SAFETY DATA SHEET (SDS / MSDS)

Disinfectant Wipes

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

- **Productname:**DisinfectantWipes
- **Productcode:**991810
- **Form:**Nonwovenwipes(170×150mm)impregnatedwithadisinfectantliquid

1.2 Other means of identification

Disinfectant wipes; hard-surface disinfectant wipe; medical-grade surface disinfectant wipe.

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

- **Recommended use:**Hard-surfacedisinfectantwipeforprofessionalandinstitutionaluse (bactericidal, fungicidal, tuberculocidal, virucidal). Apply to hard, non-porous surfaces only.
- Not for use on skin or as a personal care wipe. Not for use on food-contact surfaces without a potable water rinse. Do not flush wipes.

Manufacturer: BH Medical Products Co., Ltd. 213024, No.90 Zhangjia Industry Park Xiling Zhonglou District Changzhou city Jiangsu province China

1.5 Emergency telephone number

Poisons Information Centre Within Australia : 131126 (24hours,7days)

SECTION 2: Hazard(s) identification

2.1 Classification of the substance or mixture

Classification applies to the **impregnating liquid mixture**, consistent with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) and the Australian Work Health and Safety (WHS) Regulations. The wipe (article) form substantially reduces exposure compared with the bulk liquid.

Hazardclassandcategory	Hazardstatement
FlammableLiquid—Category3	H226Flammableliquidandvapour
SeriousEyeDamage/EyeIrritation—Category2/2A	H319Causesseriouseyeirritation
HazardoustotheAquaticEnvironment—ChronicHazard, Category2	H411Toxictoaquaticlifewithlonglasting effects

2.2 Label elements (GHS)

- **Signalword:**Warning
- **Hazardpictograms:**Flame(GHS02);Exclamationmark(GHS07);Environment(GHS09)

Hazard statements: - H226 Flammable liquid and vapour - H319 Causes serious eye irritation - H411 Toxic to aquatic life with long lasting effects

Supplemental hazard information: - None. The product does not contain methylisothiazolinone (MCI/MI) preservatives.

Precautionary statements — Prevention: - P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. - P233 Keep container tightly closed. - P261 Avoid breathing vapours/spray (bulk liquid handling). - P264 Wash hands thoroughly after handling. - P273 Avoid release to the environment. - P280 Wear protective gloves and eye protection where exposure to the liquid may occur.

Precautionary statements — Response: - P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. - P337 + P313 If eye irritation persists: Get medical advice/attention. - P302 + P352 IF ON SKIN: Wash with plenty of water. - P370 + P378 In case of fire: Use alcohol-resistant foam, carbon dioxide (CO2), dry chemical powder or water spray to extinguish. - P391 Collect spillage.

Precautionary statements — Storage: - P403 + P235 Store in a well-ventilated place. Keep cool.

Precautionary statements — Disposal: - P501 Dispose of contents/container in accordance with local/regional/national regulations.

2.3 Other hazards

- Thewipesassuppliedpresentalowerexposureriskthanthebulkimpregnatingliquid;however, liquid released from saturated or pooled wipes retains the hazards above.

- This mixture does not meet the criteria for PBT or vPvB assessment (no data available for the mixture as a whole).

SECTION 3: Composition/information on ingredients

3.2 Mixture (impregnating liquid)

In accordance with Schedule 8 of the model WHS Regulations, only ingredients that contribute to the hazard classification of the mixture (Section 2) are required to be disclosed. Non-hazardous ingredients are not required to be disclosed.

Ingredient	CASNo.	Concentration	Contributiontoclassification
Isopropylalcohol	67-63-0	17.6% (v/v) ≈ 13.9% (w/w)	FlammableLiquidCat.3;Eye Irritation Cat. 2/2A
Benzalkonium chloride (BKC)	68424-85-1	0.305% (w/w)	Contributes to Aquatic Chronic toxicity (H411)
Polyhexamethylene biguanide hydrochloride (PHMB)	27083-27-8	0.203% (w/w)	Contributes to Aquatic Chronic toxicity (H411)

The concentrations of the active ingredients are as declared on the product label. The balance of the formulation is water and non-hazardous excipients, which are either non-hazardous or present below their disclosure thresholds under Schedule 8 of the model WHS Regulations. The complete quantitative formulation is submitted confidentially to the TGA.

SECTION 4: First-aid measures

4.1 Description of first-aid measures

- **Generaladvice:**Showthissafetydatasheettomedicalpersonnel.InAustralia,contactthe **Poisons Information Centre on 13 11 26** (24 hours) for advice.
- **Eyecontact:**Rinsecautiouslywithwaterforatleast15minutes,holdingeyelidsapart.Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, seek medical attention.
- **Skincontact:**Removecontaminatedclothing.Washskinwithplentyofsoapandwater.Ifskin irritation or an allergic rash occurs, seek medical advice.
- **Inhalation:**Unlikelyundernormalwipeuse.Ifvapoursareinhaledduringbulkliquidhandlingorin a fire, move the person to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention if symptoms occur.

