

Good food. Responsibly.

Smithfield Foods 800 Industrial Dr Denison, Iowa 51442

4-29-2020

Russel Perry Iowa OSHA Administrator Iowa Division of Labor Des Moines 150 Des Moines Des Moines, Iowa, 50309

Re: 1577952

Dear Mr. Perry,

This is letter is in response to the correspondence and 1577952 received from your office on April 24, 2020.

Our facility has had 12 employees who have confirmed to have COVID-19. We have conducted a risk assessment and have attached a copy. The risk assessment includes the control measures implemented as noted throughout this document. Consistent with our Hazard ID and Risk Assessment process, the Covid-19 HIRA has also been shared with our employees throughout the facility. The HIRA was posted and elements have been shared verbally as described below.

Smithfield Foods, is considered a critical infrastructure operating facility in the food and agriculture industry, as defined by the U.S. Department of Homeland Security. As such, our workers are needed to maintain the continuity of our processing functions. We have instituted policies and protocols that strictly follow guidance from the Centers for Disease Control and Prevention (CDC) and OSHA. Among other things, we have taken the following steps:

- Educated employees about COVID-19 including symptoms and how to prevent spread of the virus;
- Instructed employees to stay home if sick, if they have exposure to someone diagnosed with COVID-19, or have traveled internationally;
- Encouraged good hygiene, including frequent and thorough hand washing and use of alcohol based hand sanitizer, and covering coughs and sneezes.

 Personnel self-identified with potential elevated risk are allowed to work from home or stay home.

We have communicated these protective measures verbally in meetings and in individual communications. Employees receive additional reminders as they enter pre-screening each day. In addition to verbal communications, we have signage and postings up throughout the facility. We also had a video message from our CEO, Ken Sullivan that played on our televisions in the break rooms. Additional communications are sent out via our Bee Keeper App which we've encouraged for all employees to download and subscribe to on their smartphones. In addition to the steps noted above, we have prohibited all non-essential visitors to our facility.

Our facility has implemented health screenings for all personnel prior to entering the facility to include temperature scans. This takes place on all shifts. We have also set up an area for secondary screening for anyone identified with an elevated temperature at initial screening. Employees who present with fevers during the secondary screening, or have any other COVID-19 symptoms, are sent home with instructions to quarantine for 14 days. We have designated a trained individual for each shift as the primary contact for employees with questions, symptoms or other concerns with regards to COVID-19. Employees who become sick while at work are sent home.

Due to the nature of our business, employees in production areas are issued nitrile gloves to prevent the spread of germs as part of their required attire. This PPE was in place prior to COVID-19. Washing and sanitizing hands multiple times daily also is part of our pre-existing normal required work practices, but we have reiterated and emphasized the importance of these steps in our communications during this pandemic. We have also added additional sanitizer stations throughout the facility. Upon entry to the facility, personnel (including non-production employees) have been issued facemasks and face shields. These infection management steps are monitored by management and quality assurance personnel while non-management employees are encouraged to monitor themselves and others.

Our production facility undergoes regular cleaning and sanitation by a third-party service contractor. Soon after news of COVID-19 broke, we began additional cleaning and disinfecting of frequently touched surfaces in welfare and common areas of our facility including restrooms and locker rooms with cleaning solutions approved by the EPA for this purpose. This additional cleaning and disinfecting is completed multiple times throughout each day. Areas cleaned and disinfected outside the production areas include:

- Countertops,
- copy machine control panel,
- tables, sink, faucets,
- all door panels and handles
- handrails on all stairwells
- time clock control panels
- light switch covers

In our breakrooms, we have disconnected vending machines and microwaves to assist in preventing the spread of Covid-19. In addition to routine cleaning and disinfecting the common areas during the work week, we initiated fogging in the welfare areas of the facility twice each week. Prior to this process, meetings were conducted to provide information regarding the process and chemical utilized in the process. We have also added safety signage/postings for the process.

