

SECTION 1: Identification of the substance/ mixture and of the company/ undertaking**1.1 Product identifier**

Trade name: PURE SOUTH MULTIPURPOSE FOGGER SURFACE SANITISER & DISINFECTANT (AEROSOL)

1.2 Relevant identified uses of the substance or mixture and uses advised against

Fogger Surface Sanitiser & Disinfectant multi-purpose disinfectant for hard surfaces and spaces

Application of the substance / the mixture

Commercial / Industrial / Consumer / Household

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Botany Essentials Pty Ltd

39 Cranwell Street

Braybrook, Victoria 3019, Australia

Tel: +67 3 9317 9088

Poison Information Contact: Australia 13 11 26

Further information obtainable from: info@botanyessentials.com.au

Additional Info: See section 16 for your Emergency Number (Country Specific)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture: This material is hazardous according to health criteria of Safe Work Australia

Classification according to Regulation (EC) No 1272/2008

Flammable Aerosols - Category 1

Skin Corrosion/Irritation - Category 3

Serious Eye Damage/Irritation - Category 2B

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation

Hazard pictograms

GHS02



GHS07

Signal word Danger

Hazard statements

AUH044 Risk of explosion if heated under confinement

H225 Highly flammable liquid and vapour

H319 Causes serious eye irritation

Precautionary statements

P102 Keep out of reach of children

P103 Read label before use

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking





P211 Do not spray on an open flame or other ignition sources

- P251 Do not pierce or burn, even after use
- P264 Wash possible exposed body surfaces thoroughly after handling this product
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P303 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
- P361 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
- P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
- P410 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
- P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards**Results of PBT and vPvB assessment**

PBT: Not applicable. **vPvB:** Not applicable

SECTION 3: Composition/ information on ingredients**Dangerous components:**

CAS: 64-17-5 EINECS: 200-578-6 Reg.nr.: 01-2119457610-43	Ethanol	25-50%
	 · Flam. Liq. 2, H225;  Eye Irrit. 2, H319	
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21	Propane	10-30%
	 · Flam. Gas 1, H220; Press. Gas C, H280	
CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-32	Butane	10-30%
	 · Flam. Gas 1, H220; Press. Gas C, H280	
CAS: 27668-52-6	Quaternary ammonium compounds, Octadecylaminodimethyltrimethoxysilylpropylammoniumchloride	0.01-0.8%
	Flam. Gas 1, H220; Press. Gas C, H280	
	Ingredients determined to be non hazardous	Balance%

SECTION 4: First aid measures

Additional information: For the wording of the listed hazard phrases refer to section 16

4.1 Description of first aid measures

General information: Immediately remove any clothing soiled by the product

After inhalation: Supply fresh air; consult doctor in case of complaints

After skin contact: Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor

After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor

After swallowing: Wash mouth with water

If symptoms persist consult doctor

4.2 Most important symptoms and effects, both acute and delayed No further relevant information available

4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available

SECTION 5: Firefighting measures**5.1 Extinguishing media**

Suitable extinguishing agents: CO₂, sand, extinguishing powder. Do not use water

For safety reasons unsuitable extinguishing agents: Water, Water with full jet

5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire

5.3 Advice for firefighters

Protective equipment: Wear self-contained respiratory protective device
Additional information Cool endangered receptacles with water spray

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away

6.2 Environmental precautions:

Prevent seepage into sewage system, work pits and cellars. Do not allow to enter sewers/ surface or ground water

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation

6.4 Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment. See

Section 13 for disposal information

SECTION 7: Handling and storage**7.1 Precautions for safe handling** Keep receptacles tightly sealed**Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke. Protect against electrostatic charges.

Protect from heat.

Use explosion-proof apparatus / fittings and spark-proof tools.

7.2 Conditions for safe storage, including any incompatibilities**Storage:**

Requirements to be met by storerooms and receptacles: Store in a cool location

Information about storage in one common storage facility: Not required

Further information about storage conditions:

Keep container tightly sealed

Store in cool, dry conditions in well-sealed receptacles

7.3 Specific end use(s) See §1.2

Additional information about design of technical facilities: No further data, see item 7.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:****64-17-5 ethanol**

WEL	Long-term value: 1880 mg/m ³ , 1000 ppm
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106-97-8 butane

WEL	Short-term value: 1810 mg/m ³ , 750 ppm
	Long-term value: 1450 mg/m ³ , 600 ppm Carc (if more than 0.1% of buta-1.3-diene)

DNELs**64-17-5 ethanol**

Oral	DNEL Long-term - Systemic (consumer)	87 mg/kg bw/day (/)
Dermal Inhalative	DNEL Long-term - Systemic (worker)	343 mg/kg bw/day (/)
	DNEL Long-term - Systemic (consumer)	206 mg/kg bw/day (/)
	DNEL Acute - local (worker)	1,900 mg/m ³ (/)

