

SAFETY DATA SHEET



MED-NAP

SECTION 1: PRODUCT IDENTIFICATION

PRODUCT: Alcohol Antimicrobial Towelettes and Prep Pads

Company Name and Address: Med Nap, LLC
301 Marianne Street
Brooksville, FL 34601

Emergency Telephone Number: 352-796-6020

Recommended use: Intended for use as a skin antiseptic. For external use only.

SECTION 2: HAZARDOUS IDENTIFICATION

Hazardous Classification: This material contains components that are considered hazardous by the OSHA Hazard Communication Standard 29 CFR 1910.1200. Flammable

Precautionary statements: Keep out of reach of children. Flammable.

Target Organs: respiratory system, skin, eyes, CNS, liver, blood and reproductive system. Potential

Health Effects: See Section 11 for more information.

Symptoms of Exposure:

Inhalation: May cause irritation of the respiratory tract. Exposure at High concentrations may cause dizziness, drowsiness, headaches, mental confusion, and lung damage.

Ingestion: May cause nausea, vomiting and diarrhea. Large concentrations may cause irritation of nasal, esophageal and digestive tract. A large dose may cause may cause dizziness, drowsiness, headaches, mental confusion, and lung damage.

Eyes: May cause irritation to the eyes.

Skin: None expected except prolonged contact may result in irritation and dermatitis.

Carcinogens: This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.). Potential Environmental Effects: See Section 12 for more information.

SECTION 3: INFORMATION ON INGREDIENTS

| Ingredient list | Cas # | % |
|-------------------|-----------|-----------|
| Isopropyl Alcohol | 67-63-0 | >70% |
| Purified Water | 7732-18-5 | QS to 100 |

SECTION 4: FIRST-AID MEASURES

Emergency first aid procedures by route of exposure:

Inhalation: If symptoms are experienced, remove source of contamination or move victim to fresh air. If affected person is not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

Ingestion: Do not induce vomiting. If the material is swallowed have victim drink 1-3 glasses of water to dilute stomach contents. Seek medical attention or advice.

Skin: If irritation is experienced, flush with water. If irritation persists, seek medical attention.

Eyes: Immediately flush eyes with water for at least 15 minutes holding the eye open. Seek medical attention if irritation persists

SECTION 5: FIRE-FIGHTING MEASURES

Flammability Classification: Flammable Liquid IB Extinguishing Media: Use methods appropriate for the surrounding fire. Consider water spray or fog, carbon dioxide, dry chemical powder, or alcohol resistant foam.

Products of Combustion: Upon decomposition this product may emit carbon dioxide, carbon monoxide and/or low molecular weight hydrocarbons.

Fire Fighting Equipment/Instructions: Wear protective clothing and equipment suitable for the surrounding fire, including helmet, facemask, and self contained breathing apparatus.

NFPA Rating: Health: 2 Fire: 3 Reactivity: 0 Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: For large spills wear gloves, safety glasses and when levels exceed OSHA PEL use appropriate NIOSH approved respiratory protection. Keep unnecessary personnel away. Eliminate all sources of ignition or flammables that may come into contact with a spill of this material.

Environmental Precautions: Prevent discharge to open waters.

Method for Containment: Absorb spilled liquid in suitable non-flammable inert material such as clay, vermiculite or diatomaceous earth.

Methods for Clean-Up: Ventilate area of leak or spill. Use spark-proof tools to sweep or scrape up and containerize in approved chemical waste container. Wash spill area with water.

SECTION 7: HANDLING AND STORAGE

Handling: Keep away from heat, sparks and flame. Prevent contact with eyes. Avoid inhalation. Use in well ventilated area.

Storage: Keep the container tightly closed and in a cool, well ventilated place.

SECTION 8: EXPOSURE CONTROLS

Isopropyl Alcohol (67-63-0)

ACGIH: 200 ppm TWA

OSHA: 400 ppm TWA; 980 mg/m³ TWA

Engineering Controls: Normal room ventilation is usually adequate under normal use.

Personal Protective Equipment (PPE)

Eye/Face Protection: None needed under normal use – Wear goggles if exposed to unusual amount and splashing

Skin Protection: None needed under normal use -- Wear overalls or apron if splashing is possible

Respiratory Protection: may be needed if vapor concentrations are high.