Where possible, we have implemented social distancing and are continuously evaluating additional social distancing measures we could take consistent with maintaining food production as an essential business. These efforts include staggering breaks to assist in keeping with social distancing in the breakroom and locker room. We have also installed partitions on break room tables and added additional seating in hallways and throughout welfare areas. To assist with social distancing we erected a large tent and picnic tables with dividers for additional break and lunch space and opened conference rooms for additional seating at break times. In As noted with production areas, personnel are also scheduled to monitor social distancing of breakrooms and welfare areas.

While our plant is operating, we have reduced line speed and are working half day on cut & kill and have also staggered the work schedule to assist with social distancing. Employees self-identifying as high risk are allowed to quarantine at home and others with jobs that allow them to do so are working from home.

Attached are photos with examples of some of the measures described in this document. At Smithfield Foods, we are committed to the health and wellbeing of our employees. We are confident that the measures we've taken are protecting our employees; as we have not had any diagnosed case among our workers at this location. If you have further questions, or I can be of further assistance, please contact me.

Respectfully,

Darrin Walker

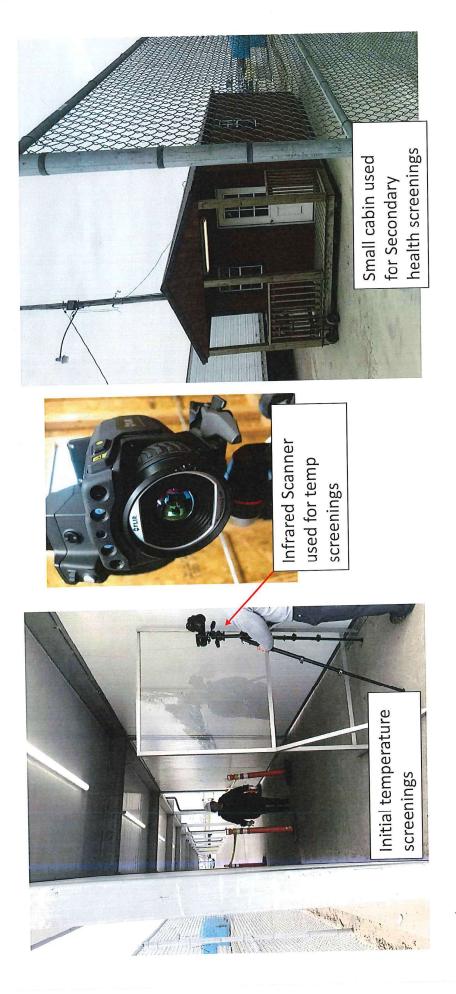
**General Manager** 

Bill Mischnick

Plant Safety Manager

	MONITORING OF CONTROL Monitoring for effectiveness	Security Dept., / Safety Dept., monitors screening of essential visitors. Safety Dept. monitors and tracks monitors botential exposures and directs employee quarantines. HR Dept. & Mgmt. monitors postings and video loops. Mgmt. monitors all employees for PPE usage and good hygiene practices.
	в пкешноор	4
	8 EXPOSURE	£1
	7 SEVERITY	g
CONTROLS What is done to prevent exposure to this hazard?		Engineering: Work Space Partitions, Cafeteria Table Separation, Common Area Partitions: Administrative: Temp Screen Plant Entry, Touch Point Cleaning, Workstation Sanitizers, Social Distancing Rules, HandWash Rules; PPE: Face Masks, Face Shields determined per CDC guidance Restrict plant entry to one. Allow essential visitors only. Screen all visitors' travel history and health. Conduct helath screening of all personel prior properties and long the sanitzing body temperature scans; turn away those with fever and/or symptoms. Training to all employees on infectious disease, good health and hygiene practices, stay at home if symptoms arise, cover coughs, frequent hand washing/sanitzing and social distancing, face mask use. Communicate CDC posters in various languages in the break room and main hallway. Install additional sanitzing stations at entrances and shared areas. Perform additional surface sanitting of general welfare areas. Perform additional surface sanitting of general welfare areas and offices. Limit gatherings to less than ten. Stagger breaks and start times to limit ee contact. Separate break room seating and add partions to allow for 6' distance between ees. Conduct meetings via electronic media. Install physical barriers between work stations (welfare areas. Wear per-disposable face mask and face shields; nitrile gloves, full face hairnet. Demarking on the flooring in designated areas and rearrange conference room to provide social distancing.
	CONTRIBUTIONG FACTORS, PROCESSES, TASKS. (Why does the hazard exist?)	Increased global travel and integration, tribalization, working / socializing in close quarters, fellow employees continuing to work while ill
Denison General Hazards 4/29/2020	William Mischnick HAZARD CATEGORY Routine, non-routine, or 1	Non- Routine
Location Do Area Garante Date last reviewed 4	Lead Assesor  HAZARD  Consider all tasks, activities, situations, conditions	Large-scale outbreaks of infectious disease that can greatly increase morbidity and mortality of employees