	DNEL Long-term - Systemic (worker)	950 mg/m ³ (/)
	DNEL Acute - Local (consumer)	950 mg/m ³ (/)
	DNEL Long-term - Systemic (consumer)	114 mg/m ³ (/)

PNECs**64-17-5 ethanol**

PNEC Fresh water	0.96 mg/l (/)
PNEC Marine water	0.79 mg/l (/)
PNEC Intermittent releases	2.75 mg/l (/)
PNEC Fresh water sediment	3.6 mg/kg (/)
PNEC Marine sediment	2.9 mg/kg (/)
PNEC Soil	0.63 mg/kg (/)
PNEC STP	580 mg/l (/)

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Personal protective equipment: SAFETY SHOES, OVERALLS

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals. Wash hands before breaks and at the end of work.

Respiratory protection: Not required.

Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

EN374

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

EN 166



Tightly sealed goggles

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

General Information Appearance: Form: Colour:	Aerosol Colourless
Odour:	Recognisable
Odour threshold:	Not determined
pH-value:	7-9

Change in condition Melting point/freezing point: Initial boiling point and boiling range:	Undetermined 78 °C
Flash point:	<21 °C
Flammability (solid, gas):	Not applicable
Auto-ignition temperature:	363 °C
Decomposition temperature:	Not determined
Auto-ignition temperature:	Product is not self-igniting
Explosive properties:	Product is not explosive. However, formation of explosive air/ vapour mixtures are possible
Explosion limits: Lower: Upper:	Vol % 15 Vol %
Vapour pressure at 20 °C:	8,300 hPa
Density: at 20 °C:	0.75
Relative density	Not determined
Vapour density	Not determined
Evaporation rate	Not determined
Solubility in / Miscibility with water:	Not miscible or difficult to mix
oxidizing properties	Not determined
Partition coefficient: n-octanol/water:	Not determined
Viscosity: Dynamic: Kinematic	Not determined Not determined
Solvent content: Organic solvents:	73.5 %
Solids content:	0.0 %
9.2 Other information	No further relevant information available


SECTION 10: Stability and reactivity

10.1 Reactivity	Not determined
10.2 Chemical stability:	Incompatible with strong oxidizing agents No decomposition if used according to specifications
10.3 Possibility of hazardous reactions	No dangerous reactions known
10.4 Conditions to avoid :	Elevated temperatures, presence of open flame, spark or ignition sources May react with strong oxidizing agents
10.6 Hazardous decomposition products:	No dangerous decomposition products known
Additional information:	None

SECTION 11: Toxicological information**11.1 Information on toxicological effects**

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 toxicity Based on available data, the classification criteria are not met		
LD/LC50 values relevant for classification:		
64-17-5 ethanol		
Oral	LD50	>7,000 mg/kg (rat)
Dermal	LD50	>15,800 mg/kg (rabbit)
Inhalative	LC50/4 h	>20 mg/l (Mouse) 124.7 mg/l (rat)
75-28-5 isobutane		
Inhalative	LC50/1 h	52 mg/l (Mouse)
106-97-8 butane		
Inhalative	LC50/4 h	658 mg/l (rat)
115-07-1 propene		
Inhalative	LC50/4 h	>20 mg/l (/)
Primary irritant effect:		
Skin corrosion/irritation		Based on available data, the classification criteria are not met
Serious eye damage/irritation		Causes serious eye irritation
Respiratory or skin sensitisation		Based on available data, the classification criteria are not met
CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)		
Germ cell mutagenicity		Based on available data, the classification criteria are not met
Carcinogenicity		Based on available data, the classification criteria are not met
Reproductive toxicity		Based on available data, the classification criteria are not met
STOT-single exposure		Based on available data, the classification criteria are not met
STOT-repeated exposure		Based on available data, the classification criteria are not met
Aspiration hazard		Based on available data, the classification criteria are not met
SECTION 12: Ecological information		
12.1		
Aquatic toxicity:		
64-17-5 ethanol		
EC 50	>100 mg/l (Chlorella pyrenoidosa) 10,943-11,619 mg/l (Skeletonema costatum) (OECD 201)	
EC 50 (24 h)	>100 mg/l (daphnia magna)	
LC 50 (96 h)	1,030 mg/l (fish) 11,200-13,000 mg/l (Oncorhynchus mykiss) 5,414 mg/l (daphnia magna)	
EC 50 (48 h)	(OECD 202)	
LC 50 (48 h)	>100 mg/l (Leuciscus idus)	
27668-52-6 Dimethyloctadecyl[3-(trimethoxysilyl)propyl]ammoniumchloride		
LC 50 (96 h)	1.73 mg/l (Rainbow trout)	
EC 50 (48 h)	0.18 mg/l (daphnia magna)	