General Hygiene Considerations: None needed under normal use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Towelette Saturated with liquid

Appearance/Color: Clear

Odor: Alcohol

PH: Not Available

Vapor Density: 2.1 (air=1)

Boiling Point: 80°C

Vapor Pressure: No data

Melting Point: No data

Freezing Point: Not Available

Flammability Properties: (see section 5)

Solubility (in water): Soluble

Specific Gravity @ 25°C: 0.88-0.92

Evaporation Rate: Not Available

Octanol/Water partition coefficient: Not Available

Auto-ignition temperature: Not Available

Decomposition temperature: Not Available

SECTION 10: STABILITY AND REACTIVITY

Chemical stability: Stable under normal ambient temperatures 70°C (21°C)

Conditions to avoid: Avoid excessive heat or sources of ignition.

Incompatible materials: This product reacts with strong acid, strong bases, and oxidizing agents.

Hazardous decomposition products: Upon decomposition, this product evolves carbon monoxide, carbon dioxide, and/or low weight hydrocarbons.

Possibility of hazardous reactions: Hazardous polymerization does not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

General Product information: Product contains isopropyl alcohol.

Acute Toxicity: Low order of acute toxicity is possible.

Chronic Effects: Component Isopropyl Alcohol (67-63-0) -- This product is not expected to cause long term adverse effects

Carcinogenicity: ACGIH A4 – Not Classifiable as a Human Carcinogen

Neurotoxicity: No information available **Mutagenicity:** No information available for product.

Reproductive: This product is not expected to cause reproductive health effects

Developmental: This product is not expected to cause reproductive health effects.

Target Organs: When consumed, ethyl alcohol can target the respiratory system, skin, eyes, CNS, liver, blood and reproductive system.

SECTION 12: ECOLOGICAL INFORMATION

Solutions of alcohols are toxic to aquatic life at moderate to low concentrations. No long-term ecological effects are likely. Concentrated solutions of alcohols and surfactants may cause damage to aquatic and terrestrial plants.

SECTION 13: DISPOSABLE INFORMATION

Dispose in accordance with federal state and local regulations. Labels should not be removed from containers until they have been cleaned. Do not cut, puncture or weld near container. Do not incinerate closed containers. Empty containers may contain hazardous residues. Dispose of containers with care.

SECTION 14: TRANSPORT INFORMATION

DOT CFR 172.01 Data: Isopropanol Solution (3) Flammable Liquid UN1219 PGII

UN Proper Shipping Name: Isopropanol Solution

UN Class: (3) Flammable Liquid

UN Number: 1219

Packaging Group: II

SECTION 15: REGULATORY INFORMATION

Labeling Information: Flammable

SECTION 16: OTHER INFORMATION

Issue Date: 1/1/2018

Disclaimer: The information provided in this SDS is correct and is to the best of our knowledge, at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.



HEALTHCARE BEYOND BURN CARE™

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: US OSHA Hazard Communication Standard (29 CFR 1910.1200) and Canada WHMIS 2015 which includes the amended Hazardous Products Act (HPA) and the Hazardous Products Regulation (HPR)

Issuing Date 04-Feb-2019

Revision date 04-Feb-2019

Revision Number 1

1. Identification

Product identifier

Product Name Cool Jel®

Other means of identification

Product Code(s) CJ.00.121

Synonyms Cool Jel® Topical Cooling Gel

Recommended use of the chemical and restrictions on use

Recommended use Cools and Soothes; for minor burns, cuts, scrapes and abrasions

Restrictions on use For external use only.

Details of the supplier of the safety data sheet

Manufacturer Address

WaterJel Technologies®
50 Broad Street
Carlstadt, NJ 07072
P: 201-507-8300

Emergency telephone number

Emergency Telephone 800-275-3433 (8:00 am-5:00 pm EST Weekdays)

2. Hazard(s) identification

Classification

Not classified.

Label elements

Hazard statements

Not classified.

Other information

No information available.

3. Composition/information on ingredients

Substance

Not applicable.

