# SAFETY DATA SHEET

Revision date: 04-May-2022



Revision Number 4

# **1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER**

Product identifier	
Product Name	MEMGUARD 61
Product Code(s)	00000009329
Other means of identification	
UN number	1814
Recommended use of the chemical	and restrictions on use
Recommended use	Membrane cleaning chemical.
Uses advised against	No information available.

Supplier Ixom Operations Pty Ltd ABN: 51 600 546 512 Level 8, 1 Nicholson Street Melbourne 3000 Australia

Telephone Number: +61 3 9906 3000

### Emergency telephone number

Emergency telephone number

1 800 033 111 (ALL HOURS)

Please ensure you refer to the limitations of this Safety Data Sheet as set out in the "Other Information" section at the end of this Data Sheet.

# 2. HAZARDS IDENTIFICATION

### GHS Classification

Classified as dangerous goods in accordance with the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG).

Classified as a hazardous chemical in accordance with the criteria of Safe Work Australia - Globally Harmonized System (GHS).

Corrosive to metals	Category 1
Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 1 Sub-category A
Serious eye damage/eye irritation	Category 1

SIGNAL WORD Danger

### Label elements

Corrosion Exclamation mark



### Hazard statements

H290 - May be corrosive to metals H302 - Harmful if swallowed H314 - Causes severe skin burns and eye damage

### **Precautionary Statements - Prevention**

Keep only in original container Do not breathe fume, gas, mist, vapours, spray Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Wear protective gloves / protective clothing / eye protection / face protection **Precautionary Statements - Response** Specific treatment (see First aid on this SDS) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell IF SWALLOWED: Rinse mouth. DO NOT induce vomiting IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Absorb spillage to prevent material damage **Precautionary Statements - Storage** Store locked up Store in corrosion resistant container with a resistant inner liner **Precautionary Statements - Disposal** Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

#### Other hazards which do not result in classification Poisons Schedule (SUSMP) 6

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Mixture

Chemical name	CAS No.	Weight-%
Potassium hydroxide	1310-58-3	10-<30
Sequesterant	-	10-<30
Other component(s)	-	to 100

# 4. FIRST AID MEASURES

### Description of first aid measures

General advice	For advice, contact a Poisons Information Centre (e.g. phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.
Inhalation	Remove to fresh air. Call a physician if symptoms occur.

e contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelic Consult a physician.				
Skin contact	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.			
Ingestion	Rinse mouth thoroughly with water. Do NOT induce vomiting. Drink 1 or 2 glasses of water Get immediate medical advice/attention.			
Most important symptoms and effe	ects, both acute and delayed			
Symptoms	Irritation/Corrosion. May cause redness and tearing of the eyes.			
Indication of any immediate medic	al attention and special treatment needed			
Note to physicians Treat symptomatically. Can cause corneal burns.				
5. FIRE FIGHTING MEASU	RES			
Suitable Extinguishing Media				
Suitable Extinguishing Media	Dry chemical, CO2, water spray or regular foam.			
Unsuitable extinguishing media	No information available.			
Specific hazards arising from the c	hemical			
Specific hazards arising from the chemical				
Special protective actions for fire-f	ighters			
Special protective equipment for fire-fightersFirefighters should wear self-contained breathing apparatus and full firefighting turn gear. Use personal protection equipment.				
Hazchem code	2R			
6. ACCIDENTAL RELEASE	EMEASURES			
Personal precautions, protective e	quipment and emergency procedures			
Personal precautions	Avoid contact with skin, eyes and inhalation of vapors. Evacuate personnel to safe areas. Ensure adequate ventilation. Stop leak if you can do it without risk. Do not touch or walk through spilled material. Use personal protective equipment as required. Wash thoroughly after handling.			
For emergency responders	Use personal protection recommended in Section 8.			
Environmental precautions				
Environmental precautions Local authorities should be advised if significant spillages cannot be contained.				
Methods and material for containm	ent and cleaning up			

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Soak up with inert absorbent material. Pick up and transfer to properly labelled containers.

After cleaning, flush away traces with water.

