

#### SYDNEY SOLVENTS PTY LTD.

3/10 Production Place Jamisontown NSW 2750 www.sydneysolvents.com.au

CHEMCALL: 1800 127 406

# FOR FURTHER INFORMATION, PLEASE REFER TO THE SDS

Issue: November 16

PRODUCT: Ethanol Perfume Grade 95 PGF4
Other Names: t-Butanol/Ethanol mix; F4 Stock Solution

UN No. 1987

Dangerous Goods Class 3

Subsidiary Risk None

Pack Group II

Hazchem • 3YE

Physical Characteristics (Typical)

**Section 9 of SDS** 

Appearance Clear, colourless liquid

Boiling Point/ Range (°C): 78 - 83
Flash Point (°C): 11 -14

Specific Gravity/ Density (g/ml @ 15°C): 0.8 Approx.

Product Ingredients		Section 3 of SDS
CHEMICAL ENTITY	CAS NO.	PROPORTION
t- Butonal	75-65-0	85%
Ethanol	64-17-5	15%
		100%

GHS Pictograms Section 2 of SDS





# For further Risk and Safety information, please refer to the full SDS.

<u>DEFINITIONS</u>	
Dangerous Goods	Products that are classified as Dangerous for Storage and Transport: these products are allocated a UN No., with accompanying Class, Pack Group, and Sub. Risk, if required. Products that do not have a specific description under the code, but have low flash points, or such, must be classified under their most significant risk, eg. Flammable Goods N.O.S. (Not otherwise specified), UN 1993
Poisonous Substance	Products that are classified under the poisons schedule are a poisonous substance. The proportion of the poison in the product will determine its numerical classification.
Hazardous Substance	Products are considered to be Hazardous if they pose an intrinsic risk to human or environmental health, such as mutagens (able to change DNA), teratogens (able to result in birth defects), carcinogens (able to generate cell abnormalities), etc. Materials are not hazardous substances if they pose risks such as potential for misuse, like flammability, or explosions when heated and ignited.

# Safety Data Sheet

# 1. IDENTIFICATION

Product Name: Ethanol Perfume Grade 95 PGF4

Other Names: t-Butanol/Ethanol mix; F4 Stock Solution

Chemical Family: Alcohols

Recommended Use: Industrial solvent, cleaning component

**Supplier:** Sydney Solvents Pty. Ltd.

**ABN:** 51 104 642 695

Street Address: 3/10 Production Place, Jamisontown NSW 2750

**Telephone:** 02 4722 5060 **Fax:** 02 4722 5070

Emergency phone: CHEMCALL: 1800 127 406

**All other inquiries:** 1800 60 50 40

## 2. HAZARDS IDENTIFICATION

This material is hazardous according to criteria of Safe Work Australia.



#### Signal Word

Danger

#### **Hazard Classification**

Flammable Liquids - Category 2

Acute Toxicity - Inhalation - Category 4 Serious Eye Damage/Irritation - Category 2A

Specific Target Organ Toxicity (Single Exposure) - Category 3

### Hazard Statement(s)

H225 Highly flammable liquid and vapour H319 Causes serious eye irritation

H332 Harmful If Inhaled

H335 May cause respiratory irritation

### **Prevention Precautionary Statement(s)**

P102 Keep out of reach of children. P103 Read label before use.

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 and all other equipment. P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge. P261 Avoid breathing mist, vapours or spray.

P264 Wash hands, face and all exposed skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective clothing, gloves, eye/face protection and suitable respirator.

### Response Precautionary Statement(s)

P101 If medical advice is needed, have product container or label at hand. P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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.

P370+P378 In case of fire: Use alcohol resistant foam, standard foam or dry agent for extinction.

### Storage Precautionary Statement(s)

P405 Store locked up

P403+235 Store in a well ventilated place. Keep cool.

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### **Disposal Precautionary Statement(s)**

P501 Dispose of contents/container in accordance with local, regional, national and international regulations

Poisons Schedule (Aust): Not applicable

#### DANGEROUS GOODS CLASSIFICATION

Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

Class: 3 Flammable Liquid

# 3. COMPOSITION: Information on Ingredients

CHEMICAL ENTITY	CAS NO.	PROPORTION
t- Butonal	75-65-0	85%
Ethanol	64-17-5	15%
		100%

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## 4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

Inhalation: Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. If breathing laboured and patient cyanotic (blue), ensure airways are clear and have a qualified person give oxygen through a facemask. If breathing has stopped apply artificial respiration at once. In the event of cardiac arrest, apply external cardiac massage. Seek immediate medical advice.

Skin contact: For gross contamination, immediately drench with water and remove clothing. Continue to flush skin and hair with plenty of water (and soap if material is insoluble). For skin burns, cover with a clean, dry dressing until medical help is available. If blistering occurs, do NOT break blisters. If swelling, redness, blistering, or irritation occurs seek medical assistance.

Eye contact: If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a Doctor; or for at least 15 minutes and transport to Doctor or Hospital.

