

LOW TEMP DISHMACHINE SANITIZER

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name

: LOW TEMP DISHMACHINE SANITIZER

Other means of identification

Not applicable

Recommended use

Sanitizer

Restrictions on use

Reserved for industrial and professional use.

Product dilution information

0.00024 % - 0.84 %

UP TO 14 OZ/13 GAL OF WATER

Company

PureForce

370 N. Wabasha Street

St. Paul, Minnesota USA 55102

1-866-444-7450

Emergency telephone

1-800-328-0026 (US/Canada), 1-651-222-5352 (outside US)

Issuing date

03/04/2015

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Product AS SOLD

Oxidizing liquids

: Category 2

Skin corrosion

: Category 1A

Serious eye damage

: Category 1

Product AT USE DILUTION

Acute toxicity (Oral)

Acute toxicity (Dermal)

Category 4 : Category 4

Eye irritation

Category 2B

GHS Label element

Product AS SOLD

Hazard pictograms





Signal Word

: Danger

Hazard Statements

: May intensify fire; oxidizer.

Causes severe skin burns and eye damage.

Precautionary Statements

: Prevention:

Keep away from heat. Keep/Store away from clothing/ combustible materials. Take any precaution to avoid mixing with combustibles. Wash skin thoroughly after handling. Wear protective gloves/

protective clothing/ eye protection/ face protection. Mixing this product

with acid or ammonia releases chlorine gas.

Response:

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF INHALED: Remove victim to fresh

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air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician. Wash contaminated clothing before reuse. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage:

Store locked up.

Disposal:

Dispose of contents/ container to an approved waste disposal plant.

Product AT USE DILUTION

Hazard pictograms



Signal Word

Caution

Hazard Statements

Harmful if swallowed or in contact with skin.

Causes eye irritation.

Precautionary Statements

: Prevention:

Wash skin thoroughly after handling. Do not eat, drink or smoke when

using this product.

Response:

IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth. If eye irritation persists: Get medical advice/ attention. Wash contaminated clothing before reuse.

Disposal:

Dispose of contents/ container to an approved waste disposal plant.

Other hazards

: None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Product AS SOLD

Pure substance/mixture

Mixture

Chemical Name

CAS-No.

Concentration (%)

sodium hypochlorite

7681-52-9

8.4

Product AT USE DILUTION

Chemical Name sodium hypochlorite CAS-No.

Concentration (%)

7681-52-9

0.071

SECTION 4. FIRST AID MEASURES

Product AS SOLD

In case of eye contact

: Rinse immediately with plenty of water, also under the eyelids, for at

least 15 minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. Get medical attention immediately.

In case of skin contact

: Wash off immediately with plenty of water for at least 15 minutes. Use

2/11

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a mild soap if available. Wash clothing before reuse. Thoroughly clean

shoes before reuse. Get medical attention immediately.

If swallowed : Rinse mouth with water, Do NOT induce vomiting. Never give

anything by mouth to an unconscious person. Get medical attention

immediately.

If inhaled : Remove to fresh air. Treat symptomatically. Get medical attention if

symptoms occur.

: If potential for exposure exists refer to Section 8 for specific personal Protection of first-aiders

protective equipment.

Notes to physician : Treat symptomatically.

Most important symptoms : See Section 11 for more detailed information on health effects and

and effects, both acute and delayed

symptoms.

Product AT USE DILUTION

In case of eye contact Rinse with plenty of water.

: Wash off immediately with plenty of water for at least 15 minutes. Use In case of skin contact

> a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation develops and

persists.

Rinse mouth. Get medical attention if symptoms occur. If swallowed

If inhaled Get medical attention if symptoms occur.

SECTION 5. FIRE-FIGHTING MEASURES

Product AS SOLD

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Unsuitable extinguishing

media

None known.

Specific hazards during fire

fiahtina

Oxidizer. Contact with other material may cause fire.

Hazardous combustion

products

Decomposition products may include the following materials:

Carbon oxides

Nitrogen oxides (NOx)

Sulfur oxides

Oxides of phosphorus

Special protective equipment

for fire-fighters

: Use personal protective equipment.

Specific extinguishing

methods

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire

and/or explosion do not breathe fumes.

SECTION 6. ACCIDENTAL RELEASE MEASURES

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Product AS SOLD

Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

Environmental precautions

: Do not allow contact with soil, surface or ground water.

Methods and materials for containment and cleaning up

: Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

Product AT USE DILUTION

Personal precautions, protective equipment and emergency procedures Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

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Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

SECTION 7. HANDLING AND STORAGE

Product AS SOLD

Advice on safe handling

Do not ingest. Do not get in eyes, on skin, or on clothing. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Use only with adequate ventilation. Wash hands thoroughly after handling. Mixing this product with acid or ammonia releases chlorine gas.