# Initial and Secondary Screening



# Signs, Postings & Communications





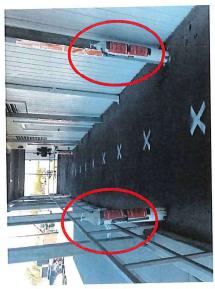








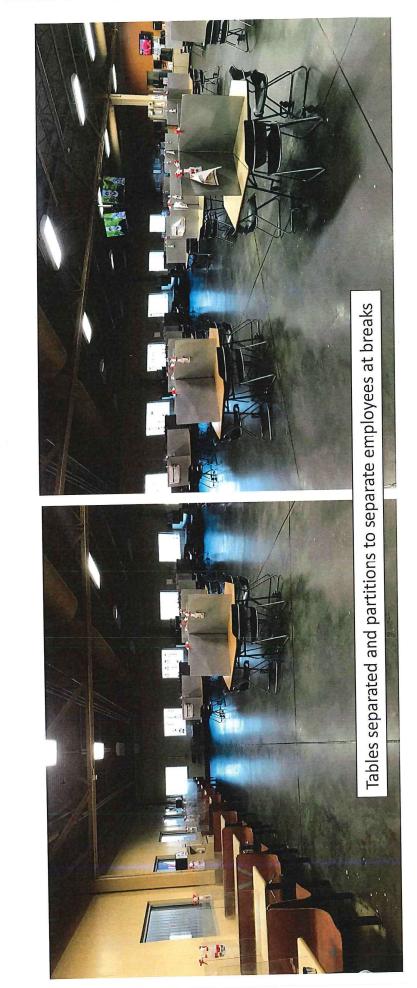






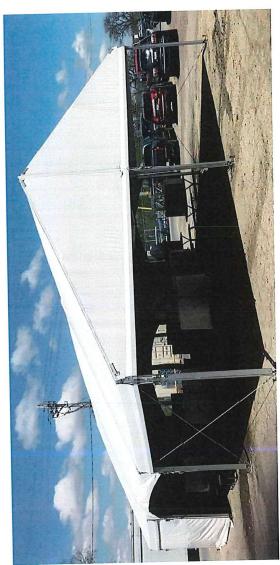








Tents and tables installed to provide additional room for distancing during breaks







# Alcohol Antiseptic 80% Topical Solution

# SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name

: Alcohol Antiseptic 80% Topical Solution

Other means of identification

not applicable

Recommended use

**Hand Sanitizer** 

Restrictions on use

Reserved for industrial and professional use.

Product dilution information

Product is sold ready to use.

