

SAFETY DATA SHEET

1. Identification

Product identifier	Protection That Lives On Microban Professional Brand 24 Hour Keeps Killing 99% of Bacteria For Up To 24 Hours Sanitizing Spray
Other means of identification	
Product code	30130-002
Recommended use	Sanitizing Spray
Recommended restrictions	None known.
Manufacturer/Importer/Supplie	r/Distributor information
Company name	Microban Products Company
Address	11400 Vanstory Drive
	Huntersville, NC 28078
	USA
Telephone	704-875-0806
Email	infoleads@microban.com
Emergency phone number	(24 hr Emergency) 1-800-535-5053 or 1-352-323-3500
2. Hazard(s) identification	1
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Physical hazards	Gases under pressure Liquefied gas	
Health hazards	Not classified.	
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 1
	Hazardous to the aquatic environment, long-term hazard	Category 1
OSHA defined hazards	Not classified.	

Label elements



Warning
Contains gas under pressure; may explode if heated. Very toxic to aquatic life with long lasting effects.
Avoid release to the environment. Observe good industrial hygiene practices.
Collect spillage. Wash hands after handling.
Protect from sunlight. Store in a well-ventilated place.
Dispose of contents/container in accordance with local/regional/national/international regulations.
None known.
None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Nitrogen		7727-37-9	<1
Quaternary Ammonium Compounds, Benzyl-c12-16-alkyldimethyl, Chlorides		68424-85-1	<0.2

Chemical name	Common name and synonyms	CAS number	%
DIDECYL DIMETHYL AMMONI CHLORIDE	IUM	7173-51-5	<0.1
Ethanol		64-17-5	<0.1
4. First-aid measures			
Inhalation	Move to fresh air. Call a physician if symptoms	s develop or persist.	
Skin contact	Wash off with soap and water. Get medical at	tention if irritation develops and	l persists.
Eye contact	Rinse with water. Get medical attention if irrita	tion develops and persists.	
Ingestion	Rinse mouth. Get medical attention if symptor	ns occur.	
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary	<i>i</i> rritation.	
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and trea	at symptomatically.	
General information	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. Carbo	on dioxide (CO2).	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as thi	s will spread the fire.	
Specific hazards arising from the chemical	During fire, gases hazardous to health may be	e formed.	
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full pr	otective clothing must be worn	in case of fire.
Fire fighting equipment/instructions	In case of fire: Stop leak if safe to do so. Do no to heat. Move containers from fire area if you o area, use unmanned hose holder or monitor n out.	can do so without risk. For ma	ssive fire in cargo
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.		
General fire hazards	Contents under pressure. Pressurized contain	er may explode when exposed	to heat or flame.
6. Accidental release meas	sures		
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep peo low areas. Many gases are heavier than air ar confined areas (sewers, basements, tanks). W during clean-up. Emergency personnel need s damaged containers or spilled material unless closed spaces before entering them. Local au cannot be contained. For personal protection,	nd will spread along ground an /ear appropriate protective equ self-contained breathing equipr wearing appropriate protective thorities should be advised if s	d collect in low or lipment and clothing nent. Do not touch e clothing. Ventilate
Methods and materials for containment and cleaning up	Isolate area until gas has dispersed. Prevent e areas. Stop the flow of material, if this is witho place into containers. Clean surface thorough	ut risk. Absorb in vermiculite, o	Iry sand or earth an
	Never return spills to original containers for re-	-use. For waste disposal, see	section 13 of the SE

Environmental precautions

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Level 1 Aerosol.

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not handle or store near an open flame, heat or other sources of ignition. Store in tightly closed container. Store in a well-ventilated place. Stored containers should be periodically checked for general condition and leakage. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

Evaporation rate

Flammability (solid, gas)

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Components	for Air Contaminants (29 CFR 1910 Type	Value	
Ethanol (CAS 64-17-5)	PEL	1900 mg/m3	
		1000 ppm	
US. ACGIH Threshold Limit	Values		
Components	Туре	Value	
Ethanol (CAS 64-17-5)	STEL	1000 ppm	
US. NIOSH: Pocket Guide to	Chemical Hazards		
Components	Туре	Value	
Ethanol (CAS 64-17-5)	TWA	1900 mg/m3	
		1000 ppm	
Biological limit values	No biological exposure limits noted	for the ingredient(s).	
ontrols	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.		
ndividual protection measures, Eye/face protection	such as personal protective equip Wear safety glasses with side shie		
Skin protection			
Hand protection	Wear appropriate chemical resista	nt gloves.	
Other	Wear suitable protective clothing.		
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.		
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.		
General hygiene onsiderations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.		
9. Physical and chemical	properties		
ppearance			
Physical state	Liquid, Gas.		
Form	Liquid. Liquefied gas.		
Color	Clear water-white to Slightly off-wh	ite.	
dor	Not available.		
dor threshold	Not available.		
н	9.5 - 10.5		
lelting point/freezing point	Not available.		
nitial boiling point and boiling ange	Not available.		
lash point	Not available.		
	Notovoilabla		

Not available. Not available.

Upper/lower flammability or explosive limits

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.
Vapor pressure	Not available.
Vapor 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.
Oxidizing properties	Not oxidizing.
Specific gravity	0.99 - 1.01

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.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Excessive heat. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and	Direct contact with eyes may cause temporary irritation.

toxicological characteristics

Acute toxicity

Information on toxicological effects

Based on available data, the classification criteria are not met.