Mixture**Synonyms**

Cool Jel® Topical Cooling Gel.

| Chemical name | CAS No | Weight-% | Hazardous Material Information Review Act registry number (HMIRA registry #) | Date HMIRA filed and date exemption granted (if applicable) |
|---------------|---------|----------|--|---|
| Glycerin | 56-81-5 | 0.5-1.5 | - | - |

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. First-aid measures

Description of first aid measures

| | |
|--------------|--|
| Inhalation | Remove to fresh air. |
| Eye contact | Rinse thoroughly with plenty of water, also under the eyelids. |
| Skin contact | Wash skin with soap and water. |
| Ingestion | Clean mouth with water and drink afterwards plenty of water. |

Most important symptoms and effects, both acute and delayed

| | |
|----------|--|
| Symptoms | May cause skin irritation in susceptible persons. May cause redness and tearing of the eyes. |
|----------|--|

Indication of any immediate medical attention and special treatment needed

| | |
|--------------------|------------------------|
| Note to physicians | Treat symptomatically. |
|--------------------|------------------------|

5. Fire-fighting measures

| | |
|--|--|
| Suitable Extinguishing Media | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Unsuitable extinguishing media | No information available. |
| Specific hazards arising from the chemical | No information available. |
| Explosion data | |
| Sensitivity to mechanical impact | None. |
| Sensitivity to static discharge | None. |
| Special protective equipment for fire-fighters | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. |

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation.

Methods and material for containment and cleaning up

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

Methods for cleaning up Pick up and transfer to properly labeled containers.

7. Handling and storage

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls/personal protection

Control parameters

Exposure Limits

| Chemical name | ACGIH TLV | | OSHA PEL | NIOSH IDLH |
|---------------------|---------------------------|---|--|---------------------------|
| Glycerin 56-81-5 | No data available | | TWA: 15 mg/m ³ mist, total particulate TWA: 5 mg/m ³ mist, respirable fraction (vacated) TWA: 10 mg/m ³ mist, total particulate (vacated) TWA: 5 mg/m ³ mist, respirable fraction | - |
| Chemical name | Alberta | British Columbia | Ontario | Quebec |
| Glycerin 56-81-5 | TWA: 10 mg/m ³ | TWA: 10 mg/m ³ TWA: 3 mg/m ³ | | TWA: 10 mg/m ³ |

Appropriate engineering controls

Engineering controls Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection No special protective equipment required.

| | |
|---------------------------------------|--|
| Hand protection | No special protective equipment required. |
| Skin and body protection | No special protective equipment required. |
| Respiratory protection | No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. |
| General hygiene considerations | Handle in accordance with good industrial hygiene and safety practice. |

9. Physical and chemical properties

Information on basic physical and chemical properties

| | |
|-----------------------|---------------------------|
| Appearance | White to off-white gel |
| Physical state | Liquid |
| Color | White to off-white |
| Odor | Characteristic: Medicinal |
| Odor threshold | No information available |

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|---|--------------------|--------------------------------|
| pH | 5.2 - 7.2 | |
| Melting point / freezing point | No data available | None known |
| Boiling point / boiling range | No data available | None known |
| Flash point | 100 °C / 212 °F | |
| Evaporation rate | No data available | None known |
| Flammability (solid, gas) | No data available | None known |
| Flammability Limit in Air | | None known |
| Upper flammability or explosive limits | No data available | |
| Lower flammability or explosive limits | No data available | |
| Vapor pressure | No data available | None known |
| Vapor density | No data available | None known |
| Relative density | 0.997 | @25°C |
| Water solubility | Soluble in water | |
| Solubility(ies) | No data available | None known |
| Partition coefficient | No data available | None known |
| Autoignition temperature | No data available | None known |
| Decomposition temperature | No data available | None known |
| Kinematic viscosity | No data available | None known |
| Dynamic viscosity | 36,000 - 45,100 cP | Brookfield; Spindle #4; 12 RPM |

Other information

| | |
|-----------------------------|---------------------------|
| Explosive properties | No information available. |
| Oxidizing properties | No information available. |
| Softening point | No information available. |
| Molecular weight | No information available. |
| VOC Content (%) | No information available. |
| Liquid Density | No information available. |
| Bulk density | No information available. |