Company

Cedar Ridge Distillery 1441 Marak Rd. Swisher, Iowa 52338 1-319-857-4300

Emergency telephone

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

Issuing date

03/22/2020

# **SECTION 2. HAZARDS IDENTIFICATION**

#### **GHS Classification**

Flammable liquids Eye irritation

: Category 3 : Category 2A

#### **GHS Label element**

Hazard pictograms



Signal Word

: Warning

**Hazard Statements** 

Flammable liquid and vapor. Causes serious eye irritation.

**Precautionary Statements** 

Prevention:

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Keep container tightly closed.

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: Get medical advice/ attention. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage:

Store in a well-ventilated place. Keep cool.

Disposal:

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

Other hazards

: None known.

# SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture

Mixture

# Alcohol Antiseptic 80% Topical Solution

**Chemical Name** ethanol

CAS-No.

Concentration (%)

64-17-5

# SECTION 4. FIRST AID MEASURES

In case of eye contact

: Rinse with water.

In case of skin contact

: Rinse with water.

If swallowed

: Rinse mouth. Get medical attention if symptoms occur.

If inhaled

: Get medical attention if symptoms occur.

Protection of first-aiders

: No special precautions are necessary for first aid responders.

Notes to physician

: Treat symptomatically.

See toxicological information (Section 11)

# SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

: Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during fire

flahting

: Fire Hazard

Keep away from heat and sources of ignition. Flash back possible over considerable distance.

Beware of vapors accumulating to form explosive concentrations.

Vapors can accumulate in low areas.

Hazardous combustion

products

: Carbon oxides

Special protective equipment

for fire-fighters

: Use personal protective equipment.

Specific extinguishing

methods

: Use water spray to cool unopened containers. 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

Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. 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 Eliminate all Ignition sources if safe to do so. 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.

# **Alcohol Antiseptic 80% Topical Solution**

# SECTION 7. HANDLING AND STORAGE

Advice on safe handling

 Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Keep away from fire, sparks

and heated surfaces.

Conditions for safe storage

: Keep away from heat and sources of ignition. Keep in a cool, well-ventilated place. Keep away from oxidizing agents. Keep out of reach of children. Keep container tightly closed. Store in suitable labeled

containers.

Storage temperature

: 0 °C to 35 °C

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Ingredients with workplace control parameters

Ingredients	CAS-No.	Form of exposure	Permissible concentration	Basis
	64-17-5	TWA	1,000 ppm	ACGIH
ethanol	U+-17-5	TWA	1,000 ppm 1,900 mg/m3	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m3	OSHA Z1

Engineering measures

: Good general ventilation should be sufficient to control worker

exposure to airborne contaminants.

# 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.

Hygiene measures

: No specific measures identified.

# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

; liquid

Color

; clear

Odor

: alcoholic

pΗ

: 6.3 - 8.5, 100 %

Flash point

: 23 °C closed cup

Odor Threshold

: no data available

Melting point/freezing point

no data available

Initial boiling point and

boiling range

: no data available

# **Alcohol Antiseptic 80% Topical Solution**

Evaporation rate

: no data available

Flammability (solld, gas)

: no data available

Upper explosion limit

no data available

Lower explosion limit

: no data available

Vapor pressure

: no data available

Relative vapor density

: no data available

Relative density

: 0.869 - 0.873

Water solubility

: no data available

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

Viscosity, kinematic

: no data available

**Explosive properties** 

no data available

Oxidizing properties

no data available

Molecular weight VOC

: no data available : no data available

# SECTION 10. STABILITY AND REACTIVITY

Chemical stability

: Stable under normal conditions.

Possibility of hazardous

reactions

: No dangerous reaction known under conditions of normal use.

Conditions to avoid

: Heat, flames and sparks.

Incompatible materials

: None known.

Hazardous decomposition

Carbon oxides

products

# SECTION 11. TOXICOLOGICAL INFORMATION

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

exposure

### **Potential Health Effects**

Eyes

: Causes serious eye irritation.

Skin

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

Ingestion

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

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

# Alcohol Antiseptic 80% Topical Solution

Eye contact

: Redness, Pain, Irritation

Skin contact

: No symptoms known or expected.