- **Ingestion:** Rinse mouth thoroughly with water. Do **NOT** induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention or contact the Poisons Information Centre (13 11 26, Australia).

4.2 Most important symptoms and effects, both acute and delayed

- Eyeirritation(redness,watering,stinging).Possibleallergicskinreaction(redness,itching,rash)in sensitised individuals. Inhalation of vapours from bulk liquid may cause dizziness or drowsiness.

4.3 Indication of any immediate medical attention and special treatment needed

- **Notetophysician:Treatsymptomatically.Productcontainsisopropylalcohol(17.6%v/v)and antimicrobial active ingredients benzalkonium chloride (0.305% w/w) and polyhexamethylene biguanide hydrochloride (PHMB, 0.203% w/w); ingestion of significant quantities of the liquid may cause central nervous system depression and gastrointestinal irritation.**

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

- **Suitable:**Alcohol-resistantfoam,carbondioxide(CO2),drychemicalpowder,waterspray/fog.
- **Unsuitable:**Donotuseadirectwaterjet,whichmayspreadtheflammableliquid.

5.2 Special hazards arising from the substance or mixture

- Theimpregnatingliquidisflammable(Category3).Vapoursmayformexplosivemixtureswithair and may travel to an ignition source and flash back.
- **Hazardouscombustionproducts:**Carbonoxides(CO,CO2),hydrogenchloride(HCl),nitrogen oxides (NOx).

5.3 Advice for firefighters

- Wearself-containedbreathingapparatus(SCBA)andfullprotectiveclothing.Coolclosed containers exposed to fire with water spray. Prevent fire-fighting runoff from entering drains or waterways.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Eliminateallignitionsources(nosmoking,sparksoropenflames).Ventilatethearea.Forliquid spills, wear nitrile gloves and safety glasses. Avoid contact with eyes and prolonged skin contact.

6.2 Environmental precautions

- Preventliquidfromenteringdrains,sewersandwaterways.Notifyauthoritiesifsignificantspillage enters the environment.

6.3 Methods and material for containment and cleaning up

- **Wipes(articleform):**Pickupmechanicallyandplaceinasuitablecontainerfordisposal.
- **Releasedliquid:**Removeignitionsourcesandventilate.Absorbwithinert,non-combustible material (e.g., sand, earth, vermiculite) and place in a labelled, closable container for disposal. Do not flush to drains.

6.4 Reference to other sections

- SeeSection8forpersonalprotectionandSection13fordisposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Keepawayfromheat,hotsurfaces,sparks,openflamesandotherignitionsources.Nosmoking.
- Avoidcontactwitheyes.Washhandsafteruse.Keepthepack/lidclosedwhennotinuseto prevent evaporation of the flammable liquid.
- Useonlyonhardsurfacesasdirected.Notforuseonskin.

7.2 Conditions for safe storage, including any incompatibilities

- Storeinacool(below25°C),well-ventilatedplace,awayfromdirectsunlight,heatandignition sources. Keep container/pack tightly closed.
- **Incompatiblematerials:**Strongoxidizingagents;strongacids(seeSection10).

7.3 Specific end use(s)

- Hard-surfacedisinfectionasdescribedinSection1.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters — Occupational exposure limits

Component	Limit(Australia,SafeWorkAustraliaWES)	Limit(ACGIHTLV)
Isopropylalcohol (67-63-0)	TWA400ppm(983mg/m³);STEL500ppm(1230 mg/m³)	TWA200ppm;STEL400 ppm

Other components: no established occupational exposure limits.

8.2 Exposure controls

- **Engineeringcontrols:**Undernormalwipeuse,generalroomventilationisadequate.Forbulk liquid handling (decanting, spill cleanup of large volumes), ensure adequate ventilation; use local exhaust ventilation where vapour concentrations may approach exposure limits.
- **Respiratoryprotection:**Notrequiredundernormaluse.Ifexposurelimitsforisopropylalcohol may be exceeded during bulk handling, use a respirator with an organic vapour cartridge (AS/NZS 1715/1716 or equivalent).

- **Hand protection:** Normal wipe use — no special protection required. Bulk liquid handling or prolonged/repeated contact — nitrile gloves.
- **Eye protection:** Normal wipe use — not required. Bulk liquid handling — safety glasses with side shields (AS/NZS 1337 or equivalent).
- **Skin and body protection:** Normal use — not required. Bulk handling — protective work clothing; wash after handling.
- **Environmental exposure controls:** Avoid release to the environment (see Sections 6, 12 and 13).