12.2 Persistence and degradability No further relevant information available.	
Degree of elimination:	
64-17-5 ethanol	
OECD 301 D	. >70 % (/)
12.3 Bioaccumulative potential No further relevant information available.	
12.4 Mobility in soil No further relevant information available.	
Additional ecological information:	
General notes: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water	
12.5 Results of PBT and vPvB assessment	
PBT: Not applicable	
vPvB: Not applicable	
12.6 Other adverse effects No further relevant information available.	
SECTION 13: Disposal considerations	
13.1 Waste treatment methods	
Recommendation	
Must not be disposed together with household garbage. Do not allow product to reach sewage system	
Uncleaned packaging:	
Recommendation: Disposal must be made according to official regulations	
SECTION 14: Transport information	
14.1 UN-Number ADR, IMDG, IATA	UN1950
14.2 UN proper shipping name ADR/RID IMDG IATA	1950 AEROSOL, FLAMMABLE, N.O.S. (ETHYLALCOHOL) 1950 AEROSOL, FLAMMABLE, N.O.S. (ETHYLALCOHOL) 1950 AEROSOL, FLAMMABLE, N.O.S. (ETHYLALCOHOL)
14.3 Transport hazard class(es) ADR, IMDG, IATA	
	
Class	2.1 Flammable
Label	2
14.4 Packing group ADR, IMDG, IATA	II
14.5 Environmental hazards:	Not applicable
14.6 Special precautions for user	Warning: Extremely flammable aerosol
Danger code (Kemler):	33
EMS Number:	F-E,S-D
Stowage Category	A
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable

Transport/Additional information: ADR Limited quantities (LQ) Excepted quantities (EQ) Transport category Tunnel restriction code IMDG Limited quantities (LQ) Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml 2 D/E 1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
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UN "Model Regulation": UN 1170 ETHANOL (ETHYL ALCOHOL), 3, II

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Labelling according to Regulation (EC) No 1272/2008 GHS label elements

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

Seveso category P5c FLAMMABLE LIQUIDS

Qualifying quantity (tonnes) for the application of lower-tier requirements 5.000 t

Qualifying quantity (tonnes) for the application of upper-tier requirements 50.000 t

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 40

National regulations:

Technical instructions (air):

Class	Share in %
NK	73.5

Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

"The information provided in these documents is based on our present state of knowledge of the product and is given in good faith and to the best of our experience. However, it should not be construed as a technical specification or as guaranteeing specific properties. In no event we will be responsible for damages or effects of any nature whatsoever, either express or implied, resulting from the use of this information. It is the own responsibility of the consignee and the user of the product to comply with all prevailing and applicable laws, regulations and directives. They should also make their own determination as to the suitability of the product for a particular use or application."

Relevant phrases

H220 Extremely flammable gas

H225 Highly flammable liquid and vapour

H280 Contains gas under pressure; may explode if heated. H319

Causes serious eye irritation

Emergency Numbers

European Emergency Number: 112

AUSTRIA +43 1 40 400 2222

BELGIUM/LUXEMBOURG +32 70 245 245

BULGARIA +359 2 9154 409

CZECH REPUBLIC +42 2 2491 9293 or +42 2 2491 5402

DENMARK +45 82 12 12 12

ESTONIA 16662 (24/5 9h00 Monday till 9h00 Saturday)

FINLAND +358 9 471 977

FRANCE +33 1 40 05 48 48
GERMANY +49 30 450 653565
GREECE +30 10 779 3777
HUNGARY +36 80 20 11 99
IRELAND +353 1 8379964
ITALY +39 06 305 4343
LATVIA +371 704 2468
LITHUANIA +370 2 36 20 52 or +370 2 36 20 92
MALTA (+356) 21 247 860 or (+356) 21 241 251
NORWAY 22 59 13 00
NETHERLANDS +31 30 274 88 88
POLAND +48 22 619 66 54 or +48 22 619 08 97
PORTUGAL 808 250 143 or +351 21 330 3284
ROMANIA +40 21 230 8000
SLOVAKIA +421 2 54 77 4 166

SLOVENIA +386 41 650 500
SPAIN +34 937 192 561 (08:00-13:00 y 15:00-17:00 / viernes 08:00-15:00)
SWEDEN +46 8 33 12 31
UNITED KINGDOM +44 (0)20 7771 5310

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous

Goods IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of

Chemicals EINECS: European Inventory of Existing Commercial Chemical

Substances ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Gas 1: Flammable gases – Category 1

Press. Gas C: Gases under pressure – Compressed gas

Flam. Liq. 2: Flammable liquids – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2