

# Safety Data Sheet

according to WHS Regulations

Printing date 07.09.2020

Revision: 08.04.2020

## 1 Identification

**Product Name: PROTECT E**

**Other Means of Identification:**

**Other Name:** Mild disinfectant solution.

**Recommended Use of the Chemical and Restriction on Use:** Teat dip

**Details of Manufacturer or Importer:**

DASCO Pty Ltd  
24 - 26 Helen Street  
Heidelberg Heights VIC 3081

**Phone Number:** (03) 9459 7004

**Emergency telephone number:** National Poison Information Centre: 13 11 26

## 2 Hazard(s) Identification

**Hazardous Nature:**

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)



corrosion

Serious Eye Damage/Irritation 1 H318 Causes serious eye damage.



Skin Sensitisation 1

H317 May cause an allergic skin reaction.

**Signal Word** Danger

**Hazard Statements**

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

**Precautionary Statements**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves / eye protection / face protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P362+P364 Take off contaminated clothing and wash it before reuse.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P501 Dispose of contents/container in accordance with local/regional/national regulations.

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## 3 Composition and Information on Ingredients

### Chemical Characterization: Mixtures

**Description:** Mixture of substances listed below with nonhazardous additions.

Hazardous Components:		
CAS: 56-81-5	Glycerol	<60%
CAS: 57-55-6	Propylene glycol	<10%
CAS: 8065-81-4	Cetyl alcohol adduct with ethylene oxide	<5%
	⚠ Serious Eye Damage/Irritation 1, H318; ⚠ Acute Toxicity (Oral) 4, H302	
CAS: 18472-51-0	Chlorhexidine gluconate	<5%
	⚠ Serious Eye Damage/Irritation 1, H318; ⚠ Aquatic Chronic 2, H411; ⚠ Skin Corrosion/Irritation 2, H315; ⚠ Skin Sensitisation 1, H317; ⚠ Aquatic Acute 2, H401	
CAS: 64-17-5	Ethanol	<5%
	⚠ Flammable Liquids 2, H225; ⚠ Serious Eye Damage/Irritation 2A, H319	

## 4 First Aid Measures

**Inhalation:** If inhaled, remove to fresh air. Seek medical attention if breathing problems develop.

### Skin Contact:

If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Seek medical attention if irritation persists.

### Eye Contact:

In case of eye contact, hold eyelids apart and flush eye with running water for at least 15 minutes or until advised to stop by Poisons Information Centre or a doctor. Seek medical attention.

### Ingestion:

If swallowed, do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Do not give anything by mouth to an unconscious person. Seek immediate medical attention.

### Symptoms Caused by Exposure:

**Inhalation:** May cause irritation to the upper respiratory system. Aspiration of froth into lungs during swallowing or vomiting may cause chemical pneumonitis (irritation of lung tissues) and pulmonary oedema (fluid build up in the lungs). Onset of symptoms may be delayed. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Skin Contact:** May cause mild skin irritation. Will have a degreasing effect on the skin. May cause an allergic skin reaction.

**Eye Contact:** Causes eye damage, redness and pain.

**Ingestion:** May cause nausea, vomiting, diarrhoea, fever, headache, insomnia, haemoglobinuria (haemoglobin in urine), convulsions, paralysis, elevated blood sugar and diabetic coma. Very large doses may cause irritation and dehydration of the tissues, haemolysis and kidney failure.

## 5 Fire Fighting Measures

**Suitable Extinguishing Media:** Water fog or fine water spray.

### Specific Hazards Arising from the Chemical:

No fire or explosion hazard exists. Hazardous combustion products include acrolein., oxides of nitrogen, carbon and traces of hydrogen chloride.

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**Special Protective Equipment and Precautions for Fire Fighters:**

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

**6 Accidental Release Measures****Personal Precautions, Protective Equipment and Emergency Procedures:**

Wear approved self-contained breathing apparatus and full protective clothing. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation. Extinguish all sources of ignition. Avoid sparks and open flames. No smoking.

**Environmental Precautions:** In the event of a major spill, prevent spillage from entering drains or water courses.**Methods and Materials for Containment and Cleaning Up:**

Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material. Collect the spilled material and place into a suitable container for disposal.