SECTION 9: Physical and chemical properties

Property	Value
Appearance	Whitenonwovenwipesaturatedwithclear,colourlessliquid
Odour	Slightalcoholodour
Odourthreshold	Nodataavailable
pH(impregnatingliquid)	Approx.5–7(estimated)
Meltingpoint/freezingpoint	Nodataavailable
Initialboilingpointandboiling range	Nodataavailable
Flash point (impregnating liquid)	Approx. 35–45 °C (estimated from the isopropyl alcohol content of 17.6% v/v; not measured)
Evaporation rate	No data available
Flammability (solid/gas)	Wipe contains flammable liquid (Flammable Liquid Category 3)
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Solubility	Impregnating liquid is miscible with water
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	Not explosive (no data available for mixture)
Oxidizing properties	Not oxidizing

Physical data marked "(estimated)" are estimated from formulation components and have not been measured for the product.

SECTION 10: Stability and reactivity

10.1 Reactivity

- Notreactiveunderrecommendedconditionsofstorageanduse.

10.2 Chemical stability

- Stableundernormalambientconditions(storebelow25°C,awayfromheat).

10.3 Possibility of hazardous reactions

- Vapoursoftheimpregnatingliquidmayformflammable/explosivemixtureswithair.Mayreact with strong oxidizing agents.

10.4 Conditions to avoid

- Heat,hotsurfaces,sparks,openflamesandotherignitionsources;directsunlight;prolonged storage above 25 °C.

10.5 Incompatible materials

- Strongoxidizingagents;strongacids.

10.6 Hazardous decomposition products

- Underfireconditions:carbonoxides(CO,CO2),hydrogenchloride(HCl),nitrogenoxides(NOx).No hazardous decomposition under normal storage and use.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

No toxicological testing has been performed on the mixture. The assessment below is based on the properties of the components of the impregnating liquid.

- **Likelyroutesofexposure:**Eyecontact,skincontact;inhalationandingestiononlyunderabnormal conditions (bulk liquid handling, misuse).
- **Acutetoxicity:**Notclassifiedasacutelytoxicatmixturelevel.Referencedata—isopropylalcohol: LD50 (oral, rat) ≈ 5045 mg/kg; LD50 (dermal, rabbit) ≈ 12800 mg/kg. Certain other active ingredients are harmful if swallowed in concentrated form; they are present in this product at low concentrations.
- **Skincorrosion/irritation:**Notclassifiedatmixturelevel.Prolongedorrepeatedcontactwiththe liquid may cause dryness or mild irritation.

- **Serious eye damage/eye irritation: Category 2/2A — causes serious eye irritation (driven by isopropyl alcohol, present at 17.6% v/v (≈ 13.9% w/w); see Section 3).**
- **Respiratory or skin sensitisation: Not classified at mixture level. This formulation does not contain methylchloroisothiazolinone/methylisothiazolinone (CMIT/MIT). Benzalkonium chloride (0.305% w/w) and PHMB (0.203% w/w) are present at low concentrations below their classification trigger levels; skin sensitisation is not expected under normal use, although prolonged or repeated contact with the undiluted liquid should be avoided.**
- **Germ cell mutagenicity:** No data available for the mixture; not classified.
- **Carcinogenicity:** No data available for the mixture; not classified.
- **Reproductive toxicity:** No data available for the mixture; not classified.
- **STOT — single exposure:** Not classified at mixture level. Isopropyl alcohol vapour at high concentrations may cause drowsiness or dizziness (relevant to bulk liquid handling in poorly ventilated spaces).
- **STOT — repeated exposure:** No data available; not classified.
- **Aspiration hazard:** Not relevant for the wipe form; not classified.

SECTION 12: Ecological information

No ecotoxicological testing has been performed on the mixture. Assessment is based on component properties.

12.1 Toxicity

- ClassifiedasAquaticChronicCategory2(H411)—toxictoaquaticlifewithlonglastingeffects (conservative classification; benzalkonium chloride and PHMB are very toxic to aquatic organisms).

12.2 Persistence and degradability

- Nodataavailableforthemixture.Isopropylalcoholisreadilybiodegradable;benzalkonium chloride, PHMB and certain other ingredients may persist.

12.3 Bioaccumulative potential

- Nodataavailableforthemixture.

12.4 Mobility in soil

- Nodataavailable.Theimpregnatingliquidismisciblewithwater.

12.5 Results of PBT and vPvB assessment

- Nodataavailableforthemixture.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- **Product(usedwipes):**Disposeofusedwipesinaccordancewithlocal,stateandnational regulations. In clinical settings, dispose of as clinical/general waste as required by the facility's waste management procedures. **Do not flush wipes** down toilets or drains.
- **Residualliquid/spillresidues:**Absorbanddisposeofaschemicalwasteinaccordancewithlocal regulations. Avoid release to the environment.
- **Contaminatedpackaging:**Emptypacksmayretainflammableresidues;keepawayfromignition sources. Dispose of or recycle packaging in accordance with local regulations; do not reuse empty containers.

