SAFETY DATA SHEET



1. Identification

Product identifier	Hibitane® DISINFECTANT		
Other means of identification			
Synonyms	Hibitane * Nolvasan Solution * Chlorhexidine acetate 2% disinfectant		
Recommended use	Veterinary product used as disinfectant		
Recommended restrictions	Not for human use		
Manufacturer/Importer/Supplier/I			
Company Name (USA)	Zoetis Inc.		
	10 Sylvan Way		
Pooky Mountain Daison	Parsippany, New Jersey 07054 (USA) 1-866-531-8896		
Rocky Mountain Poison and Drug Center	1-000-031-0090		
Product Support/Technical Services	1-800-366-5288		
Emergency telephone numbers	CHEMTREC (24 hours): 1-800-424-9300		
	International CHEMTREC (24 hours): +1-703-	527-3887	
Company Name (CA)	Zoetis Canada Inc.		
	16740 Trans-Canada Highway		
	Kirkland, Quebec, H9H 4M7		
Emergency telephone number	International CHEMTREC (24 hours): +1-703-	527-3887	
Contact E-Mail	productsupport@zoetis.com		
Product Support	1-800-461-0917		
	All Safety Data Sheets are available via our Zo	potis Canada woheita at	
	https://www.zoetis.ca/sds/sds.aspx	Jelis Gallada websile al	
Supplier	Not available.		
2. Hazard(s) identification			
Physical hazards	Not classified.		
Health hazards	Acute toxicity, inhalation	Category 4	
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 2	
	Hazardous to the aquatic environment, long-term hazard	Category 2	
Label elements			
Signal word	Warning		
Hazard statement	Harmful if inhaled. Toxic to aquatic life with lor	ng lasting effects.	
Precautionary statement			
Prevention	Avoid breathing mist/vapours/spray. Use only to the environment.	outdoors or in a well-ventilated area. Avoid release	
Response	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE/doctor if you feel unwell. Collect spillage.		

Store away from incompatible materials.

Storage

Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Other hazards	None known.
Supplemental information	May cause eye and skin irritation. May cause mucous membrane and respiratory tract irritation.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Polyethylene Glycol Octylphenol Ether		9002-93-1	5
Chlorhexidine acetate		56-95-1	2
Acetic acid		64-19-7	## / **
Sodium hydroxide		1310-73-2	## / **

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

All concentrations are in percent b	y weight unless ingredient is a gas. Gas concentrations are in percent by volume.
Composition comments	## Trace ** to adjust pH
4. First-aid measures	
Inhalation	Move to fresh air. Call a physician if symptoms develop or persist. For breathing difficulties, oxygen may be necessary.
Skin contact	Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Remove contact lenses, if present and easy to do.
Ingestion	IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician. Rinse mouth. Do not induce vomiting without advice from poison control center. Never give anything by mouth to a victim who is unconscious or is having convulsions.
Most important symptoms/effects, acute and delayed	May cause eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause skin irritation. Signs and symptoms might include skin rash, itching, redness or swelling. Inhalation may cause difficulty breathing, chest tightness, and respiratory irritation with coughing, wheezing, and sputum generation.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.
General information	IF exposed or concerned: Get medical advice/attention. For personal protection, see section 8 of the SDS. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
5. Fire-fighting measures	

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Ensure adequate ventilation. Ventilate the contaminated area. Do not breathe mist or vapour. Avoid contact with eyes, skin, and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up	Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Avoid release to the environment. Prevent entry into waterways, sewer, basements or confined areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area).
	Large Spills: Stop the flow of material, if this is without risk. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.
7. Handling and storage	
Precautions for safe handling	Use only with adequate ventilation. Keep away from heat, sparks and open flame. Wear personal protective equipment. Avoid breathing mist or vapour. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Wash thoroughly after handling. When using, do not eat, drink or smoke. Avoid release to the environment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store locked up. Store in tightly closed original container. Store in a well-ventilated place. Store out of direct sunlight in dark, dry conditions. @ 15-30°C (59-86°F). Protect from heat and light. Do not allow material to freeze. Store away from incompatible materials (see Section 10 of the SDS). Keep out of the reach of children. Keep away from food, drink and animal feeding stuffs.
8. Exposure controls/pers	onal protection
Occupational exposure limits US. ACGIH Threshold Limit	Values

