### **SAFETY DATA SHEET**



#### 1. Identification of the material and supplier

#### **Names**

**Product name GERMINATOR II Antimicrobial Sanitiser and Protectant** 

**Supplier** Auto Klene Solutions Australia P/L.

83 Merrindale Drive, Croydon, Vic , Australia

+61 3 8761 1900

**Poison Information contact** Australia - 13 11 26

New Zealand - 0800 764 766 or 0800 POISON

**Material uses** Surface Antimicrobial Sanitiser and Protectant

**Product use** Consumer

### Section 2. Hazard(s) identification

Classification of the FLAMMABLE AEROSOLS - Category 1 GASES substance or mixture UNDER PRESSURE - Compressed gas

**GHS** label elements **Hazard pictograms** 





**DANGER** Signal word

**Hazard statements** Extremely flammable aerosol.

Contains gas under pressure; may explode if heated.

**Precautionary statements** 

Response

Read label before use. Keep out of reach of children. If medical advice is needed, have **General** 

product container or label at hand.

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

smoking. Pressurized container: Do not pierce or burn, even after use. Do not spray on an

open flame or other ignition source.

Not applicable.

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## Section 2. Hazard(s) identification

Storage Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Store in a well-ventilated place.

DisposalNot applicable.SupplementalNot applicable.

label elements

Other hazards which do not None known. result in classification

### Section 3. Composition and ingredient information

Substance/mixture Mixture

Ingredient name	% (w/w)	CAS number
Ethanol	≥50 - ≤60	64-17-5
Butane	≥10 - ≤30	106-97-8
Propane	≤10	74-98-6

Supplier's information: Product Contains less than 0,1% w/w 1, 3 Butadiene

Other Non-hazardous ingredients to 100%

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

#### **Description of necessary first aid measures**

**Eye contact** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower

eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10

minutes. Get medical attention if irritation occurs.

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen

tight clothing such as a collar, tie, belt or waistband.

Skin contact Flush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. Get medical attention if symptoms occur. Wash clothing before reuse.

Clean shoes thoroughly before reuse.

**Ingestion** Wash out mouth with water. Remove dentures if any. Remove victim to fresh air

and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such

as a collar, tie, belt or waistband.

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

Eye contactNo known significant effects or critical hazards.InhalationNo known significant effects or critical hazards.Skin contactNo known significant effects or critical hazards.IngestionNo known significant effects or critical hazards

Over-exposure signs/symptoms

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## Section 4. First aid measures

**Eye contact** Adverse symptoms may include the following:

irritation redness

**Inhalation** Adverse symptoms may include the following:

respiratory tract irritation

coughing

Skin contact No specific data.

Ingestion No specific data.

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments** No specific treatment.

**Protection of first-aiders**No action shall be taken involving any personal risk or without suitable training. It

may be dangerous to the person providing aid to give mouth-to-mouth resuscitation

See toxicological information (Section 11)

### Section 5. Firefighting measures

#### **Extinguishing media**

Suitable extinguishing

media

**Unsuitable extinguishing** 

media

Use an extinguishing agent suitable for the surrounding fire.

None known.

Specific hazards arising from the chemical

Extremely flammable aerosol. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed. Runoff to sewer may create fire or explosion

hazard.

Hazardous thermal decomposition products

Decomposition products may include the following materials:

carbon dioxide carbon monoxide

Special protective actions

for fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk.

Use water spray to keep fire-exposed containers cool.

**Special protective** 

equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure

mode.

Hazchem code 2YE

### Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training.

Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurised contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

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### Section 6. Accidental release measures

For emergency responders

If specialised clothing is required to deal with the spillage, take note of anyinformation in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

#### **Environmental precautions**

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### Methods and material for containment and cleaning up

**Small spill** 

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

## Section 7. Handling and storage

#### Precautions for safe handling

**Protective measures** 

Put on appropriate personal protective equipment (see Section 8). Pressurised container: protect from sunlight and do not expose to temperature exceeding 50°C. Do not pierce or burn, even after use. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Store between the following temperatures: 30 to 50°C (86 to 122°F). Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Protect from sunlight. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination.