SECTION 14: Transport information

14.1–14.4 Transport classification (ADG / IMDG / IATA)

Element	Classification
UNnumber	UN3175
Propershippingname	SOLIDSCONTAININGFLAMMABLELIQUID,N.O.S.(isopropylalcohol)
Transport hazard class	Class 4.1 (Flammable solid)
Packinggroup	II
Environmental hazards	Marinepollutantconsiderationsmayapplyduetoaquatictoxicity (component-based);confirmperIMDGrequirements
Specialprecautions for user	Keepawayfromheatandignitionsources

Notes: - Nonwoven wipes impregnated with a flammable liquid are typically transported under **UN 3175, Class 4.1, PG II** under the Australian Dangerous Goods Code (ADG), IMDG Code and IATA DGR. - Limited quantity and excepted quantity provisions may apply depending on packaging and quantity, which may reduce marking, labelling and documentation requirements. - **Transport classification may vary with packaging configuration and quantity — confirm with a qualified dangerous goods specialist before shipment.**

SECTION 15: Regulatory information

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

Australia: - **ARTG:** This product is listed on the Australian Register of Therapeutic Goods — **ARTG Identifier 291153** (disinfectant product). - **WHS:** Classified and labelled in accordance with the model Work Health and Safety Regulations (GHS-based); see Section 2. - **AICIS / Industrial Chemicals Act 2019:** Components

may be subject to the Australian Industrial Chemicals Introduction Scheme (AICIS) inventory and introduction requirements. - **Poisons Standard (SUSMP):** Components of this product may be scheduled under the Standard for the Uniform Scheduling of Medicines and Poisons; refer to the current SUSMP. - **ADG Code:** Transport regulated under the Australian Code for the Transport of Dangerous Goods by Road & Rail (see Section 14).

European Union (export): - Classification, labelling and packaging may be subject to Regulation (EC) No 1272/2008 (CLP). - The biocidal active substances contained in this product may be subject to Regulation (EU) No 528/2012 (Biocidal Products Regulation, BPR); product authorisation may be required before placing on the EU market. - Components may be subject to Regulation (EC) No 1907/2006 (REACH).

United States (export): - If marketed as a disinfectant/sanitizer, the product may be subject to registration under the US Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), administered by the US EPA. - Hazard communication may be subject to OSHA Hazard Communication Standard (29 CFR 1910.1200, HazCom 2012/GHS-aligned).

The statements above are general "may be subject to" indications and do not constitute registrations, approvals or confirmations of compliance in any jurisdiction.

15.2 Chemical safety assessment

- Nochemicalsafetyassessmenthasbeencarriedoutforthismixture.

SECTION 16: Other information

Abbreviations and acronyms

Abbreviation	Meaning
ADG	AustralianCodefortheTransportofDangerousGoodsbyRoad&Rail
AICIS	AustralianIndustrialChemicalsIntroductionScheme
ARTG	AustralianRegisterofTherapeuticGoods
BPR	BiocidalProductsRegulation(EU)
CAS	ChemicalAbstractsService
CLP	Classification,LabellingandPackagingRegulation(EC)No1272/2008
BKC	Benzalkonium chloride
FIFRA	Federal Insecticide, Fungicide, and Rodenticide Act (US)
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
IATA DGR	International Air Transport Association Dangerous Goods Regulations
IMDG	International Maritime Dangerous Goods Code
IPA	Isopropyl alcohol (isopropanol, propan-2-ol)

Abbreviation	Meaning
LD50	Median lethal dose
MSDS/SDS	(Material) Safety Data Sheet
PBT / vPvB	Persistent, Bioaccumulative and Toxic / very Persistent and very Bioaccumulative
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals (EC) No 1907/2006
STEL / TWA	Short-Term Exposure Limit / Time-Weighted Average
STOT	Specific Target Organ Toxicity
SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons
WES	Workplace Exposure Standards (Safe Work Australia)
WHS	Work Health and Safety
PHMB	Polyhexamethylene biguanide hydrochloride (polyhexanide)

Document information

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Scope and basis of this SDS

- ThisSDSappliestothewipesassupplied(nonwovenwipesimpregnatedwithdisinfectantliquid). The classification and information herein are based on the impregnating liquid formulation; the wipe (article) form reduces exposure relative to the bulk liquid.
- Hazardclassificationsassignedconservativelywheremixturetestdataarenotavailable.Physical and chemical properties marked “(estimated)” are derived from formulation components and have not been measured on the finished product.