SAFETY DATA SHEET



BIOSAN II

APPLIED PRODUCTS AUSTRALIA PTY LTD

Catalogue number: AP439 Version No: 4.1 Issue date: 01/04/2024

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifier	
Product name	BIOSAN II
Product code	AP439
Pack size	2.5L; 5L & 20L

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

Not Available

Relevant identified uses	Decontaminant biocide, hospital grade disinfectant and cleaner				
Details of the manufacturer/in	nporter				
Registered company name	APPLIED PRODUCTS AUSTRALIA PTY LTD	The Restoration Group Ltd			
Address	11 Gamma Close, Beresfield 2322 NSW Australia	53 Wakefield Street, Onekawa, Napier 4010,			
Telephone	(02) 4966 5516	(06) 835-0065			
Website	www.actichem.com.au	www.restorationgroup.co.nz			
Email	info@actichem.com.au	info@restorationgroup.co.nz			
mergency telephone numbe	r				
Association / Organisation	Poisons Information Centre				
Emergency telephone numbers	0800 - 764 - 766				

SECTION 2 HAZARDS IDENTIFICATION

numbers

Other emergency telephone

Classification of the substance or mixture

HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. Name of assigned group standard and HSNO approval number:

Cleaning Products Subsidiary Haza	rd Group Standard 2020 HSR002530
Poisons Schedule Not Applicable	
GHS Classification Skin Corrosion/Irr	itation Category 2, Serious Eye Damage Category 1
Eabshielements vn from HCIS and	from ECHA C&L Inventory
Hazard pictograms	
SIGNAL WORD	DANGER
Hazard statement(s)	
H315	Causes skin irritation
H318	Causes serious eye damage
Precautionary statement(s) Pre	evention
P280	Wear gloves and eye protection
P260	Do not breathe mists
P264	Wash contaminated skin thoroughly after handling
	1

Precautionary statement(s) Re	sponse
P305+P310+P351+P338	IF IN EYES: Immediately call a POISON CENTER or doctor. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+P362+P352+P332+P313	IF ON SKIN: Take off contaminated clothing. Wash with plenty of water and soap. If skin irritation
P363	occurs, get medical advice / attention.
Precautionary statement(s) Sto	or a le se contaminated clothing before reuse.

P405 Store locked up

This SDS and the hazard classifications contained herein only apply to the product in its concentrated form as supplied. When diluted to 1:15 or more, they no longer apply. However, good hygiene and housekeeping practices should be adhered to

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No %[weight] Name	
Trade secret <10 Quaternary Ammonium Compound blend – Twin Chain	
64-02-8 <10 EDTA tetrasodium salt	
67-63-0 <10 isopropanol	

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4 FIRST AID MEASURES

Description of first aid measures

Description of mist aid measur	
Eye Contact	If this product comes in contact with eyes: Seek medical advice / attention. Wash out immediately with water. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. If irritation continues, seek medical attention.
Skin Contact	If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhalation	If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary. If swallowed do NOT induce vomiting.
Ingestion	If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Seek medical advice.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media	There is no restriction on the type of extinguisher which may be used. Use extinguishing media suitable for surrounding area
al hazards arising from th	e substrate or mixture
Fire incompatibility	None known
ce for firefighters	
Fire Fighting	Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire Use firefighting procedures suitable for surrounding area. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire.
Fire/Explosion Hazard	Non-combustible. Not considered a significant fire risk, however containers may burn. Heat may cause expansion or decomposition with violent rupture of containers. Decomposes on heating and produces toxic fumes of: carbon dioxide (CO2), carbon monoxide (CO), other pyrolysis products typical of burning organic material.
HAZCHEM	Not applicable

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protecti	ve equipment and emergency procedures
Minor Spills	Rinse away with copious amounts of water.
Major Spills	Absorb on sand, dirt, vermiculite or similar absorbent material. Place into labelled drums and dispose of according to local government regulations. Immediately notify emergency services (Police or Fire Brigade) if the spill is too large for you to safely and effectively handle.
PPE	Personal protective equipment advice is contained in Section 8 of this SDS

SECTION 7 HANDLING AND STORAGE

Safe handling	DO NOT allow clothing wet with material to stay in contact with skin Avoid all personal contact. Wear protective clothing when risk of exposure occurs. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers.
Other information	

Conditions for safe storage, including any incompatibilities.