10. Stability and reactivity

| | |
|---------------------------|---------------------------------|
| Reactivity | No information available. |
| Chemical stability | Stable under normal conditions. |

| | |
|---|---|
| Possibility of hazardous reactions | None under normal processing. |
| Conditions to avoid | None known based on information supplied. |
| 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

| | |
|---------------------|---|
| Inhalation | Specific test data for the substance or mixture is not available. May cause irritation. |
| Eye contact | Specific test data for the substance or mixture is not available. May cause eye irritation with susceptible persons. |
| Skin contact | Specific test data for the substance or mixture is not available. Causes mild skin irritation. |
| Ingestion | Specific test data for the substance or mixture is not available. May cause gastrointestinal discomfort if consumed in large amounts. |

Symptoms related to the physical, chemical and toxicological characteristics

| | |
|-----------------|--|
| Symptoms | May cause skin irritation in susceptible persons. May cause redness and tearing of the eyes. |
|-----------------|--|

Acute toxicity

Numerical measures of toxicity

No information available

The following values are calculated based on chapter 3.1 of the GHS document

Component Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---------------|-----------------------|----------------------|-------------------------------------|
| Glycerin | = 12600 mg/kg (Rat) | > 10 g/kg (Rabbit) | > 570 mg/m ³ (Rat) 1 h |

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

| | |
|--|---|
| Skin corrosion/irritation | May cause mild to moderate irritation. |
| Serious eye damage/eye irritation | May cause mild to moderate irritation. |
| Respiratory or skin sensitization | Based on available data, the classification criteria are not met. |
| Germ cell mutagenicity | Based on available data, the classification criteria are not met. |
| Carcinogenicity | No information available. |
| Reproductive toxicity | No information available. |
| STOT - single exposure | No information available. |
| STOT - repeated exposure | No information available. |
| Aspiration hazard | No information available. |

12. Ecological information

Ecotoxicity

| Chemical name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
|---------------------|----------------------|---|----------------------------|--|
| Glycerin 56-81-5 | - | LC50: 51 - 57mL/L (96h, Oncorhynchus mykiss) | - | EC50: >500mg/L (24h, Daphnia magna) |

Persistence and degradability No information available.

Bioaccumulation No information available.

Component Information

| Chemical name | Partition coefficient |
|---------------------|-----------------------|
| Glycerin 56-81-5 | -1.76 |

Mobility in soil No information available.

Mobility No information available.

Other adverse effects No information available.

13. Disposal considerations

Waste treatment methods

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

14. Transport information

DOT Not regulated

TDG Not regulated

MEX Not regulated

IATA Not regulated

IMDG Not regulated

15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories

| | |
|----------------------|---|
| TSCA | Contact supplier for inventory compliance status. |
| DSL/NDL | Contact supplier for inventory compliance status. |
| EINECS/ELINCS | Contact supplier for inventory compliance status. |
| ENCS | Contact supplier for inventory compliance status. |
| IECSC | Contact supplier for inventory compliance status. |
| KECL | Contact supplier for inventory compliance status. |
| PICCS | Contact supplier for inventory compliance status. |
| AICS | Contact supplier for inventory compliance status. |

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

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

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of 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

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications. Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.

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).

CERCLA

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

US State Regulations

| Chemical name | New Jersey | Massachusetts | Pennsylvania |
|---------------|------------|---------------|--------------|
| Glycerin | X | X | X |

| | | | |
|-----------------------------|---|---|---|
| 56-81-5 | | | |
| Triethanolamine 102-71-6 | X | X | X |
| Propane-1,2-diol 57-55-6 | X | - | X |

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information

| | | | | |
|-------------|------------------|----------------|--------------------|------------------------------------|
| NFPA | Health hazards 0 | Flammability 1 | Instability 0 | Physical and chemical properties - |
| HMIS | Health hazards 0 | Flammability 1 | Physical hazards 0 | Personal protection X |

Key or legend to abbreviations and acronyms used in the safety data sheetLegend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

| | | | |
|---------|-----------------------------|------|----------------------------------|
| TWA | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value | * | Skin designation |

Key literature references and sources for data used to compile the SDS

U.S. Environmental Protection Agency ChemView Database
 European Food Safety Authority (EFSA)
 EPA (Environmental Protection Agency)
 Acute Exposure Guideline Level(s) (AEGl(s))
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
 U.S. Environmental Protection Agency High Production Volume Chemicals
 Food Research Journal
 Hazardous Substance Database
 International Uniform Chemical Information Database (IUCLID)
 Japan GHS Classification
 NIOSH (National Institute for Occupational Safety and Health)
 National Library of Medicine's ChemID Plus (NLM CIP)
 National Toxicology Program (NTP)
 New Zealand's Chemical Classification and Information Database (CCID)
 Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
 Organization for Economic Co-operation and Development High Production Volume Chemicals Program
 Organization for Economic Co-operation and Development Screening Information Data Set
 RTECS (Registry of Toxic Effects of Chemical Substances)
 World Health Organization

Issuing Date 04-Feb-2019

Revision date 04-Feb-2019

Revision Note Initial Release.