### 7. HANDLING AND STORAGE

### Precautions for safe handling

Advice on safe handling Conditions for safe storage, includi	Avoid contact with skin and eyes. Do not breathe vapor or mist. Do not eat, drink or smoke when using this product. Use personal protection equipment. Wash thoroughly after handling.
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from foodstuffs. Do not store in aluminium or galvanised containers nor use die-cast zinc or aluminium bungs; steel bungs should be used. Keep container closed when not in use. This material is a Scheduled Poison and must be stored, maintained and used in accordance with the relevant regulations.
Incompatible materials	Acids. Ammonium salts. Sodium hypochlorite. Aluminium. Tin. Zinc.
Poisons Schedule (SUSMP)	6

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Control parameters**

Exposure Limits

No value assigned for this specific material by Safe Work Australia. However, Workplace Exposure Standard(s) for constituent(s):

Potassium hydroxide: Peak Limitation = 2 mg/m<sup>3</sup>

As published by Safe Work Australia Workplace Exposure Standards for Airborne Contaminants.

Peak Limitation - a maximum or peak airborne concentration of a particular substance determined over the shortest analytically practicable period of time which does not exceed 15 minutes.

These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace 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.

### Appropriate engineering controls

 

 Engineering controls
 Ensure that eyewash stations and safety showers are close to the workstation location. Apply technical measures to comply with the occupational exposure limits.

 If in the handling and application of this material, safe exposure levels could be exceeded, the use of engineering controls such as local exhaust ventilation must be considered and the results documented. If achieving safe exposure levels does not require engineering

the results documented. If achieving safe exposure levels does not require engineering controls, then a detailed and documented risk assessment using the relevant Personal Protective Equipment (PPE) (refer to PPE section below) as a basis must be carried out to determine the minimum PPE requirements.

Individual protection measures, such as personal protective equipment

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

OVERALLS, CHEMICAL GOGGLES, FACE SHIELD, GLOVES (Long), APRON, RUBBER BOOTS.



# 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties						
Physical state	Liquid					
Appearance	Clear					
Color	No information available.					
Odor	Odourless					
Odor threshold	No information available.					
Property	Values					
рН	12.6 (1% v/v solution)					
pH (as aqueous solution)	No data available					
Melting point / freezing point	No data available					
Boiling point / boiling range	>100°C					
Flash point	Not applicable					
Evaporation rate	No data available					
Flammability (solid, gas)	No data available					
Flammability Limit in Air						
Upper flammability or explosive	Not applicable					
limits						
Lower flammability or explosive	Not applicable					
limits						
Vapor pressure	No data available					
Vapor density	No data available					
Relative density	1.34 @20°C					
Water solubility	Miscible in water					
Solubility(ies)	No data available					
Partition coefficient	No data available					
Autoignition temperature	Not applicable					
Decomposition temperature	No data available					
Kinematic viscosity	No data available					

No data available

Other information

Dynamic viscosity

Remarks • Method

None known None known None known None known None known None known None known

None known None known None known None known None known None known None known

None known

None known

# **10. STABILITY AND REACTIVITY**

### **Reactivity**

Reactivity	Reacts violently with acids. Corrosive to metals.
Chemical stability	
Stability	Stable under normal conditions.
Explosion data Sensitivity to mechanical impac	t None.
Sensitivity to static discharge	None.
Possibility of hazardous reactions	
Possibility of hazardous reactions	Contact with metals may evolve flammable hydrogen gas. Reacts readily with various reducing sugars (i.e. fructose, galactose, maltose, dry whey solids) to produce carbon monoxide. Take precautions including monitoring the tank atmosphere for carbon monoxide to ensure safety of personnel before vessel entry.
Conditions to avoid	
Conditions to avoid	Do not contaminate food or feed stuffs.
Incompatible materials	
Incompatible materials	Acids. Ammonium salts. Sodium hypochlorite. Aluminium. Tin. Zinc.
Hazardous decomposition products	

Hazardous decomposition products None known based on information supplied.