Do not store above the following temperature Do not store below the following temperatures

50 °C

10 °C

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### Section 8. Exposure controls and personal protection

Control parameters Australia
Occupational exposure limits

Ingredient name	Exposure limits
Ethanol	Safe Work Australia (Australia, 1/2014). TWA: 1880 mg/m³ 8 hours. TWA: 1000 ppm 8 hours.
Butane	Safe Work Australia (Australia, 1/2014). TWA: 1900 mg/m³ 8 hours. TWA: 800 ppm 8 hours.
Propane	TRGS900 AGW (Germany, 12/2014). TWA: 1800 mg/m³ 8 hours. PEAK: 7200 mg/m³ 15 minutes. TWA: 1000 ppm 8 hours. PEAK: 4000 ppm 15 minutes.

#### **New Zealand**

Ingredient name	Exposure limits
Ethanol	NZ OSH (New Zealand, 2/2013). WES-TWA: 1000 ppm 8 hours. WES-TWA: 1880 mg/m³ 8 hours.
Butane	NZ OSH (New Zealand, 2/2013). WES-TWA: 800 ppm 8 hours. WES-TWA: 1900 mg/m³ 8 hours.

# Appropriate engineering controls

Use only with adequate ventilation. If user operations generate dust, fumes, gas,vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

# Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

#### **Hygiene measures**

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### **Eye/face protection**

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

### Skin protection Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

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## Section 8. Exposure controls and personal protection

**Body protection** Personal protective equipment for the body should be selected based on the task

being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity,

wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Appropriate footwear and any additional skin protection measures should

beselected based on the task being performed and the risks involved and should

be approved by a specialist before handling this product.

**Respiratory protection**Based on the hazard and potential for exposure, select a respirator that meets the

appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other

important aspects of use.

## Section 9. Physical and chemical properties

**Appearance** 

Other skin protection

Physical state Liquid. [Liquefied compressed gas.]

Colour Colourless to light yellow.

Odour Alcohol-like. Fragrance-like.

Odour threshold Not available.

**pH** 7 to 9

Melting pointNot available.Boiling point<35°C (<95°F)</th>

Flash point Closed cup: -60°C (-76°F)

Evaporation rate Not available.
Flammability (solid, gas) Not available.
Lower and upper explosive Not available.

(flammable) limits

Vapour pressure 213.7 kPa (1602.88 mm Hg) [room temperature]

Vapour density <1 [Air = 1]
Relative density 0.8 to 0.88

**Solubility** Easily soluble in the following materials: cold water and hot water.

Solubility in water Not available.

Partition coefficient: n- Not available.

octanol/water

Auto-ignition temperature

Decomposition temperature

Viscosity

Flow time (ISO 2431)

Not available.

Not available.

Not available.

Type of aerosol Spray
Heat of combustion 25.84 kJ/g

### Section 10. Stability and reactivity

**Reactivity**No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** The product is stable.

Possibility of hazardous

reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid** Avoid all possible sources of ignition (spark or flame).

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# Section 10. Stability and reactivity

Incompatible materials

No specific data.

**Hazardous decomposition** products

Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

## **Section 11. Toxicological information**

#### Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Ethanol	LC50 Inhalation Vapour	Rat	124700 mg/m <sup>3</sup>	4 hours
	LD50 Oral	Rat	7 g/kg	-
Butane	LC50 Inhalation Vapour	Rat	658000 mg/m <sup>3</sup>	4 hours

**Conclusion/Summary** Irritation/Corrosion

Based on available data, the classification criteria are not met.

Product/ingredient name	Result	Species	Score	Exposure	Observation
Ethanol	Eyes - Moderate irritant	Rabbit	-	0.066666667 minutes 100 milligrams	-
	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	100 microliters	-
	Eyes - Severe irritant	Rabbit	-	500 milligrams	-
	Skin - Mild irritant	Rabbit	-	400 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-

Conclusion/Summary

Skin **Eyes** Respiratory **Sensitisation** 

Not available.

Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.

**Conclusion/Summary** 

Skin Respiratory Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.

Mutagenicity

Not available.

**Conclusion/Summary** 

Based on available data, the classification criteria are not met.

Carcinogenicity

Not available.

**Conclusion/Summary** Reproductive toxicity

Based on available data, the classification criteria are not met.

**Conclusion/Summary** 

**Teratogenicity** 

Based on available data, the classification criteria are not met.