Disclaimer

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End of Safety Data Sheet

**PLANET**
INTERNATIONAL

Safety Data Sheet

SDS No. : SH-SDS-2018001

Title: Ice Pack Safety Data Sheet**Issuing Date** 04-Jul-2018**Revision Date** 04-Jul-2018**Revision Number** 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name ICE PACK
Recommended Use Cold compress bag for body or product

Supplier Address PLANET (Suzhou) Medical Products Co.,Ltd

No.33 Qinglian Road Xuguan Industrial Park Suzhou Hi-Tec Development Zone
Suzhou 215151 China

2. HAZARDS IDENTIFICATION

Emergency Overview May cause skin frostbite

Appearance Clear **Physical State** liquid

Odor No information available

Potential Health Effects

Principle Routes of Exposure Skin contact.

Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008

The product is not classified according to the CLP regulation.

Information concerning particular hazards for human and environment:

The product has not to be labelled due to the calculation procedure of Regulation 1272/2008/EC.

Classification system:

The classification is according to the latest edition of EU Regulation 1272/2008/EC, and extended by company and literature data.

Label elements

Labelling according to Regulation (EC) No 1272/2008 Not applicable

Acute Toxicity

Skin

May Cause irritation

Inhalation

No known effect based on information supplied.

Ingestion

No hazard from product as supplied.

Chronic Effects

No known effect based on information supplied.

**Aggravated Medical
Conditions**

None known.

Environmental Hazard

See Section 12 for additional Ecological Information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS-No | Weight % |
|------------------|-----------|----------|
| Water | 7732-18-5 | 50 |
| Ammonium Nitrate | 6484-52-2 | 50 |

**Title:** Ice Pack Safety Data Sheet**Issuing Date** 04-Jul-2018**Revision Date** 04-Jul-2018**Revision Number** 1**4. FIRST AID MEASURES**

| | |
|---------------------------|---|
| Eye Contact | Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician. |
| Skin Contact | Remove contaminated clothing and rinse thoroughly with water |
| Inhalation | Move to fresh air. If symptoms persist, call a physician. |
| Ingestion | Do NOT induce vomiting. Drink plenty of water. If symptoms persist, call a physician. |
| Notes to Physician | Treat symptomatically. |

5. FIRE-FIGHTING MEASURES

| | |
|---|---|
| Flammable Properties | Not flammable. |
| Suitable Extinguishing Media | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Hazardous Combustion Products | Carbon oxides. |
| Explosion Data | |
| Sensitivity to Mechanical Impact | No. |
| Sensitivity to Static Discharge | No. |

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.

| | | | | |
|-------------|------------------------|-----------------------|--------------------|--|
| NFPA | Health Hazard 1 | Flammability 0 | Stability 0 | Physical and Chemical Hazards - |
|-------------|------------------------|-----------------------|--------------------|--|



| | | | |
|---------------------|-----------------------------------|------------------------|-------------|
| Title: | Ice Pack Safety Data Sheet | | |
| Issuing Date | 04-Jul-2018 | Revision Date | 04-Jul-2018 |
| | | Revision Number | 1 |

6. ACCIDENTAL RELEASE MEASURES

| | |
|--|---|
| Personal Precautions | Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Use respiratory protective device against the effects of fumes/dust/aerosol. Avoid contact with eyes. |
| Environmental Precautions | Refer to protective measures listed in Sections 7 and 8. |
| Methods for Containment and Cleaning Up | Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. |
| Reference to other sections | See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment See Section 13 for disposal information. |

7. HANDLING AND STORAGE

| | |
|-----------------|--|
| Handling | Ensure good ventilation/exhaustion at the workplace. Keep receptacles tightly sealed. Keep away from heat and direct sunlight. Prevent formation of aerosols. Avoid contact with eyes. For the general occupational hygienic measures refer to section 8. Information about fire - and explosion protection: Normal measures for preventive fire protection |
| Storage | Requirements to be met by storerooms and receptacles: Store in a cool location Store only in the original receptacle. Information about storage in one common storage facility: Store away from foodstuffs Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles |

**Title:** Ice Pack Safety Data Sheet**Issuing Date** 04-Jul-2018**Revision Date** 04-Jul-2018**Revision Number** 1**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Exposure Guidelines**

Based on composition shown in Section 3, the following measures are suggested for occupational safety measure.