Ingestion: Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.

PPE for First Aiders: Wear overalls, chemical goggles and impervious gloves. Use with adequate ventilation. If inhalation risk exists wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Notes to physician: Treat symptomatically.

## 5 FIRE FIGHTING MEASURES

Hazchem Code: •3YE

Suitable extinguishing media: If material is involved in a fire use alcohol resistant foam, standard foam or dry agent (carbon dioxide, dry chemical powder).

Specific hazards: Flammable liquid. May form flammable vapour mixtures with air. Flameproof equipment necessary in area where this chemical is being used. Nearby equipment must be earthed. Electrical requirements for work area should be assessed according to AS3000. Vapour may travel a considerable distance to source of ignition and flash back. Avoid all ignition sources. All potential sources of ignition (open flames, pilot lights, furnaces, spark producing switches and electrical equipment etc) must be eliminated both in and near the work area. Do NOT smoke.

Fire fighting further advice: If safe to do so, remove containers from path of fire. Keep containers cool with water spray. On burning may emit toxic fumes, including those of carbon dioxide and carbon monoxide. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

# 6. ACCIDENTAL RELEASE MEASURES

Emergency Procedure: Shut off all possible sources of ignition. Clear area of all unprotected personnel. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation.

Containment Procedure: If safe to do so, isolate the leak. Small spills are allowed to evaporate provided there is adequate ventilation. Contain - prevent run off into drains and waterways. If contamination of sewers or waterways has occurred advise local emergency services.

Clean Up Procedure: Cover with damp absorbent (inert material, sand or soil). Sweep or vacuum up, but avoid generating dust. Collect and seal in properly labelled containers or drums for disposal. Use a spark-free shovel.

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## 7. HANDLING AND STORAGE

Handling: Avoid skin and eye contact and inhalation of vapour, mist or aerosols.

**Storage:** Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Store away from sources of heat or ignition. Keep containers closed when not in use - check regularly for leaks.

This material is classified as a Dangerous Good Class 3 Flammable Liquid as per the criteria of the Australian Dangerous Goods Code and must be stored in accordance with the relevant regulations.

## EXPOSURE CONTROLS: PERSONAL PROTECTION

National occupational exposure limits: No value assigned for this specific material by Safe Work Australia. However for:

	TV	WA	S	ΓEL	CARCINOGEN	NOTICES
	ppm	mg/m3	ppm	mg/m3	CATEGORY	
Ethanol	1000	1880	-	-	-	-
t-Butanol	100	303	150	455	-	-

As published by Safe Work Australia.

TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

STEL (Short Term Exposure Limit) - the average airborne concentration over a 15-minute period, which should not be exceeded at any time during a normal eight-hour workday.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept too as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

Biological Limit Values: As per the "National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)" the ingredients in this material do not have a Biological Limit Allocated.

Engineering measures: Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use only in well ventilated areas. Use with local exhaust ventilation or while wearing appropriate respirator. Vapour heavier than air - prevent concentration in hollows or sumps. DO NOT enter confined spaces where vapour may have collected. Keep containers closed when not in use.

Personal protection equipment: OVERALLS, SAFETY SHOES, CHEMICAL GOGGLES, GLOVES, RESPIRATOR.

Wear overalls, chemical goggles and impervious gloves. Use with adequate ventilation. If inhalation risk exists wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS

Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Hygiene measures: Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid skin and eye contact and inhalation of vapour, mist or aerosols. Ensure that eyewash stations and safety showers are close to the workstation location.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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App	earance:	Colourless liquid		
Odo	our:	Camphor-like odour		
pН,	at stated concentration:	Not Available		
Vap	our Pressure:	4 - 5.9 kPa @ 20°C		
Vap	our Density (air=1):	1.59 - 2.6 (air = 1)		
Boil	ing Point/range (°C):	78 - 83		
Free	ezing/Melting Point (°C):	-117 - 26		
Solu	ubility:	Soluble in water		
Spe	cific Gravity:	0.8 Approx.		
FLA	MMABLE MATERIALS			
	Flash Point (°C):	11 - 14		
	Flash Point Method:	Closed cup		
	Flammable (Explosive) Limit - Upper:	8 - 19%		
	Flammable (Explosive) Limit - Lower:	2.3 - 3.5%		
	Autoignition Temperature (°C):	Not Available		
Add	Additional Properties			
	Evaporation Rate:	Not Available		
	Molecular Weight:	Not Available		
	Volatile Organic Compounds Content (VOC): (as specified by the Green Building Council of Australia)	Not Available		
	% Volatiles:	Not Available		

The values listed are indicative of this product's physical and chemical properties. For a full product specification, please consult the Product Data Sheet.

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# 10. STABILITY AND REACTIVITY

Reactivity: No reactivity hazards are known for the material.

Chemical stability: This material is thermally stable when stored and used as directed.

Hazardous reactions: No known hazardous reactions.