Components	Туре	Value	
Acetic Acid (CAS 64-19-7)	STEL	15 ppm	
	TWA	10 ppm	
Sodium Hydroxide (CAS	Ceiling	2 mg/m3	

1310-73-2)

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Туре	Value	
Acetic Acid (CAS 64-19-7)	STEL	37 mg/m3	
		15 ppm	
	TWA	25 mg/m3	
		10 ppm	
Sodium Hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3	

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Туре	Value	
Acetic Acid (CAS 64-19-7)	STEL	15 ppm	
	TWA	10 ppm	
Sodium Hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3	
Canada. Manitoba OELs (Reg. 21	7/2006, The Workplace Safety	And Health Act)	
Components	Туре	Value	
Acetic Acid (CAS 64-19-7)	STEL	15 ppm	
	TWA	10 ppm	
Sodium Hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3	
Canada. Ontario OELs. (Control o	of Exposure to Biological or Ch	emical Agents)	
Components	Туре	Value	
Acetic Acid (CAS 64-19-7)	STEL	15 ppm	
	TWA	10 ppm	
Sodium Hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3	

Components	Туре	Value
Acetic Acid (CAS 64-19-7)	STEL	37 mg/m3
		15 ppm
	TWA	25 mg/m3
		10 ppm
Sodium Hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3
	ELs (Occupational Health and Safety	Regulations, 1996, Table 21)
Components	Туре	Value
Sodium Hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3
ological limit values	No biological exposure limits noted f	or the ingredient(s).
ontrol banding approach	Chlorhexidine acetate: Zoetis OEB4	(control exposure to the range of >1ug/m3 to <10ug/m3)
opropriate engineering ontrols	Ensure adequate ventilation, especially in confined areas. Keep air contamination levels below t exposure limits or within the OEB range listed above in this section. General ventilation normally adequate.	
dividual protection measures	s, such as personal protective equipn	nent
Eye/face protection	• • • • •	otection (additionally, face shield recommended for open
Skin protection		
Hand protection	Wear appropriate chemical resistant with drug product is possible and for	gloves. Impervious gloves are recommended if skin contact bulk processing operations.
Other	Wear suitable protective clothing. Use protective clothing (uniforms, lab coats, disposable coveralls, etc.) in both production and laboratory areas.	
Respiratory protection	No personal respiratory protective equipment normally required. In case of insufficient ventilation wear suitable respiratory equipment. Whenever air contamination (mist, vapor or odor) is generated, respiratory protection is recommended as a precaution to minimize exposure. If airborne exposures are within or exceed the Occupational Exposure Band (OEB) range, wear a appropriate respirator with a protection factor sufficient to control exposures to the bottom of th OEB range. If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.	
	Not applicable.	
Thermal hazards		
Thermal hazards eneral hygiene		ene measures, such as washing after handling the material

9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Liquid.
Colour	Not available.
Odour	Not available.
Odour threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or expl	osive limits
Flammability limit - lower	Not available.

Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit – upper (%)	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
10. Stability and reactivity	,
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.

Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerisation does not occur.
Conditions to avoid	Contact with incompatible materials. Sunlight. Exposure to light. Protect from freezing.
Incompatible materials	Strong oxidising agents.
Hazardous decomposition products	Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition. Carbon oxides. Nitrogen oxides (NOx). May include hydrogen chloride.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Harmful if inhaled. May cause mucous membrane and respiratory tract irritation.	
Skin contact Chlorhexidine acetate	May cause skin irritation.	Species: Rabbit Severity: Mild
Polyethylene Glycol Octylphe	nol Ether	Species: Rabbit Severity: Mild
Sodium hydroxide		Species: Rabbit Severity: Severe
Eye contact Polyethylene Glycol Octylphe	May cause eye irritation. nol Ether	Species: Rabbit Severity: Moderate
Chlorhexidine acetate		Species: Rabbit Severity: Severe
Sodium hydroxide		Species: Rabbit Severity: Severe
Ingestion	Health injuries are not known hazard.	or expected under normal use. Expected to be a low ingestion
Symptoms related to the physical, chemical and toxicological characteristics	May cause eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause skin irritation. Signs and symptoms might include skin rash, itching, redness or swelling. Inhalation may cause difficulty breathing, chest tightness, and respiratory irritation with coughing, wheezing, and sputum generation.	

