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SECTION 1. PRODUCT AND	COMPANY IDENTIFICATION	

Material name	:	Spray Disinfectant II	
EPA ID Number:		33176-5-1270	
Material number	:	00000000001042454	
Manufacturer or supplier's details			
Company	:	Zep, Inc.	
Address	:	1310 Seaboard Industrial Blvd., NW Atlanta, GA 30318	
Telephone	:	404-352-1680	

Emergency telephone numbers

For SDS Information	:	Compliance Services 1-877-428-9937
For a Medical Emergency	:	877-541-2016 Toll Free - All Calls Recorded
For a Transportation	:	CHEMTREC: 800-424-9300 - All Calls Recorded.
Emergency		In the District of Columbia 202-483-7616

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance	Aerosol containing a liquefied gas
Colour	colourless, light yellow
Odour	pleasant

GHS Classification

Flammable aerosols Gases under pressure Eye irritation	: Category 2 : Liquefied gas : Category 2A
GHS Label element	
Hazard pictograms	
Signal word	: Warning
Hazard statements	 H223 Flammable aerosol. H280 Contains gas under pressure; may explode if heated. H319 Causes serious eye irritation.
Precautionary statements	 Prevention: P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211 Do not spray on an open flame or other ignition source. P251 Pressurized container: Do not pierce or burn, even after



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	use. P264 Wash skin thoroughly after H P280 Wear eye protection/ face p Response: P305 + P351 + P338 IF IN EYES: for several minutes. Remove cont easy to do. Continue rinsing. P337 + P313 If eye irritation persis attention. Storage: P410 + P412 Protect from sunligh temperatures exceeding 50 °C/ 12 Disposal: P501 Dispose of contents/contain regulation.	rotection. Rinse cautiously with water act lenses, if present and sts: Get medical advice/ t. Do not expose to 22 °F.
Potential Health Effects		
Carcinogenicity:		
IARC	No component of this product present equal to 0.1% is identified as probable human carcinogen by IARC.	
ACGIH	No component of this product present equal to 0.1% is identified as a carcin carcinogen by ACGIH.	
OSHA	No component of this product present equal to 0.1% is identified as a carcin carcinogen by OSHA.	
NTP	No component of this product present equal to 0.1% is identified as a known by NTP.	-

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical Name	CAS-No.	Concentration [%]
ethanol	64-17-5	>= 30 - < 50
butane	106-97-8	>= 10 - < 20
propane	74-98-6	>= 1 - < 5
propan-2-ol	67-63-0	>= 1 - < 5
sodium nitrite	7632-00-0	>= 0.1 - < 1

SECTION 4. FIRST AID MEASURES

General advice	: Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.
If inhaled	: If unconscious place in recovery position and seek medical advice.



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	If symptoms persist, call a physician	
In case of skin contact	 If skin irritation persists, call a physic Wash off immediately with plenty of minutes. If on clothes, remove clothes. 	
In case of eye contact	 Rinse immediately with plenty of war If eye irritation persists, consult a sp Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. 	
If swallowed	: Keep respiratory tract clear. Never give anything by mouth to an If symptoms persist, call a physician DO NOT induce vomiting unless dire physician or poison control center. Take victim immediately to hospital.	

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Water spray jet Carbon dioxide (CO2) Alcohol-resistant foam Dry chemical	
Unsuitable extinguishing media	: High volume water jet	
Specific hazards during firefighting	: Do not allow run-off from fire fighting to enter drains or wa courses.	ter
Hazardous combustion products	: Carbon dioxide (CO2) Carbon monoxide Smoke	
Specific extinguishing methods	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.	
Further information	 Collect contaminated fire extinguishing water separately. must not be discharged into drains. Fire residues and contaminated fire extinguishing water m be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers. 	
Special protective equipment for firefighters	: Wear self-contained breathing apparatus for firefighting if necessary.	

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions,	: Use personal protective equipment.	
protective equipment and	Ensure adequate ventilation.	