Engineering Measures

See Section 7 for information about design of technical facilities.

Personal Protective Equipment**Eye Protection**

Tightly sealed goggles

Hands Protection

Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

**Respiratory Protection
Hygiene Measures**

Respiratory protection: Suitable respiratory protective device recommended.
Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|---|----------------------------|---------------------------------|--------------------------|
| Appearance | Clear | Odor | No |
| Odor Threshold | No | Physical State | liquid |
| pH | 4.5-6.0 | Autoignition Temperature | No information available |
| Flash Point | 210°C | Boiling Point/Range | 210°C |
| Decomposition Temperature | No information available | Explosion Limits | No information available |
| Melting Point/Range | 169.6°C | Solubility | No information available |
| Flammability Limits in Air | No information available | Vapor Pressure | No data available |
| Water Solubility | 190g (20°C) , 421g (60°C) | VOC Content (%) | Not applicable |
| Evaporation Rate | No information available | | |
| Vapor Density | No data available | | |
| Partition Coefficient: n-octanol/water | No information available | | |



| | | | |
|---------------------|-----------------------------------|------------------------|-------------|
| Title: | Ice Pack Safety Data Sheet | | |
| Issuing Date | 04-Jul-2018 | Revision Date | 04-Jul-2018 |
| | | Revision Number | 1 |

10. STABILITY AND REACTIVITY

| | | | |
|----------------------------------|--|----------------|--|
| Stability | Stable under recommended storage conditions. | | |
| Incompatible Products | No further relevant information available | | |
| Conditions to Avoid | No information available | | |
| Hazardous Decomposition Products | No information available | Carbon oxides. | |
| Hazardous Polymerization | No dangerous decomposition products known | | |

11. TOXICOLOGICAL INFORMATION**Acute Toxicity****Product Information**

| | |
|--------------------------------------|-------------------------|
| LD50 Oral VALUE | 4820mg/kg (Rat's mouth) |
| LD50 Dermal VALUE | |
| LC50 Inhalation (DUST) VALUE | |
| LC50 Inhalation (VAPOR) VALUE | |

Chronic Toxicity

| | |
|-----------------------------|--|
| Chronic Toxicity | No known effect based on information supplied. |
| Target Organ Effects | None known. |

12. ECOLOGICAL INFORMATION

| | |
|---|---|
| Aquatic toxicity | No information available |
| Mobility in soil | No information available |
| Aquatic toxicity | No information available |
| Persistence and degradability | No information available |
| Bioaccumulative potential | No information available |
| Results of PBT and vPvB assessment | PBT: Not applicable. vPvB: Not applicable. |

**Title:****Ice Pack Safety Data Sheet****Issuing Date** 04-Jul-2018**Revision Date** 04-Jul-2018**Revision Number** 1**13. DISPOSAL CONSIDERATIONS****Waste Disposal Methods**

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated Packaging

Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION**DOT**

NOT REGULATED

TDG

Not regulated

MEX

Not regulated

ICAO

Not regulated

IATA

Not regulated

IMDG/IMO

Not regulated

**Title:** Ice Pack Safety Data Sheet**Issuing Date** 04-Jul-2018**Revision Date** 04-Jul-2018**Revision Number** 1**15. REGULATORY INFORMATION**

Safety, health and environmental regulations/legislation specific for the substance or mixture

MAK (German Maximum Workplace Concentration)

None of the ingredients is listed.

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

National regulations:

Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

Other regulations, limitations and prohibitive regulations**SVHC Candidate List of REACH Regulation Annex XIV Authorisation (17/12/2014)**

None of the ingredients is listed.

REACH Regulation Annex XVII Restriction (2/3/2015)

See Section 16 for information about restriction of use.