Components	Species	Test Results
DIDECYL DIMETHYL AMM	ONIUM CHLORIDE (CAS 7173-51-5)
Acute		
Dermal		
LD50	Rabbit	2730 mg/kg
Ethanol (CAS 64-17-5)		
Acute		
Inhalation		
LC50	Mouse	39 mg/l, 4 Hours

Components	Species	s	Test Results	
Oral				
LD50	Rat		6.2 g/kg	
kin corrosion/irritation	Prolonged	Prolonged skin contact may cause temporary irritation.		
erious eye damage/eye rritation	Direct contact with eyes may cause temporary irritation.			
Respiratory or skin sensitizatio	n			
Respiratory sensitization	Not a resp	iratory sensitizer.		
Skin sensitization	This produ	ict is not expected to cause skin sensitizat	ion.	
Germ cell mutagenicity		vailable to indicate product or any compon- c or genotoxic.	ents present at greater than 0.1% are	
Carcinogenicity	Not classif	iable as to carcinogenicity to humans.		
IARC Monographs. Overall	Evaluation of	of Carcinogenicity		
Not listed. US. National Toxicology Pr		es (29 CFR 1910.1001-1053)) Report on Carcinogens		
Not listed.	This was do			
Reproductive toxicity	•	ict is not expected to cause reproductive o	i developmental effects.	
pecific target organ toxicity - ingle exposure	Not classif	ied.		
pecific target organ toxicity - epeated exposure	Not classif	ñed.		
spiration hazard	Not an aspiration hazard.			
Chronic effects	Prolonged	inhalation may be harmful.		
12. Ecological information	n			
Ecotoxicity	Very toxic	to aquatic life with long lasting effects.		
Components		Species	Test Results	
DIDECYL DIMETHYL AMMC	NIUM CHLO	PRIDE (CAS 7173-51-5)		
Aquatic				
Fish	LC50	White sturgeon (Acipenser transmontanus)	0.001 - 0.01 mg/l, 96 hours	
Ethanol (CAS 64-17-5)				
Aquatic				
Crustacea	EC50	Water flea (Daphnia magna)	7.7 - 11.2 mg/l, 48 hours	
Fish	LC50	Fathead minnow (Pimephales prome	las) >100 mg/l, 96 hours	
-	pounds, Benz	zyl-c12-16-alkyldimethyl, Chlorides (CAS 6	8424-85-1)	
Aquatic				
Acute	5050	5		
Crustacea	EC50	Daphnia magna	< 1 mg/l, 48 hours	
ersistence and degradability	No data is	available on the degradability of any ingre	edients in the mixture.	
Bioaccumulative potential				
Partition coefficient n-octar Ethanol	nol / water (le	og Kow) -0.31 0.67		
Nitrogen Achility in soil	No data av			
Mobility in soil			deplotion photophomical around practice	
Other adverse effects		dverse environmental effects (e.g. ozone	ntial) are expected from this component.	

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. 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. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT	
UN number	UN1950
UN proper shipping name	Aerosols, non-flammable, (each not exceeding 1 L capacity)
Transport hazard class(es)	
Class	2.2
Subsidiary risk	-
Label(s)	2.2
Packing group	Not available.
Environmental hazards	
Marine pollutant	No
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Packaging exceptions	306
Packaging non bulk	None
Packaging bulk	None
ΙΑΤΑ	
UN number	UN1950
UN proper shipping name	Aerosols, non-flammable
Transport hazard class(es)	
Class	2.2
Subsidiary risk	-
Packing group	Not available.
Environmental hazards	No
ERG Code	2L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo	Allowed with restrictions.
aircraft	
Cargo aircraft only	Allowed with restrictions.
IMDG	
UN number	UN1950
UN proper shipping name	AEROSOLS
Transport hazard class(es)	
Class	2.2
Subsidiary risk	-
Packing group	Not available.
Environmental hazards	
Marine pollutant	No
EmS	F-D, S-U
	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.





General information

Per IATA DGR Special Provision A197, IMDG Code 2.10.2.7, and 49 CFR § 171.4(c), this product, as packaged, is not regulated as a Marine Pollutant due to package size. Regulated as Marine Pollutant if single or inner package size exceeds 5 liters and/or outer packaging exceeds 30kg.

Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers: Ensure that containers are firmly secured. Ensure cylinder valve is closed and not leaking. Ensure valve outlet cap nut or plug (where provided) is correctly fitted. Ensure valve protection device (where provided) is correctly fitted. Ensure adequate ventilation. Ensure compliance with applicable regulations.

15. Regulatory information

US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.	
Toxic Substances Control	Act (TSCA)	
TSCA Section 12(b) Ex	port Notification (40 CFR 707, Subpt. D)	
Not regulated.		
CERCLA Hazardous Substa	ance List (40 CFR 302.4)	
Ethanol (CAS 64-17-5)	Listed.	
SARA 304 Emergency release notification		
Not regulated.		
	ed Substances (29 CFR 1910.1001-1053)	
Not listed.		
	eauthorization Act of 1986 (SARA)	
SARA 302 Extremely hazar Not listed.	dous substance	
SARA 311/312 Hazardous chemical	Yes	
Classified hazard categories	Gas under pressure	
SARA 313 (TRI reporting) Not regulated.		
Other federal regulations		
Clean Air Act (CAA) Section Not regulated.	n 112 Hazardous Air Pollutants (HAPs) List	
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated.		

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Ethanol (CAS 64-17-5)

Low priority

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals.

US state regulations

FIFRA Information

California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

16. Other information, including date of preparation or last revision

Issue date	13-November-2017
Revision date	13-March-2019
Version #	05
HMIS® ratings	Health: 0 Flammability: 0 Physical hazard: 3
NFPA ratings	Health: 0 Flammability: 0 Instability: 3
NFPA ratings	
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.
Revision information	Composition / Information on Ingredients: Disclosure Overrides Transport Information: Material Transportation Information Transport information: General information Regulatory information: Safe Drinking Water Act (SDWA)