
LD50 Oral	Rat	5045 mg/kg	Behavioral abnormalities observed such as altered sleep time and decreased activity.

Irritation:
Eyes

Rabbit - Irritating to eyes - 24 hours

Eyes (ISOPROPANOL)
Mildly irritating to the eye at an airborne concentration of 400 ppm, unpleasant at 800 ppm.

Respiratory or Skin Sensitization
No data available

Skin
Rabbit- mild skin irritation

Specific target organ toxicity - single exposure (Globally Harmonized System)
Inhalation - May cause drowsiness or dizziness. - Central Nervous System

Carcinogenicity
IARC: Group 3: Not classifiable as to its carcinogenicity to humans.
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Other Hazards

Organ	Description
Eyes	Produces irritation, characterized by a burning sensation, redness, tearing, inflammation, and possible corneal injury. May cause transient corneal injury
Ingestion	Causes gastrointestinal irritation with nausea, vomiting and diarrhea. May cause kidney damage. May cause central nervous system depression, characterized by excitement, followed by headache, dizziness, drowsiness, and nausea. Advanced stages may cause collapse, unconsciousness, coma and possible death due to respiratory failure.
Inhalation	Inhalation of high concentrations may cause central nervous system effects characterized by nausea, headache, dizziness, unconsciousness and coma. May cause narcotic effects in high concentration. Causes upper respiratory tract irritation. Inhalation of vapors may cause drowsiness and dizziness. Aspiration of material into the lungs may cause chemical pneumonitis, which may be fatal. The probable oral lethal dose in humans is 240 ml (2696 mg/kg), but ingestion of only 20 ml (224 mg/kg) has caused poisoning.
Skin	May cause irritation with pain and stinging, especially if the skin is abraded. Isopropanol has a low potential to cause allergic skin reactions; however, rare cases of allergic contact dermatitis have been reported. May be absorbed through intact skin. Dermal absorption has been considered toxicologically insignificant.
Chronic	Prolonged exposure can be irritating to mucous membranes, skin, and the respiratory system. Can cause liver and kidney damage.

12. ECOLOGICAL INFORMATION

- Isopropyl Alcohol 67-63-0

Ecotoxicity (aquatic and terrestrial, where available):
Acute Fish Toxicity (ISOPROPANOL)
LC50 / 96 hours Pimephales promelas: 9,640 mg/L

Toxic to Daphnia and Other Aquatic Invertebrates
EC50 / 24 h / Water Flea - 5,102 mg/L

Toxicity to Aquatic Plants (ISOPROPANOL)
EC50 / 72 hours Desmodesmus subspicatus > 2,000 mg/L

Toxicity to Daphnia and other aquatic invertibrates
Immobilization EC50 / 24h / Water flea - 6,851 mg/L

Persistence and degradability:
No data available

Bioaccumulative potential:
No data available

Other adverse effects:
No data available

- Methyl Alcohol 67-56-1

Ecotoxicity (aquatic and terrestrial, where available):
Acute Fish Toxicity (METHANOL)
LC50 / 96 hours Lepomis macrocirus: 15,400 mg/L / LC50 / 96 hours Fathead minnow: 29,400 mg/L

Toxicity to Aquatic Plants (METHANOL)
EC50 / 96 hours Scenedesmus capricornutum: 22,000 mg/L

Toxicity to daphnia and other aquatic invertebrates
EC50/ 48 hours / Water flea - > 10,000.00 mg/L

Persistence and degradability:
72% - Readily biodegradable.

Bioaccumulative potential:
Bioaccumulation: Carp / 72d / BCF: 1.0

Other adverse effects:
BOD: 600 mg/g - 1120 mg/g COD: 1420 mg/g

13. DISPOSAL CONSIDERATIONS

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:

Vapors may collect in empty containers. Treat empty containers as hazardous. Dispose of spill-clean up and other wastes in accordance with federal, state, and local regulations.

14. TRANSPORT INFORMATION

Description of waste residues and information on their safe handling and methods of disposal:

UN number	1987
UN proper shipping name	Alcohols, N.O.S. (Isopropanol, Methanol)
Transport hazard class(es)	3
Packing group *(if applicable)*	II

IMDG
UN-Number: 1987 Class: 3 Packing Group: II
EMS-No: F-E, S-D
Proper shipping name: Alcohols, N.O.S. (Methanol, Isopropanol)
Marine pollutant: No
IATA
UN-Number: 1987 Class: 3 Packing Group: II
Proper shipping name: Alcohols, N.O.S. (Isopropanol, Methanol)

15. REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product in question:

OSHA Hazards
Flammable liquid, Irritant, Target organ effect, Toxic by ingestion, Toxic by skin absorption

All ingredients are on the following inventories or are exempted from listing

Country	Notification

Australia	AICS
Canada	DSL
China	IECS
European Union	EINECS
Japan	ENCS/ISHL
Korea	ECL
New Zealand	NZIoC
Philippines	PICCS
United States of America	TSCA

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

SARA 313 Components
The following components are subject to reporting levels established by SARA title III, Section 313: METHANOL (CAS# 67-56-1) Revision date 2007-07-01.

SARA 311/312 Hazards
Acute Health Hazard
Chronic Health Hazard
Fire Hazard

CERCLA
No chemicals in this material with known CAS numbers are subject to the reporting requirements of CERCLA

Massachusetts Right To Know Components
Isopropyl Alcohol CAS-No. 67-63-0 Revision Date 1987-01-01

Methanol CAS-No.67-56-1 Revision Date 2007-07-01

Pennsylvania Right To Know Components
Isopropyl Alcohol CAS-No. 67-63-0 Revision Date 1987-01-01

Methanol CAS-No.67-56-1 Revision Date 2007-07-01

New Jersey Right To Know Components
Isopropyl Alcohol CAS-No. 67-63-0 Revision Date 1987-01-01

Methanol CAS-No.67-56-1 Revision Date 2007-07-01

California Prop 65 Components
WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. METHANOL CAS-No. 67-56-1 Revision Date 2012-03-16

16. OTHER INFORMATION:
INCLUDING INFORMATION ON PREPARATION AND REVISION OF THE SDS

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