None of the ingredients is listed.

REACH Regulation Annex XIV Authorization List (14/8/2014)

None of the ingredients is listed.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION**Prepared By**

Issuing Date 04-Jul-2018

Revision Date 04-Jul-2018

Revision Note No information available

General 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

End of Safety Data Sheet

SAFETY DATA SHEET

Issuing Date 05-June-2015

Revision Date 12-Dec-2018

Revision Number 1



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

Product identifier

PHYSICIANS CARE EYEWASH

Other means of identification

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Medicinal products

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Name NIAGARA PHARMACEUTICALS INC.

Supplier Address 60 INNOVATION DRIVE
FLAMBOROUGH
ON
L9H7P3
CA

Supplier Phone Number Phone:905-690-6277
Fax:905-690-6281

Supplier Email rjames@niagapharmaceuticals.com

Emergency telephone number

Company Emergency Phone Number 905-708-7962

2. HAZARDS IDENTIFICATION

Classification

The Eyewash is an approved drug by the FDA used for cleansing the eye to help irritation or burning by removing loose foreign material. **This drug product is considered exempt from SDS as it does not fall under the definition of "Hazardous product" as per regulations - 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).**



PHYSICIANS CARE EYEWASH

GHS Label elements, including precautionary statements**Precautionary Statements - Prevention**

For single use only

Precautionary Statements - Response

If concerned: Get medical advice/attention

Precautionary Statements - Storage

Store as per product label between 20°C to 25°C (68°F to 77°F)

Precautionary Statements - Disposal

Dispose of contents/container in accordance with local regulations

Hazards not otherwise classified (HNOC)

Not applicable

Unknown Toxicity

0% of the mixture consists of ingredient(s) of unknown toxicity

Other information

No information available

Interactions with Other Chemicals

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS No | Weight-% | Trade Secret |
|--|------------|----------|--------------|
| Boric acid (H ₃ BO ₃) | 10043-35-3 | 1 - 5 | * |
| Sodium borate | 1330-43-4 | 0.1 - 1 | * |

*The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST AID MEASURES**First aid measures****Eye contact**

This product is a first aid measure for cleansing the eye to help relieve irritation or burning by removing loose foreign material.

Skin contactNone



PHYSICIANS CARE EYEWASH

| | |
|------------|---|
| Inhalation | None |
| Ingestion | Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. |

Most important symptoms and effects, both acute and delayed

Most Important Symptoms and Effects No information available.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

None.

Unsuitable extinguishing media

No information available

Specific hazards arising from the chemical

None

Hazardous Combustion Products

None

Explosion Data

Sensitivity to Mechanical Impact No.

Sensitivity to Static Discharge No.

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.

PHYSICIANS CARE EYEWASH

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions None

Environmental precautions

Environmental precautions Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

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

Methods for cleaning up Soak up with inert absorbent material.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Store as sealed bottle. Do not use if seal is missing or broken. For single use only. Store as per product label between 20°C to 25°C (68°F to 77°F)

Incompatible Products None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|--|---|-------------------------------------|--------------------------|
| Boric acid (H ₃ BO ₃) 10043-35-3 | TWA: 2 mg/m ³ inhalable fraction STEL: 6 mg/m ³ inhalable fraction | - | |
| Sodium borate 1330-43-4 | STEL: 6 mg/m ³ inhalable fraction TWA: 2 mg/m ³ inhalable fraction | (vacated) TWA: 10 mg/m ³ | TWA: 1 mg/m ³ |

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits Immediately Dangerous to Life or Health

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d



PHYSICIANS CARE EYEWASH

962 (11th Cir., 1992)

Appropriate engineering controls

Engineering Measures

Showers
Eyewash stations
Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection No special protective equipment required.