Ingestion

: No symptoms known or expected.

Inhalation

: No symptoms known or expected.

**Toxicity** 

Acute oral toxicity

: Acute toxicity estimate > 5,000 mg/kg

Acute inhalation toxicity

: no data available

Acute dermal toxicity

: no data available

Skin corrosion/irritation

: no data available

Serious eye damage/eye

irritation

: no data available

Respiratory or skin

sensitization

: no data available

Carcinogenicity

**IARC** 

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human

carcinogen by IARC.

**OSHA** 

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive effects

: no data available

Germ cell mutagenicity

no data available

Teratogenicity

: no data available

STOT-single exposure

The substance or mixture is not classified as specific target organ

toxicant, single exposure.

STOT-repeated exposure

: no data available : no data available

Aspiration toxicity

Ingredients Acute Inhalation toxicity

: ethanol 4 h LC50 rat: 117 mg/l

Ingredients

Acute dermal toxicity

: ethanol

LD50 rabbit: 15,800 mg/kg

# SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

**Environmental Effects** 

: Harmful to aquatic life.

# **Alcohol Antiseptic 80% Topical Solution**

**Product** 

Toxicity to fish

: no data available

Toxicity to daphnia and other

aquatic invertebrates

: no data available

Toxicity to algae

: no data available

Ingredients

Toxicity to fish

: ethanol

96 h LC50 Fish: 11,000 mg/l

Persistence and degradability

no data available

**Bioaccumulative** potential

no data available

Mobility in soil

no data available

Other adverse effects

no data available

# SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

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

Disposal considerations

: Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not reuse empty containers.

RCRA - Resource

: D001 (Ignitable)

Conservation and Recovery Authorization Act Hazardous

waste

# SECTION 14. TRANSPORT INFORMATION

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

: 1987

Description of the goods

: Alcohol, n.o.s.

Class

: 3

Packing group

: 11

Environmentally hazardous

: no

Sea transport (IMDG/IMO)

**UN** number

: 1987

Description of the goods

: Alcohol, n.o.s.

# Alcohol Antiseptic 80% Topical Solution

Class

: 3

Packing group Marine pollutant

Ш : no

# SECTION 15. REGULATORY INFORMATION

# **EPCRA - Emergency Planning and Community Right-to-Know**

# **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

# SARA 304 Extremely Hazardous Substances Reportable Quantity

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

SARA 311/312 Hazards

: Fire 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

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:

#### 1907/2006 (EU):

not determined

# Switzerland. New notified substances and declared preparations :

not determined

## United States TSCA Inventory:

On TSCA Inventory

# Canadian Domestic Substances List (DSL):

This product contains one or several components that are not on the Canadian DSL nor NDSL.

# Australia Inventory of Chemical Substances (AICS):

not determined

# New Zealand. Inventory of Chemical Substances :

not determined

# Japan. ENCS - Existing and New Chemical Substances Inventory:

not determined

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

not determined

# Korea. Korean Existing Chemicals Inventory (KECI):

not determined

# Philippines Inventory of Chemicals and Chemical Substances (PICCS):

# Alcohol Antiseptic 80% Topical Solution

not determined

China. Inventory of Existing Chemical Substances in China (IECSC) : not determined

# **SECTION 16. OTHER INFORMATION**

#### NFPA:



## HMIS III:

HEALTH	2
FLAMMABILITY	3
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight, 2 = Moderate, 3 = High 4 = Extreme, \* = Chronic

Issuing date

: 03/22/2020

Version

1.0

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.