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emergency procedures	Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to concentrations. Vapours can accu	o form explosive
Environmental precautions	: Prevent product from entering drai Prevent further leakage or spillage If the product contaminates rivers respective authorities.	if safe to do so.
Methods and materials for containment and cleaning up	: Soak up with inert absorbent mate acid binder, universal binder, sawc Sweep up or vacuum up spillage a container for disposal.	lust).

SECTION 7. HANDLING AND STORAGE

Advice on safe handling	 Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Do not breathe vapours or spray mist. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations. Always replace cap after use.
Conditions for safe storage	 BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects. No smoking. Observe label precautions. Keep in a dry, cool and well-ventilated place. Electrical installations / working materials must comply with the technological safety standards.
Materials to avoid	: Oxidizing agents

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
ethanol	64-17-5	TWA	1,000 ppm	ACGIH
		TWA	1,000 ppm 1,900 mg/m3	NIOSH REL
		TWA	1,000 ppm	OSHA Z-1
			1,900 mg/m3	
		TWA	1,000 ppm	OSHA P0



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	1	1	1,900 mg/m3	
butane	106-97-8	TWA	800 ppm 1,900 mg/m3	NIOSH REL
		TWA	800 ppm 1,900 mg/m3	OSHA P0
propane	74-98-6	TWA	1,000 ppm	ACGIH
		TWA	1,000 ppm 1,800 mg/m3	NIOSH REL
		TWA	1,000 ppm 1,800 mg/m3	OSHA Z-1
		TWA	1,000 ppm 1,800 mg/m3	OSHA P0
propan-2-ol	67-63-0	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
		TWA	400 ppm 980 mg/m3	NIOSH REL
		ST	500 ppm 1,225 mg/m3	NIOSH REL
		TWA	400 ppm 980 mg/m3	OSHA Z-1
		TWA	400 ppm 980 mg/m3	OSHA P0
		STEL	500 ppm 1,225 mg/m3	OSHA P0

Biological occupational exposure limits

Component	CAS-No.	Control	Biological	Sampling	Permissible	Basis
		parameters	specimen	time	concentration	
PROPAN-2-OL	67-63-0	Acetone	Urine	End of shift at end of workwee k	40 mg/l	ACGIH BEI

Personal protective equipment

Respiratory protection	:	Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.
Hand protection		
Remarks	:	The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Eye protection	:	Safety glasses Ensure that eyewash stations and safety showers are close to the workstation location.
Skin and body protection	:	impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Hygiene measures	:	When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.



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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Aerosol containing a liquefied ga	as
Colour	: colourless, light yellow	
Odour	: pleasant	
Odour Threshold	: no data available	
рН	: 10 - 11	
Melting point/freezing point	: no data available	
Boiling point	: no data available	
Flash point	:	
	no data available	
Evaporation rate	: no data available	
Flammability (solid, gas)	: Flammable aerosol.	
Linner evelopien limit		
Upper explosion limit	: no data available	
Lower explosion limit	: no data available	
Vapour pressure	: no data available	
Relative vapour density	: no data available	
Density	: 0.895 g/cm3	
Solubility(ies)		
Water solubility	: soluble	
Solubility in other solvents	: not determined	
Partition coefficient: n- octanol/water	: no data available	
Auto-ignition temperature	: not determined	
Thermal decomposition	: no data available	
Viscosity		
Viscosity, kinematic	: no data available	
Heat of combustion	: 24.20 kJ/g	
	-	

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Stable
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Vapours may form explosive mixture with air. No decomposition if stored and applied as directed.



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Conditions to avoid	:	Extremes of temperature and direct sun Heat, flames and sparks.	light.
Incompatible materials	:	Oxidizing agents Reducing agents	
Hazardous decomposition products	:	Carbon oxides	

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

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Product:	
Acute oral toxicity	: Acute toxicity estimate : > 5,000 mg/kg Method: Calculation method
Components:	
ethanol: Acute oral toxicity	: LD50 Oral rat: 7,060 mg/kg
Acute inhalation toxicity	: LC50 rat: 124.7 mg/l Exposure time: 4 h
butane: Acute inhalation toxicity	: LC50 mouse: 1,237 mg/l Exposure time: 2 h
	LC50 rat: 1,355 mg/l
propane: Acute inhalation toxicity	: LC50 mouse: 1,237 mg/l Exposure time: 2 h
	LC50 rat: 658 mg/l Exposure time: 4 h
	LC50 rat: 1,355 mg/l
propan-2-ol: Acute oral toxicity	: LD50 Oral rat: 4,396 mg/kg Method: Calculation method
in corrosion/irritation	

Skin corrosion/irritation

Product:

Remarks: May cause skin irritation in susceptible persons.