**Conditions to avoid:** Elevated temperatures and sources of ignition.

Incompatible materials: Oxidising agents.

Hazardous decomposition products: Carbon monoxide and carbon dioxide.

### 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

#### Acute Effects

**Inhalation:** Material is an irritant to mucous membranes and respiratory tract.

**Skin contact:** Contact with skin will result in irritation. Will have a degreasing action on the skin.

Repeated or prolonged skin contact may lead to irritant contact dermatitis.

**Ingestion:** Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.

Eye contact: An eye irritant.

### Acute toxicity

Inhalation: This material has been classified as a Category 4 Hazard.

Acute toxicity estimate (based on ingredients): >20 mg/L

Skin contact: This material has been classified as non-

hazardous. Acute toxicity estimate (based on ingredients): >2,000

mg/Kg

**Ingestion:** This material has been classified as non-hazardous.

Acute toxicity estimate (based on ingredients): >2,000 mg/Kg

Corrosion/Irritancy: Eye: this material has been classified as a Category 2A Hazard (reversible effects to

eyes).

Skin: this material has been classified as not corrosive or irritating to skin.

Sensitisation: Inhalation: this material has been classified as not a respiratory

sensitiser. Skin: this material has been classified as not a skin sensitiser.

Aspiration hazard: This material has been classified as non-hazardous.

**Specific target organ toxicity (single exposure):** This material has been classified as a Category 3 Hazard. Exposure via inhalation may result in respiratory irritation

### **Chronic Toxicity**

Mutagenicity: This material has been classified as non-hazardous.

Carcinogenicity: This material has been classified as non-hazardous.

Reproductive toxicity (including via lactation): This material has been classified as non-hazardous.

Specific target organ toxicity (repeat exposure): This material has been classified as non-hazardous.

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# 12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

**Acute aquatic hazard:** This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >100 mg/L

**Long-term aquatic hazard:** This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >100 mg/L

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Ecotoxicity: No information available.

Persistence and degradability: No information available.

Bioaccumulative potential: No information available.

Mobility: No information available.

# 13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

# 14. TRANSPORT INFORMATION

### ROAD AND RAIL TRANSPORT

Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

**UN No:** 1987

**Dangerous Goods Class:** 3 Flammable Liquid

Packing Group:

Hazchem Code:

\*3YE

Emergency Response Guide No: 14

Proper Shipping Name: ALCOHOLS N.O.S (T-BUTANOL, ETHANOL)

**Segregation Dangerous Goods:** Not to be loaded with explosives (Class 1), flammable gases (Class 2.1), if both are in bulk, toxic gases (Class 2.3), spontaneously combustible substances (Class 4.2), oxidising agents (Class 5.1), organic peroxides (Class 5.2) or radioactive substances (Class 7), however exemptions may apply.

**MARINE TRANSPORT** Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

**UN No:** 1987

**Dangerous Goods Class:** 3 Flammable Liquid

Packing Group:

Proper Shipping Name: ALCOHOLS N.O.S (T-BUTANOL, ETHANOL)

#### AIR TRANSPORT

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

**UN No**: 1987

Dangerous Goods Class: 3 Flammable Liquid

Packing Group:

Proper Shipping Name: ALCOHOLS N.O.S (T-BUTANOL, ETHANOL)

## 15. REGULATORY INFORMATION

**HSNO Approval Number and/or Group Standard:** Additives, Process Chemicals and Raw Materials (Flammable) Group Standard 2006; HSR002495

This material is not subject to the following international agreements:

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Montreal Protocol (Ozone depleting substances)
The Stockholm Convention (Persistent Organic Pollutants)
The Rotterdam Convention (Prior Informed Consent)

This material is subject to the following international agreements:

Basel Convention (Hazardous Waste)

• Organic solvents excluding halogenated solvents

International Convention for the Prevention of Pollution from Ships (MARPOL)

• Annex II - Noxious Liquid Substances carried in Bulk

This material/constituent(s) is covered by the following requirements:

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

## **16.** OTHER INFORMATION

**Reasons for Issue:** Upgrade to GHS SDS; Amalgamated supplier changes in all sections **Abbreviations**:

AICS: Australian Inventory of Chemical Substances

CAS Number: Chemical Abstracts Number

IARC: International Agency for Research on Cancer

NOHSC: National Occupational Health and Safety Council

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#### References:

- Supplier Safety Data Sheets
- http://chem.sis.nlm.nih.gov/chemidplus (November 15)
- <a href="http://hsis.ascc.gov.au/SearchHS.aspx">http://hsis.ascc.gov.au/SearchHS.aspx</a> (November 15)
- Ecotoxicology data: <a href="http://cfpub.epa.gov/ecotox/quick\_query.htm">http://cfpub.epa.gov/ecotox/quick\_query.htm</a> (November 15)
- Sax's Dangerous Properties of Industrial Materials, Richard J. Lewis Snr., pub. Canada (2000)

The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the writer's knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses, but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product. For further information, please contact Sydney Solvents Pty. Ltd.

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