nformation on toxicological ef		
Acute toxicity	Harmful if inhaled.	
Product	Species	Test results
Hibitane® DISINFECTANT		
Acute		
		[max // (durate /minte)
ATE		5 mg/l (dusts/mists)
Oral ATE		5000 mg///g
	Cracico	> 5000 mg/kg
Components	Species	Test results
Acetic acid (CAS 64-19-7)		
<u>Acute</u> Dermal		
LD50	Rabbit	1060 mg/kg
Inhalation	habbh	rooo mg/kg
LC50	Mouse	5000 ppm
2000	Rat	11.4 mg/l, 4 Hours
Quel	nai	11.4 mg/l, 4 houis
Oral LD50	Rat	3530 mg/kg
LDJU	nat	
Chlorbovidino costato (CAS EG O	E 1)	3.31 g/kg
Chlorhexidine acetate (CAS 56-9	5-1)	
<u>Acute</u> Dermal		
LD50	Rabbit	> 2000 mg/kg
Inhalation		2000 mg/ng
LC50	Rat	0.1 - 0.46 mg/l
Oral		on one ng/
LD50	Mouse	2000 mg/kg
	Rat (F)	1180 mg/kg
	Rat (M)	1710 mg/kg
Ochobasis		17 To Hig/kg
Subchronic Dormal		
Dermal LOAEL	Rabbit	500 mg/kg/day, 13 weeks (Target organs:
LOALL	Habbit	Liver, Skin)
Polyethylene Glycol Octylphenol	Ether (CAS 9002-93-1)	
Acute		
Oral		
LD50	Rat	1800 mg/kg
Sodium hydroxide (CAS 1310-73	-2)	
<u>Acute</u>		
Intraperitoneal		
LD50	Mouse	40 mg/kg
Skin corrosion/irritation	Frequent or prolonged contact ma	ay defat and dry the skin, leading to discomfort and dermatitis.
Corrosivity		
Chlorhexidine acetate		pecies: Rabbit
	56	everity: Mild
Serious eye damage/eye	Based on available data, the class	sification criteria are not met. May be irritating to eyes.
rritation	·····, · · ····, · · ····	··,··· 3····,··

Eye contact Polyethylene Glycol Octyl	phenol Ether	Species: Rabbit Severity: Moderate
Chlorhexidine acetate		Species: Rabbit Severity: Severe
Sodium hydroxide		Species: Rabbit Severity: Severe
Respiratory or skin sensitisation Canada - Alberta OELs: Irrita Sodium hydroxide (CAS 1	ant	Irritant
Respiratory sensitisation	Not a respiratory sensitizer.	
Skin sensitisation	This product is not expected to	o cause skin sensitisation.
Skin sensitisation Chlorhexidine acetate		GPMT Species: Guinea Pig Severity: negative
Germ cell mutagenicity	No data available to indicate p mutagenic or genotoxic.	product or any components present at greater than 0.1% are
Mutagenicity Chlorhexidine acetate Carcinogenicity Reproductive toxicity Developmental effects Chlorhexidine acetate	•	In Vitro Cytogenetics Result: negative Species: Chinese Hamster Ovary (CHO) cells In Vivo Micronucleus Result: negative Species: Rat Hepatocyte Mammalian Cell Mutagenicity Result: negative Species: Mouse Lymphoma It to be a carcinogen by IARC, ACGIH, NTP, or OSHA. to be a carcinogen by IARC, ACGIH, NTP, or OSHA. to cause reproductive or developmental effects. 31.25 mg/kg/day Embryo / Fetal Development, Maternal toxicity Result: LOEL Species: Rat Organ: Oral 62.5 mg/kg/day Embryo / Fetal Development, No effects at maximum dose Result: NOEL Species: Rat Organ: Oral
Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not an aspiration hazard.	
Chronic effects	Prolonged inhalation may be harmful.	
12. Ecological information		
Ecotoxicity		asting effects. Avoid release to the environment.