Version 1

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

**Product Name** 

**PURE Hard Surface** 

Other means of identification

**Product Code** 

30250

Recommended use of the chemical and restrictions on use

Recommended Use

Ready To Use Hard Surface Disinfectant and Food Contact Surface Sanitizer

It is a violation of federal law to use this product in a manner inconsistent with its labeling

Uses advised against Details of the supplier of the safety data sheet

**Manufacturer Address** 

Packers Chemical, Inc. 3729 Peddle Hollow Road

Kieler, WI 53812

Emergency telephone number

**Company Phone Number Emergency Telephone** 

888-671-5366

Chemtrec 1-800-424-9300

# 2. HAZARDS IDENTIFICATION

Classification

**OSHA Regulatory Status** 

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Label elements

**Emergency Overview** 

The product contains no substances which at their given concentration, are considered to be hazardous to health Odor Odorless Physical state Liquid

Appearance Aqueous solution Hazards not otherwise classified (HNOC)

Not Applicable

Other Information

**Unknown Acute Toxicity** 

4.849% of the mixture consists of ingredient(s) of unknown toxicity.

Unknown Acute Toxicity	4,049% of the mixture consists of mg.	
	3, COMPOSITION/INFORMATION O	N INGREDIENTS
	CACNO	Weight-70
Chemical Na	7732-18-5	> 95
Water	77-92-9	< 5.0
Citric acid		0.0030
Silver ions		- been withheld as a trade secret

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

# 4. FIRST AID MEASURES

First aid measures

Eye contact

Hold eye(s) open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present,

after first 5 minutes, then continue rinsing eye(s). If eye irritation persists: Get medical advice/attention.

Skin contact

Rinse with water. Get medical attention if irritation develops and persists. If breathing is affected, remove victim to fresh air and consult a physician.

Inhalation

Consult a physician if discomfort occurs. Do NOT induce vomiting.

Ingestion

Symptoms

Most important symptoms and effects, both acute and delayed See Section 11 for symptom information.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing agents appropriate for surrounding fire.

No information available. Unsuitable extinguishing media

Specific hazards arising from the chemical

No information available.

**Explosion data** 

Sensitivity to Mechanical Impact

None.

Sensitivity to Static Discharge

None.

Revision Date 21-Apr-2015 **PURE Hard Surface** 

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Cool containers with flooding quantities of water until well after fire is out.

# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protection recommended in Section 8. Ensure adequate ventilation, especially in Personal precautions

confined areas. Avoid contact with eyes.

For emergency responders

Isolate area. Keep unnecessary personnel away.

Environmental precautions **Environmental precautions** 

Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for

additional ecological information.

Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so. Methods for containment

Collect spillage. Soak up with inert absorbent material. Sweep up and shovel into suitable Methods for cleaning up

containers for disposal. Following product recovery, flush area with water.

# 7. HANDLING AND STORAGE

Precautions for safe handling

Use personal protection recommended in Section 8. Avoid contact with eyes. Wash thoroughly Advice on safe handling

after handling. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Keep tightly closed in a dry and cool place. Do not contaminate water, food or feed. Keep from **Storage Conditions** 

freezing. Protect from direct sunlight.

None known based on information supplied Incompatible materials

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters **Exposure Guidelines**  No special protection or precautions have been identified for using this product under directed consumer use conditions. The following recommendations are given for production facilities

and for other conditions and situations where there is increased potential for accidental,

large-scale or prolonged exposure.

**Appropriate engineering controls** 

Eyewash stations. Ventilation systems. **Engineering Controls** 

Individual protection measures, such as personal protective equipment

Avoid contact with eyes. Safety glasses when the possibility of splashing exists. Eye/face protection

For prolonged and frequent use of this product rubber gloves are recommended. Skin and body protection

No protective equipment is needed under normal use conditions. Respiratory protection

Wash face, hands and any exposed skin thoroughly after handling. Wash contaminated **General Hygiene Considerations** clothing and shoes before reuse. Do not eat, drink or smoke when using this product.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Liquid

Physical state Odorless Odor Aqueous solution

**Appearance** No information available Odor threshold Colorless Color Remarks • Method

Values **Property** 

pН No information available Melting point/freezing point No information available Boiling point / boiling range