**7 Handling and Storage****Precautions for Safe Handling:**

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours. Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Contaminated work clothing must not be allowed out of the workplace. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

**Conditions for Safe Storage:**

Store in original container in a cool, dry and well ventilated area. Keep container tightly closed when not in use. Protect from physical damage and direct sunlight. Keep away from oxidising agents.

**8 Exposure Controls and Personal Protection****Exposure Standards:****CAS: 56-81-5 Glycerol**WES TWA: 10 mg/m<sup>3</sup>**CAS: 57-55-6 Propylene glycol**WES TWA: 474\* 10\*\* mg/m<sup>3</sup>, 150\* ppm  
\*vapour&particulates;\*\*particulates only**CAS: 64-17-5 Ethanol**WES TWA: 1880 mg/m<sup>3</sup>, 1000 ppm**Engineering Controls:**

Ensure adequate ventilation of the workplace. If handling industrial quantities, or if aerosol risk exists, provide exhaust ventilation or other engineering controls to keep the airborne concentrations as low as possible.

**Respiratory Protection:**

Use an approved vapour respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapour, inadequate ventilation, development of respiratory tract irritation) and engineering controls are not feasible. See Australian Standards AS/NZS 1715 and 1716 for more information.

**Skin Protection:**

Rubber or plastic gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information. When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.

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Impervious overalls, plastic apron, sleeves and boots should be worn when handling industrial quantities. See Australian/New Zealand Standard AS/NZS 4501 for more information.

**Eye and Face Protection:**

Eye and face protectors for protection against splashing materials or liquids. See Australian/New Zealand Standard AS/NZS 1337 for more information.

### 9 Physical and Chemical Properties

<b>Appearance:</b>	
<b>Form:</b>	Mobile, frothing liquid
<b>Colour:</b>	Clear, pink
<b>Odour:</b>	Almost odourless
<b>Odour Threshold:</b>	No information available
<b>pH-Value:</b>	About neutral
<b>Melting point/freezing point:</b>	<0 °C
<b>Initial Boiling Point/Boiling Range:</b>	>100 °C
<b>Flash Point:</b>	Not applicable
<b>Flammability:</b>	Product is not flammable.
<b>Auto-ignition Temperature:</b>	No information available
<b>Decomposition Temperature:</b>	No information available
<b>Explosion Limits:</b>	
<b>Lower:</b>	Not applicable
<b>Upper:</b>	Not applicable
<b>Vapour Pressure:</b>	No information available
<b>Density:</b>	No information available
<b>Relative Density at 20 °C:</b>	1.165 g/mL
<b>Vapour Density:</b>	No information available
<b>Evaporation Rate:</b>	No information available
<b>Solubility in Water:</b>	Miscible in all proportions
<b>Partition Coefficient (n-octanol/water):</b>	No information available
<b>% Volatiles by Volume:</b>	<24 %
<b>VOC:</b>	<1 %

### 10 Stability and Reactivity

**Possibility of Hazardous Reactions:** May react with strong oxidising agents.

**Chemical Stability:** Stable under normal conditions.

**Conditions to Avoid:** Direct sunlight.

**Incompatible Materials:** Oxidising agents.

**Hazardous Decomposition Products:** Acrolein, oxides of nitrogen and traces of hydrogen chloride.

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## 11 Toxicological Information

### Toxicity:

LD50/LC50 Values Relevant for Classification:		
<b>CAS: 56-81-5 Glycerol</b>		
Oral	LC <sub>50</sub> /1 h	>570 mg/m <sup>3</sup> (rat)
	LD <sub>50</sub>	12600 mg/kg (rat) 4090 mg/kg (mouse)
Dermal	TDL <sub>0</sub>	1428 mg/kg (human) (headache, nausea or vomiting)
	LD <sub>50</sub>	>10000 mg/kg (rabbit)
<b>CAS: 50-70-4 D-glucitol</b>		
Oral	LD <sub>50</sub>	15,900 mg/kg (rat)
<b>CAS: 57-55-6 Propylene glycol</b>		
Oral	LD <sub>50</sub>	2,000 mg/kg (rat)
Dermal	LD <sub>50</sub>	20,800 mg/kg (rabbit)
<b>CAS: 64-17-5 Ethanol</b>		
Oral	LD <sub>50</sub>	7,060 mg/kg (rat)
Inhalation	LC <sub>50</sub> /4 h	20,000 mg/l (rat)

### Acute Health Effects

#### Inhalation:

May cause irritation to the upper respiratory system. Aspiration of froth into lungs during swallowing or vomiting may cause chemical pneumonitis (irritation of lung tissues) and pulmonary oedema (fluid build up in the lungs). Onset of symptoms may be delayed. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Skin:** May cause mild skin irritation. Will have a degreasing effect on the skin. May cause an allergic skin reaction.