Components		Species	Test results
Acetic acid (CAS 64-19-7)			
	LC50	Mysidopsis bahia (Mysid Shrimp)	100 - 300 mg/l, Hours
		Pimephales promelas (Fathead Minnow)	> 315 mg/l, 1 Hours
			122 mg/l, 24 Hours
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	65 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	75 mg/l, 96 hours
Chlorhexidine acetate (CAS	56-95-1)		
	EC50	Daphnia Magna (Water Flea)	0.06 mg/l, 48 Hours
	LC50	Lepomis macrochirus (Bluegill Sunfish)	0.6 ppm, 96 Hours
		Oncorhynchus mykiss (Rainbow Trout)	1.9 ppm, 96 Hours
	LD50	Colinus virginianus (Bobwhite Quail)	2013 mg/kg
Polyethylene Glycol Octylph	enol Ether (CAS	9002-93-1)	
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	2.8 - 3.2 mg/l, 96 hours
Sodium hydroxide (CAS 131	0-73-2)		
Aquatic			
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	34.59 - 47.13 mg/l, 48 hours
Fish	LC50	Western mosquitofish (Gambusia affinis)) 125 mg/l, 96 hours
sistence and degradability	No data is av	ailable on the degradability of this product.	
accumulative potential	No data available.		
pility in soil	No data avai	lable.	
er adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.		

13. Disposal considerations

Disposal instructions	Avoid release to the environment. Do not discharge into drains, water courses or onto the ground. Do not contaminate ponds, waterways or ditches with chemical or used container. Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental releases. This may include destructive techniques for waste and wastewater. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

TDG

Not regulated as dangerous goods.

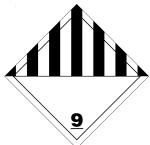
ΙΑΤΑ

•	A	
	UN number	UN3082
	UN proper shipping name	Environmentally hazardous substances, liquid, n.o.s. (Chlorhexidine acetate)
	Transport hazard class(es)	
	Class	9
	Subsidiary risk	-
	Packing group	III
	Environmental hazards	Yes

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. **IMDG**

INIDA	
UN number	UN3082
UN proper shipping name	Environmentally hazardous substances, liquid, n.o.s. (Chlorhexidine acetate), MARINE POLLUTANT (Chlorhexidine acetate)
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Packing group	
Environmental hazards	
Marine pollutant	Yes
EmS	Not available.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not established.

IATA; IMDG



Marine pollutant



General information

IMDG Regulated Marine Pollutant. As of January 1, 2015, materials offered for transport that are classified for transportation only as Marine Pollutants and which are packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 Liters or less for liquids or having a net mass per single or inner packaging of 5 kilograms or less for solids are NOT subject to ICAO/IATA, IMDG, or ADR transport regulations provided the general packaging requirements of those regulations are met. Refer to ICAO/IATA A197, IMDG 2.10.2.7, ADR SP 375.

15. Regulatory information

Canadian regulations

This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

Controlled Drugs and Substances Act

Not regulated. Export Control List (CEPA 1999, Schedule 3) Not listed. Greenhouse Gases Not listed. Precursor Control Regulations Not regulated. International regulations

Stockholm Convention Not applicable. **Rotterdam Convention** Not applicable. Kyoto protocol Not applicable. **Montreal Protocol** Not applicable. **Basel Convention** Not applicable. **International Inventories** Country(s) or region Inventory name Australian Inventory of Chemical Substances (AICS) Australia Canada Domestic Substances List (DSL) С С Е E

Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information

Issue date Version No.	22-May-2017 01
List of abbreviations	ATE: Acute Toxicity Estimate according to REGULATION (EC) No 1272/2008 (CLP).
Disclaimer	Zoetis Inc. believes that the information contained in this Safety Data Sheet is accurate, and while it is provided in good faith, it is without warranty of any kind, expressed or implied. If data for a hazard are not included in this document there is no known information at this time. The information in the sheet was written based on the best knowledge and experience currently available.
Revision information	Product and Company Identification: Synonyms Composition / Information on Ingredients: Ingredients Toxicological Information: Toxicological Data GHS: Classification

On inventory (yes/no)*

Yes

Yes

No