# 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

### Information on likely routes of exposure

Product Information	No adverse health effects expected if the chemical is handled in accordance with this Safety Data Sheet and the chemical label. Symptoms or effects that may arise if the chemical is mishandled and overexposure occurs are:
Inhalation	May cause irritation.
Eye contact	Corrosive to the eyes and may cause severe damage including blindness.
Skin contact	Contact causes severe skin irritation and possible burns.
Ingestion	Can burn mouth, throat, and stomach.
Symptoms	Irritation/Corrosion. May cause redness and tearing of the eyes.

### Numerical measures of toxicity - Product Information

Refer to component information below.

### Numerical measures of toxicity - Component Information

1	Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
	Potassium hydroxide	= 284 mg/kg (Rat)	-	-

See section 16 for terms and abbreviations

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

Skin corrosion/irritation	Causes burns. Classification is based on mixture calculation methods based on component data.
Serious eye damage/eye irritation	Causes serious eye damage. Classification is based on mixture calculation methods based on component data.
Respiratory or skin sensitization	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration hazard	No information available.

# 12. ECOLOGICAL INFORMATION

### Ecotoxicity

### Ecotoxicity

Keep out of waterways.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Potassium hydroxide	-	LC50: =80mg/L (96h, Gambusia affinis)	-	-
		Gambusia affinis)		

### Persistence and degradability

Persistence and degradability No information available.

Bioaccumulative potential

### **Bioaccumulation**

No information available.

### **Component Information**

Chemical name	Partition coefficient
Potassium hydroxide	0.65
	0.83

### <u>Mobility</u>

Mobility in soil

No information available.

### Other adverse effects

# **13. DISPOSAL CONSIDERATIONS**

### Waste treatment methods

Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.

# **14. TRANSPORT INFORMATION**

### <u>ADG</u>

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail; DANGEROUS GOODS.

UN number	1814
Proper shipping name	POTASSIUM HYDROXIDE SOLUTION
Hazard class	8
Packing group	II
Hazchem code	2R

### <u>IATA</u>

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

UN number	1814
UN proper shipping name	POTASSIUM HYDROXIDE SOLUTION
Transport hazard class(es)	8
Packing group	II

### IMDG

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; DANGEROUS GOODS.

UN number	1814
UN proper shipping name	POTASSIUM HYDROXIDE SOLUTION
Transport hazard class(es)	8
Packing group	II
IMDG EMS Fire	F-A
IMDG EMS Spill	S-B
Marine pollutant	No

# **15. REGULATORY INFORMATION**

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

### National regulations

### Australia

Classified as dangerous goods in accordance with the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG).

Classified as a hazardous chemical in accordance with the criteria of Safe Work Australia - Globally Harmonized System (GHS).

See section 8 for national exposure control parameters

Poisons Schedule (SUSMP) 6

International Inventories AIIC

All the constituents of this material are listed on the Australian Inventory of Industrial Chemicals.

Legend: AIIC - Australian Inventory of Industrial Chemicals

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

# **16. OTHER INFORMATION**

Reason(s) For Issue: 5 Yearly Revised Primary SDS

Issuing Date:

04-May-2022

This Safety Data Sheet has been prepared by Ixom Operations Pty Ltd (Toxicology and SDS Services).

#### **Revision Note:**

The symbol (\*) in the margin of this SDS indicates that this line has been revised.

### Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Sect	ion 8: EXPOSURE CONTROLS/PERSONAL	_ PROTECTION	
TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
С	Carcinogen		

### Key literature references and sources for data used to compile the SDS

EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s)) U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act U.S. Environmental Protection Agency High Production Volume Chemicals Food Research Journal Hazardous Substance Database International Uniform Chemical Information Database (IUCLID) Japan GHS Classification Australian Industrial Chemicals Introduction Scheme (AICIS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program Organization for Economic Co-operation and Development Screening Information Data Set RTECS (Registry of Toxic Effects of Chemical Substances)

World Health Organization

### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Ixom Operations Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

If clarification or further information is needed, the user should contact their Ixom representative or Ixom Operations Pty Ltd at the contact details on page 1.

Ixom Operations Pty Ltd's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.

End of Safety Data Sheet