Conditions for safe storage

: Keep in a cool, well-ventilated place. Do not store near acids. Keep away from reducing agents. Keep away from combustible material. Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.

Storage temperature

: -15 °C to 40 °C

Product AT USE DILUTION

Advice on safe handling

: Wash hands thoroughly after handling.

Conditions for safe storage

: Keep out of reach of children. Store in suitable labeled containers.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Product AS SOLD

Ingredients with workplace control parameters

Ingredients	CAS-No.	Form of	Permissible	Basis	
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LOW TEMP DISHMACHINE SANITIZER

***		exposure	concentration	
sodium hypochlorite	7681-52-9	STEL	2 mg/m3	WEEL
chlorine	7782-50-5	TWA	0.5 ppm	ACGIH
		STEL	1 ppm	ACGIH
		Ceiling	0.5 ppm 1.45 mg/m3	NIOSH REL
		С	1 ppm 3 mg/m3	OSHA Z1

Engineering measures : Effective exhaust ventilation system Maintain air concentrations below

occupational exposure standards.

Personal protective equipment

Eye protection : Safety goggles

Face-shield

Hand protection : Wear the following personal protective equipment:

Standard glove type.

Gloves should be discarded and replaced if there is any indication of

degradation or chemical breakthrough.

Skin protection : Personal protective equipment comprising: suitable protective gloves,

safety goggles and protective clothing

Respiratory protection : When workers are facing concentrations above the exposure limit they

must use appropriate certified respirators.

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes

and body in case of contact or splash hazard.

Product AT USE DILUTION

Engineering measures : Effective exhaust ventilation system Maintain air concentrations below

occupational exposure standards.

Personal protective equipment

Eye protection :: No special protective equipment required.

Hand protection : No special protective equipment required.

Skin protection : No special protective equipment required.

Respiratory protection . No personal respiratory protective equipment normally required.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Product AS SOLD Product AT USE DILUTION

Appearance : liquid liquid

Color : light yellow colorless

Odor : Chlorine slight chlorine

pH : 12.5, 100 % 6.0 - 9.5

LOW TEMP DISHMACHINE SANITIZER

: Not applicable Flash point No data available Odor Threshold Melting point/freezing point : No data available No data available Initial boiling point and

boiling range

: No data available Evaporation rate : No data available Flammability (solid, gas) : No data available Upper explosion limit Lower explosion limit : No data available Vapor pressure : No data available Relative vapor density : No data available

: 1.154 Relative density

: No data available Water solubility Solubility in other solvents : No data available Partition coefficient: n-: No data available

octanol/water

Autoignition temperature : No data available Thermal decomposition : No data available No data available Viscosity, kinematic : No data available Explosive properties No data available Oxidizing properties No data available Molecular weight VOC No data available

SECTION 10. STABILITY AND REACTIVITY

Product AS SOLD

: Stable under normal conditions. Chemical stability

Possibility of hazardous

reactions

: Mixing this product with acid or ammonia releases chlorine gas.

Conditions to avoid : None known.

Incompatible materials : Acids

Metals

Hazardous decomposition

products

Decomposition products may include the following materials:

Carbon oxides

Nitrogen oxides (NOx)

Sulfur oxides

Oxides of phosphorus

SECTION 11. TOXICOLOGICAL INFORMATION

exposure

Information on likely routes of : Inhalation, Eye contact, Skin contact

Potential Health Effects

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Product AS SOLD

Eyes

: Causes serious eye damage.

Skin

Causes severe skin burns.

Ingestion

: Causes digestive tract burns.

Inhalation

May cause nose, throat, and lung irritation.

Chronic Exposure

Health injuries are not known or expected under normal use.

Product AT USE DILUTION

Eyes

: Causes eye irritation.

Skin

Harmful in contact with skin.

Ingestion

Harmful if swallowed.

Inhalation

Health injuries are not known or expected under normal use.

Chronic Exposure

: Health injuries are not known or expected under normal use.

Experience with human exposure

Product AS SOLD

Eye contact

: Redness, Pain, Corrosion

Skin contact

Redness, Pain, Corrosion

Ingestion

Corrosion, Abdominal pain

Inhalation

Respiratory irritation, Cough

Product AT USE DILUTION

Eye contact

Redness, Irritation

Skin contact

No information available.

Ingestion

No information available.

Inhalation

: No symptoms known or expected.