Suitable container	Polyethylene or polypropylene container. Packing as recommended by manufacturer. Check all containers are clearly labelled and free from leaks.
Storage incompatibility	None known

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Source Ingredient		Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	isopropanol	Isopropyl alcohol	983 mg/m3 / 400 ppm	1,230 mg/m3 / 500 ppm	Not available	Not available

EMERGENCY LIMITS							
Ingredient	Material name	TEEL-1		TEEL-2	TEEL-3		
Benzalkonium chloride	Benzalkonium chloride		9	Not Available	Not Available		
EDTA tetrasodium salt	Ethylenediaminetetraacetic acid, tetrasodium salt, dihydrate	30 mg/m3		330 mg/m3	2,000 mg/m3		
isopropanol	Isopropyl alcohol 400 ppm			400 ppm	12,000 pm		
					1		
Ingredient	Original IDLH		Revised IDLH				
Benzalkonium chloride	Not Available		Not Available				
EDTA tetrasodium salt	Not Available	Not Available					
isopropanol	12,000 ppm	2,000 [LEL] ppm					

Exposure controls

Maintain adequate ventilation at all times. In most circumstances natural ventilation systems are adequate. If ventilation is poor, then the use of a local exhaust ventilation system is recommended.
Safety glasses with side shields OR chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. Lens should be removed at the first signs of eye rednes or irritation. Lens should be removed in a clean environment only after workers have washed hands thoroughly
See Hand protection below
Wear chemical protective gloves, e.g. Neoprene.
See Other protection below
Barrier cream. Eye wash unit.
Not Available

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance Clear light tan liquid

Information on basic physical and chemical properties

Physical state	Liquid	Relative density (Water = 1)	Not Available
Odour	Lemon	Molecular weight (g/mol)	Not Available
Odour threshold	Not Available	Auto-ignition temperature(°C)	Not Applicable
Melting point / freezing point (°C)	Not Available	Surface Tension (dyn/cm or	Not Available
• • • •		mN/m)	
pH (as supplied)	10.5	Viscosity (cSt)	Not Available
Initial boiling point and	Not Available	Partition coefficient n-	
boiling range (°C)	Not Available	octanol / water	Not Available
Flash point (°C)	Not Applicable	Taste	Net Assolution
• • • •		Eveloping menomine	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Decomposition temperature	Not Available
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological e	ffects
Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC directives using animal models.) Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting
Ingestion	Accidental ingestion of the material may be damaging to the health of the individual.
Skin Contact	Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected This material can cause inflammation of the skin on contact in some persons. The material may accentuate any pre-existing dermatitis condition.
Eye	If applied to the eyes, this material causes severe eye damage. Isopropanol vapour may cause mild eye irritation at 400 ppm. Splashes may cause severe eye irritation, possible corneal burns and eye damage. Eye contact may cause tearing or blurring of vision.
Chronic	There is no relevant data listed.

Toxicological effects of ingredients

Quaternary Ammonium	Acute toxicity	Oral (estimate) 300 – 2000 mg/kg Dermal (estimate) 200 – 1000 mg/kg
Compound blend	Skin corrosion/irritation	Corrosive to skin - may cause skin burns
	Eye damage/irritation	Corrosive to eyes: contact can cause corneal burns
	Respiratory/skin sensitization	Classified as not a respiratory sensitizer nor a skin sensitizer
	Germ cell mutagenicity	classified as non-hazardous
	Carcinogenicity	classified as non-hazardous
	Reproductive toxicity	classified as non-hazardous
	STOT (single exposure)	classified as non-hazardous
	STOT (repeated exposure)	classified as non-hazardous
isopropanol	Aspiration toxicity	classified as non-hazardous
Isoproparior	Acute toxicity	Oral LD50 (rat) 5045 – 5840 mg/kg Dermal LD 50 (rabbit) 12800 mg/kg Inhalation LC50 (rat) 16000 ppm/8h
	Skin corrosion/irritation	May be irritating
	Eye damage/irritation	Causes serious eye irritation
	Respiratory/skin sensitization	Not expected to be a sensitizer
	Germ cell mutagenicity	Not considered to be a mutagenic hazard
	Carcinogenicity	Not considered to be a carcinogenic hazard
	Reproductive toxicity	Not considered to be toxic to reproduction
	STOT (single exposure)	May cause drowsiness or dizziness
	STOT (repeated exposure)	Not expected to cause toxicity to a specific organ
	Aspiration toxicity	Not expected to be