Serious eye damage/eye irritation



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Product:

Remarks: Irritating to eyes.

Respiratory or skin sensitisation

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

ethanol: butane: propane: propan-2-ol: sodium nitrite:

STOT - single exposure

no data available

STOT - repeated exposure

no data available

Aspiration toxicity

no data available

Further information

Product:

Remarks: no data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

no data available

Persistence and degradability

no data available Bioaccumulative potential

Product:

Partition coefficient: n- octanol/water <u>Components:</u>	: Remarks: no data available
butane : Partition coefficient: n-	: Pow: 2.89



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octanol/water		
Mobility in soil		
no data available		
Other adverse effects		
no data available <u>Product:</u>		
Regulation	40 CFR Protection of Environment; Stratospheric Ozone - CAA Section Substances	
Remarks	This product neither contains, nor w with a Class I or Class II ODS as de Clean Air Act Section 602 (40 CFR + B).	fined by the U.S.
Additional ecological information	: An environmental hazard cannot be event of unprofessional handling or aquatic life.	

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	 Dispose of in accordance with local regulations. Do not contaminate ponds, waterways or ditches with chemical or used container. The product should not be allowed to enter drains, water courses or the soil.
Contaminated packaging	 Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION

Transportation Regulation: 49 CFR (USA): ORM-D, CONSUMER COMMODITY Transportation Regulation: IMDG (Vessel): UN1950, AEROSOLS, 2.1, - Limited quantity

Transportation Regulation: IATA (Cargo Air): UN1950, Aerosols, flammable, 2.1, - Limited quantity

Transportation Regulation: IATA (Passenger Air): UN1950, Aerosols, flammable, 2.1, - Limited quantity



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Transportation Regulation: TDG (Canada): UN1950, AEROSOLS, 2.1, - Limited quantity

SECTION 15. REGULATORY INFORMATION

This product is regulated under the United States Federal Insecticide, Fungicide and Rodenticide Act (FIFRA).

Pesticide Labeling Information Required Under U.S. FIFRA Regulations

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. Following is the hazard information as required on the pesticide label: CAUTION Harmful if inhaled.

Causes moderate eye irritation.

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
sodium nitrite	7632-00-0	100	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
ammonia, anhydrous	7664-41-7	100	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 311/312 Hazards	3 :	Fire Hazard Sudden Release of Pressure Hazard Acute Health Hazard
SARA 302	:	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313	:	SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
California Prop 65 bipheny	/l-2-ol	WARNING! This product contains a chemical known to the State of California to cause cancer. 90-43-7
The components of this product are reported in the following inventories:		
TSCA DSL	This pro	CA Inventory oduct contains one or several components that are not on the an DSL nor NDSL.



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AICS	Not in compliance with the inventory	
NZIOC	Not in compliance with the inventory	
PICCS	Not in compliance with the inventory	
IECSC	Not in compliance with the inventory	

Inventory Acronym and Validity Area Legend:

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIOC (New Zealand), PICCS (Philippines), TSCA (USA)

SECTION 16. OTHER INFORMATION



OSHA GHS Label Information:

Hazard pictograms	
Signal w ord	: Warning:
Hazard statements	: Flammable aerosol. Contains gas under pressure; may explode if heated. Causes serious eye irritation.
Precautionary statements	:
	Prevention: Keep aw ay from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Wash skin thoroughly after handling. Wear eve protection/face protection.
	Response: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: G medical advice/ attention.
	Storage: Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.
	Disposal: Dispose of contents/container in accordance with local regulation.

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