Toxicity

Product AS SOLD

Acute oral toxicity

: No data available

Acute inhalation toxicity

No data available

Acute dermal toxicity

No data available

Skin corrosion/irritation

No data available

Respiratory or skin sensitization

No data available

Carcinogenicity

No data available

Reproductive effects

No data available

Germ cell mutagenicity

No data available

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Teratogenicity : No data available STOT-single exposure : No data available STOT-repeated exposure : No data available

Ingredients

Aspiration toxicity

Acute oral toxicity : sodium hypochlorite

LD50 Rat: 5,230 mg/kg

: No data available

Ingredients

Acute inhalation toxicity : sodium hypochlorite

1 h LC50 Rat: > 10,500 mg/l

Ingredients

Acute dermal toxicity : sodium hypochlorite

LD50 Rabbit: > 10,000 mg/kg

SECTION 12. ECOLOGICAL INFORMATION

Product AS SOLD

Ecotoxicity

Environmental Effects : Very toxic to aquatic life.

Product

Toxicity to fish : 96 h LC50 Oncorhynchus mykiss (rainbow trout): 2.1 mg/l

96 h LC50 Inland Silverside: 7.6 mg/l

aquatic invertebrates

Toxicity to daphnia and other : 48 h LC50 Daphnia dubia (Water flea): 0.57 mg/l

48 h LC50 Americamysis bahia: 18.1 mg/l

Toxicity to algae : No data available

Persistence and degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Product AS SOLD

: The product should not be allowed to enter drains, water courses or Disposal methods

> the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste

disposal facility.

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Disposal considerations

: Dispose of as unused product. Empty containers should be taken to

an approved waste handling site for recycling or disposal. Do not re-

use empty containers.

RCRA - Resource

Conservation and Recovery Authorization Act Hazardous

waste

: D002 (Corrosive)

Product AT USE DILUTION

Disposal methods

Diluted product can be flushed to sanitary sewer.

Disposal considerations

Dispose of in accordance with local, state, and federal regulations.

SECTION 14. TRANSPORT INFORMATION

Product AS SOLD

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (DOT)

UN number

: 1791

Description of the goods

: Hypochlorite solutions

Class

: 8

Packing group

: 111

Environmentally hazardous

: no

Sea transport (IMDG/IMO)

UN number

: 1791

Description of the goods

: HYPOCHLORITE SOLUTION

Class

: 8

Packing group Marine pollutant : 111 : yes

Product AT USE DILUTION

Not intended for transport.

SECTION 15. REGULATORY INFORMATION

Product AS SOLD

EPA Registration number

: 1677-52-541

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

Ingredients	CAS-No.	Component RQ (lbs)	Calculated product RQ
			(lbs)
sodium hypochlorite	7681-52-9	100	1000

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards

: Acute Health Hazard

Fire Hazard

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SARA 302 : No chemicals in this material are subject to the reporting requirements

of SARA Title III, Section 302.

This material does not contain any chemical components with known **SARA 313**

CAS numbers that exceed the threshold (De Minimis) reporting levels

established by SARA Title III, Section 313.

California Prop 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

The ingredients of this product are reported in the following inventories:

Switzerland. New notified substances and declared preparations :

On the inventory, or in compliance with the inventory

United States TSCA Inventory:

On TSCA Inventory

Canadian Domestic Substances List (DSL):

All components of this product are on the Canadian DSL.

Australia Inventory of Chemical Substances (AICS):

On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemical Substances:

On the inventory, or in compliance with the inventory

Japan. ENCS - Existing and New Chemical Substances Inventory :

On the inventory, or in compliance with the inventory

Japan. ISHL - Inventory of Chemical Substances (METI):

On the inventory, or in compliance with the inventory

Korea. Korean Existing Chemicals Inventory (KECI):

On the inventory, or in compliance with the inventory

Philippines Inventory of Chemicals and Chemical Substances (PICCS):

On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances in China (IECSC):

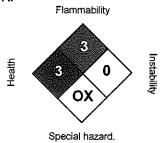
On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

Product AS SOLD

OW TEMP DISHMACHINE SANITIZER

NFPA:



HMIS III:

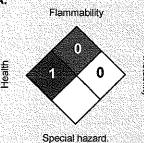
PHYSICAL HAZARD	2
FLAMMABILITY	3
HEALTH	3

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High 4 = Extreme, * = Chronic

Product AT USE DILUTION

NFPA:



HMIS III:

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	FLAMMABILITY	0
September (F	PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High 4 = Extreme, * = Chronic

Issuing date

03/04/2015

Version 1.4 Prepared by

Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Material 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.