**Eye:** Causes eye damage, redness and pain.

#### Ingestion:

May cause nausea, vomiting, diarrhoea, fever, headache, insomnia, haemoglobinuria (haemoglobin in urine), convulsions, paralysis, elevated blood sugar and diabetic coma. Very large doses may cause irritation and dehydration of the tissues, haemolysis and kidney failure.

**Skin Corrosion / Irritation:** Based on classification principles, the classification criteria are not met.

**Serious Eye Damage / Irritation:** Causes eye damage.

**Respiratory or Skin Sensitisation:** May cause an allergic skin reaction.

**Germ Cell Mutagenicity:** Based on classification principles, the classification criteria are not met.

**Carcinogenicity:** This product does NOT contain any IARC listed chemicals.

**Reproductive Toxicity:** Based on classification principles, the classification criteria are not met.

#### Specific Target Organ Toxicity (STOT) - Single Exposure:

Based on classification principles, the classification criteria are not met.

#### Specific Target Organ Toxicity (STOT) - Repeated Exposure:

Based on classification principles, the classification criteria are not met.

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**Aspiration Hazard:** Based on classification principles, the classification criteria are not met.**Chronic Health Effects:** Chronic exposure to glycerol may affect the blood and kidneys.**Existing Conditions Aggravated by Exposure:** No information available

## 12 Ecological Information

**Ecotoxicity:****Aquatic toxicity:****CAS: 64-17-5 Ethanol**

EC50/48 h	>10,000 mg/l (daphnia)
	>100 mg/l (selenastrum capricornutum)
EC50/72 h	275 mg/l (algae)
LC50/96 h	15,300 mg/l (fathead minnow)
LC50/48 h	>100 mg/l (golden orfe)

May be harmful to aquatic life with long lasting effects.

**Persistence and Degradability:**

The surfactant used in this product is classified as substantially biodegradable: elimination &gt;99%.

**Bioaccumulative Potential:** No information available**Mobility in Soil:** No information available

## 13 Disposal Considerations

**Disposal Methods and Containers:** Dispose according to applicable local and state government regulations.**Special Precautions for Landfill or Incineration:**

Please consult your state Land Waste Management Authority for more information.

## 14 Transport Information

**UN Number** Not regulated**Proper Shipping Name** Not regulated**Dangerous Goods Class** Not regulated**Packing Group:** Not regulated

## 15 Regulatory Information

**Australian Inventory of Chemical Substances:**

CAS: 56-81-5	Glycerol
CAS: 50-70-4	D-glucitol
CAS: 57-55-6	Propylene glycol
CAS: 18472-51-0	Chlorhexidine gluconate
CAS: 8065-81-4	Cetyl alcohol adduct with ethylene oxide
CAS: 7732-18-5	Water

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CAS: 64-17-5	Ethanol
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**Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule: Not Scheduled.**

## 16 Other Information

**Date of Preparation or Last Revision:** 08.04.2020**Last Revision of MSDS:** 01.09.2009**Prepared by:** MSDS.COM.AU Pty Ltd[www.msds.com.au](http://www.msds.com.au)**Abbreviations and acronyms:**

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

Flammable Liquids 2: Flammable liquids – Category 2

Acute Toxicity (Oral) 4: Acute toxicity - oral – Category 4

Skin Corrosion/Irritation 2: Skin corrosion/irritation – Category 2

Serious Eye Damage/Irritation 1: Serious eye damage/eye irritation – Category 1

Serious Eye Damage/Irritation 2A: Serious eye damage/eye irritation – Category 2A

Skin Sensitisation 1: Skin sensitisation, Hazard Category 1

Aquatic Acute 2: Hazardous to the aquatic environment, short-term (Acute). Category 2

Aquatic Chronic 2: Hazardous to the aquatic environment, long-term (Chronic). Category 2

**Disclaimer**

This SDS is prepared in accord with the Safe Work Australia document “Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - May 2018”

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