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in corrosion/irritation Eye damage/irritation ory/skin sensitization erm cell mutagenicity	Contact with skin may result in irritation Irritant (rabbit). No Data Available No Data Available
ory/skin sensitization erm cell mutagenicity	No Data Available
erm cell mutagenicity	
σ,	No Data Available
Carcinogenicity	Not listed as carcinogenic according to the International Agency for Research on Cancer (IARC).
Reproductive toxicity	No Data Available
OT (single exposure)	No Data Available
(repeated exposure)	No Data Available
Aspiration toxicity	No Data Available
	OT (single exposure) (repeated exposure)

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

	Endpoint	Duration (Hr.)	Species	Value
Ouaternary Ammonium No data available Compound blend				
LC50 96 Fish isopropanol				9-640mg/L
EC50 48 Crustacea				12500mg/L
			EC50 72 Algae or other aquatic plants	>1000mg/L
EC0 24 Crustacea				5-102mg/L
NOEC 504 Crustacea				=30mg/L
EDEA testrasodium salt	1			1-592mg/L
EC50 48 Crustacea				140mg/L
			EC50 72 Algae or other aquatic plants	=1.01mg/L
			EC10 72 Algae or other aquatic plants	=0.48mg/L
			NOEC 72 Algae or other aquatic plants	=0.39mg/L

Extracted from Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
isopropanol	LOW (Half-life = 14 days)	LOW (Half-life = 3 days)
Bio accumulative potential		
Ingredient	Bioaccumulation	
isopropanol	LOW (LogKOW = 0.05)	
Mobility in soil		
Ingredient	Mobility	
isopropanol	HIGH (KOC =1.06)	

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods	
Product / packaging disposal	Recycle containers whenever possible. Product residues and containers should be disposed of in accordance with local government regulations.

SECTION 14 TRANSPORT INFORMATION

Labels Required	
Marine Pollutant	NO
HAZCHEM	Not Applicable

Land transport (Not Applicable): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

SECTION 15 REGULATORY INFORMATION

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

QUATERNARY AMMONIUM COMPOUND IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australian Inventory of Industrial Chemicals (AIIC) Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

EDTA TETRASODIUM SALT IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 4 Australian Inventory of Industrial Chemicals (AIIC)

ISOPROPANOL IS FOUND ON THE FOLLOWING REGULATORY LISTS Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australian Inventory of Industrial Chemicals (AIIC) International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

SECTION 16 OTHER INFORMATION

Revision Schedule		
Revision Date	12/11/202	
Initial Date	0	
	30/04/202	
SDS Version Summary	0	
Version	Issue Date	Sections Updated
4.1	12/11/2020	Sections 2,11,12,15,16 have been updated or corrected

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources such as the ECHA C&L Chemical Inventory, HSNO (CCID) New Zealand, AICIS and HCIS Australia

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Definitions and abbreviations

PC-TWA;	Permissible Concentration-Time Weighted Average
PC-STEL:	Permissible Concentration-Short Term Exposure Limit
IARC:	International Agency for Research on Cancer
ACGIH:	American Conference of Government Industrial Hygienists
STEL:	Short Term Exposure Limit
TEEL:	Temporary Emergency Exposure Limit
IDLH:	Immediate Danger to Life or Health Concentrations
OSF:	Odour Safety Factor
NOAEL:	No Observed Effects Level
TLV:	Threshold Limit Value
LOD:	Limit Of Detection
OTV:	Odour Threshold Value
BCF:	Bio Concentration Factors
BEI:	Biological Exposure Index

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End of SDS