No information available Flash point **Evaporation rate** 

No information available No information available Flammability (solid, gas) Flammability Limit in Air

No information available Upper flammability limit: No information available Lower flammability limit: No information available Vapor pressure

No information available Vapor density 1.0 g/cc **Specific Gravity** Soluble in water

Water solubility No information available Solubility in other solvents No information available Partition coefficient No information available Autoignition temperature No information available Decomposition temperature No information available Kinematic viscosity

No information available Dynamic viscosity

# **PURE Hard Surface**

**Explosive properties** Oxidizing properties

No information available No information available

Other Information

VOC Content (%)

## 0.00% 10. STABILITY AND REACTIVITY

#### Reactivity

No data available **Chemical stability** 

Stable under recommended storage conditions.

# Possibility of Hazardous Reactions

None under normal processing.

# Conditions to avoid

None known.

Incompatible materials

None known based on information supplied. **Hazardous Decomposition Products** 

None known based on information supplied.

# 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

**Product Information** 

Inhalation

None under normal use conditions.

Eye contact

May cause slight irritation.

**Skin Contact** 

Prolonged contact may cause slight irritation.

Ingestion

Not an expected route of exposure.

Ingestion	1401 all expedies i sais	1.1.1.1.1.000	
	Oral LD50	Dermal LD50	Inhalation LC50
Chemical Name	> 90 mL/kg (Rat)	-	-
Vater	> 90 IIIDKy ( Nat )		
7732-18-5			-
itric acid	= 3000 mg/kg (Rat)	-	
77-92-9			

# Information on toxicological effects

**Symptoms** 

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization

No information available.

Germ cell mutagenicity

No information available.

Carcinogenicity

This product does not contain any carcinogens or potential carcinogens as listed by OSHA,

IARC or NTP.

Reproductive toxicity STOT - single exposure No information available. No information available. No information available.

STOT - repeated exposure Aspiration hazard

No information available.

Numerical measures of toxicity

- Product Information

4.849% of the mixture consists of ingredient(s) of unknown toxicity **Unknown Acute Toxicity** The following values are calculated based on chapter 3.1 of the GHS document mg/kg mg/l

# 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

otoxicity	f hanto(a) of unknown h	azards to the aquatic environment	
	Algae/aguatic plants	Fish	Crustacea
Chemical Name	Algaeraquatic plants	1516: 96 h Lepomis macrochirus	-
Citric acid 77-92-9	-	mg/L LC50 static	

# Persistence and degradability

lonic silver is degraded into inert elemental silver or insoluble silver complexes in the environment.

## **Bioaccumulation**

information available.	Partition coefficient	
Chemical Name	172	
Citric acid	-1.72	
77-92-9		

#### Mobility

Soluble in water.

Other adverse effects

No Information available

# 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations.

#### PURE Hard Surface

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

14. TRANSPORT INFORMATION

Not regulated DOT

15. REGULATORY INFORMATION

International Inventories

Does not comply TSCA Does not comply DSL/NDSL Does not comply **EINECS/ELINCS** 

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

# US Federal Regulations

**SARA 313** 

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard No No **Chronic Health Hazard** No Fire hazard Sudden release of pressure hazard No No Reactive Hazard

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**US State Regulations** 

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

**U.S. EPA Label Information** 

**EPA Pesticide Registration Number** 

72977-5-63679

	INFORMA	

**Physical and Chemical Properties** Instability 0 Flammability 0 Health hazards 0 NFPA None

Personal protection Flammability 0 Physical hazards 0 Health hazards 0 HMIS

Prepared By

**Technical Department** 

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Version

**Revision Note** 

No information available

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 health hazards given on this SDS apply to this product in its concentrated form (as supplied) and may differ significantly at use dilution. The signs and symptoms of exposure apply only to negligence in handling or misuse of the concentrated product and not to the routine exposure of the diluted product under conditions of ordinary use.

**End of Safety Data Sheet**