Not available.

Not available.

**Conclusion/Summary** Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure)

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# Section 11. Toxicological information

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

**Aspiration hazard** 

Not available.

Information on likely routes

Not available.

of exposure

Potential acute health effects

Eye contact
Inhalation
No known significant effects or critical hazards.
No known significant effects or critical hazards.
Skin contact
No known significant effects or critical hazards.
Ingestion
No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** Adverse symptoms may include the following:

irritation redness

**Inhalation** Adverse symptoms may include the following:

respiratory tract irritation

coughing

Skin contact No specific data.

Ingestion No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Short term exposure** 

Potential immediate Not available.

effects

Potential delayed effects Not available.

Long term exposure

Potential immediate Not available.

effects

Potential delayed effects Not available.

Potential chronic health effects

Not available.

**Conclusion/Summary** Based on available data, the classification criteria are not met.

General
No known significant effects or critical hazards.
No known significant effects or critical hazards.
Mutagenicity
No known significant effects or critical hazards.
Teratogenicity
No known significant effects or critical hazards.
Developmental effects
No known significant effects or critical hazards.
Fertility effects
No known significant effects or critical hazards.
No known significant effects or critical hazards.

Numerical measures of toxicity

**Acute toxicity estimates** 

Not available.

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## **Section 12. Ecological information**

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
Ethanol	Acute EC50 17.921 mg/l Marine water Acute EC50 2000 µg/l Fresh water Acute LC50 25500 µg/l Marine water Acute LC50 42000 µg/l Fresh water Chronic NOEC 4.995 mg/l Marine water Chronic NOEC 0.375 ul/L Fresh water	Algae - Ulva pertusa Daphnia - Daphnia magna Crustaceans - Artemia franciscana - Larvae Fish - Oncorhynchus mykiss Algae - Ulva pertusa Fish - Gambusia holbrooki -	96 hours 48 hours 48 hours 4 days 96 hours 12 weeks
		Larvae	

#### Persistence and degradability

Not available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Ethanol	-0.35	-	low
Butane	2.89	-	low
Propane	1.09	-	low

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

Not available.

#### Other adverse effects

No known significant effects or critical hazards.

### Section 13. Disposal considerations

### **Disposal methods**

The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

# 14. Transport information

Regulation	UN number	Proper shipping name	Classes	PG*	Label	Additional information
ADG	UN1950	AEROSOLS	2.1	-	FLAMABLE GAS	Hazchem code 2YE Special provisions 63, 190, 277, 327
IMDG	UN1950	AEROSOLS. Marine pollutant (Ethanol)	2.1	-	2	Emergency schedules (EmS) F-D, S-U Special provisions
						63, 190, 277, 327, 959, 344

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### 14. Transport information

IATA	UN1950	Aerosols, flammable	2.1	-	Passenger and Cargo Aircraft Quantity limitation: 75 kg Packaging instructions:
					203 Cargo Aircraft Only Quantity limitation: 150 kg Packaging instructions: 203
					Limited Quantities - Passenger Aircraft Quantity limitation: 30 kg Packaging instructions: Y203
					Special provisions A145, A167

PG\*: Packing group

Special precautions for user

**Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

### Section 15. Regulatory information

Standard Uniform Schedule of Medicine and Poisons

Poison Schedule (Australia): Not scheduled

Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

Australia inventory (AICS)
New Zealand Inventory of

Chemicals (NZIoC)

HSNO Group Standard Aerosols Flammable

**HSNO Approval Number** 

Approved Handler Requirement

HSR002515 No.

Tracking Requirement

No.

Therapeutic Goods Administration (TGA) Australia: AUST R 65954

### Section 16. Any other relevant information

Key to abbreviations

ADG = Australian Dangerous Goods

All components are listed or exempted.

All components are listed or exempted.

ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) NOHSC

= National Occupational Health and Safety Commission

SUSMP = Standard Uniform Schedule of Medicine and Poisons

**UN = United Nations** 

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# Section 16. Any other relevant information

#### **LEGAL DISCLAIMER:**

This MSDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information has been compiled from sources considered by us to be dependable and is accurate to the best of the Company's knowledge, although no warranty is given as to the accuracy. It is not meant to be an all- inclusive document on worldwide hazard communication regulations.

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