Skin and body protection No special protective equipment required

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

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice. .

| |
|--|
| 9. PHYSICAL AND CHEMICAL PROPERTIES |
|--|

Physical and Chemical Properties

| | | | |
|-----------------------|--|-----------------------|--------------------------|
| Physical state | Liquid | Odor | Odorless |
| Appearance | Clear, colorless. No visual impurities | Odor Threshold | No information available |
| Color | No information available | | |

| <u>Property</u> | <u>Values</u> | <u>Remarks</u> | <u>Method</u> |
|--|--------------------|----------------|---------------|
| pH | 7.4 | None known | |
| Melting / freezing point | No data available | None known | |
| Boiling point / boiling range | No data available | None known | |
| Flash Point | No data available | None known | |
| Evaporation Rate | No data available | None known | |
| Flammability (solid, gas) | No data available | None known | |
| Flammability Limit in Air | | | |
| Upper flammability limit | No data available | | |
| Lower flammability limit | No data available | | |
| Vapor pressure | No data available | None known | |
| Vapor density | No data available | None known | |
| Specific Gravity | 1 | None known | |
| Water Solubility | Completely soluble | None known | |
| Solubility in other solvents | No data available | None known | |
| Partition coefficient: n-octanol/water | No data available | None known | |
| Autoignition temperature | No data available | None known | |
| Decomposition temperature | No data available | None known | |

PHYSICIANS CARE EYEWASH

| | | |
|----------------------|-------------------|------------|
| Kinematic viscosity | No data available | None known |
| Dynamic viscosity | No data available | None known |
| Explosive properties | No data available | |
| Oxidizing properties | No data available | |

Other Information

| | |
|----------------------------|-------------------|
| Softening Point | No data available |
| VOC Content (%) | No data available |
| Particle Size | No data available |
| Particle Size Distribution | |

10. STABILITY AND REACTIVITY**Reactivity**

No data available.

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to avoid

None known based on information supplied.

Incompatible materials

None known based on information supplied.

Hazardous Decomposition Products

None known

11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure****Product Information**

| | |
|--------------|---|
| Inhalation | Specific test data for the substance or mixture is not available. |
| Eye contact | Specific test data for the substance or mixture is not available. |
| Skin contact | Specific test data for the substance or mixture is not available. |
| Ingestion | Specific test data for the substance or mixture is not available. |

Component Information

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|----------------------------------|----------------------|-------------------------|-------------------------|
| Boric acid (H3BO3) 10043-35-3 | = 2660 mg/kg (Rat) | > 2000 mg/kg (Rabbit) | > 2.03 mg/L (Rat) 4 h |



PHYSICIANS CARE EYEWASH

| | | | |
|----------------------------|----------------------|-------------------------|---|
| Sodium borate 1330-43-4 | = 2403 mg/kg (Rat) | > 2000 mg/kg (Rabbit) | - |
|----------------------------|----------------------|-------------------------|---|

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.

Mutagenic Effects No information available.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Reproductive toxicity No information available

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Chronic Toxicity No known effect based on information supplied.

Target Organ Effects No information available

Aspiration Hazard No information available.

Numerical measures of toxicity Product Information

The following values are calculated based on chapter 3.1 of the GHS document

Not applicable

PHYSICIANS CARE EYEWASH

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

| Chemical Name | Toxicity to Algae | Toxicity to Fish | Toxicity to Microorganisms | Daphnia Magna (Water Flea) |
|--|---|--|----------------------------|----------------------------|
| Boric acid (H ₃ BO ₃) 10043-35-3 | | 72h LC50: = 1020 mg/L (Carassius auratus) | | 48h EC50: 115 - 153 mg/L |
| Sodium borate 1330-43-4 | 96h EC50: = 158 mg/L (Desmodesmus subspicatus) 96h EC50: 2.6 - 21.8 mg/L (Pseudokirchneriella subcapitata) | 96h LC50: = 340 mg/L (Limanda limanda) | | 48h LC50: 1085 - 1402 mg/L |

Persistence and Degradability

No information available.

Bioaccumulation

| Chemical Name | Log Pow |
|--|---------|
| Boric acid (H ₃ BO ₃) 10043-35-3 | -0.757 |

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods**Disposal methods**

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated Packaging

Dispose of contents/containers in accordance with local regulations.

California Hazardous Waste Codes 561

This product contains one substance that is listed with the State of California as a hazardous waste. However the amounts used in this product is negligible and is of below the prescribed limits for toxicity.

| Chemical Name | California Hazardous Waste |
|--|----------------------------|
| Boric acid (H ₃ BO ₃) 10043-35-3 | Toxic |



PHYSICIANS CARE EYEWASH

14. TRANSPORT INFORMATION

| | |
|-----------------------------|---------------|
| <u>DOT</u> | NOT REGULATED |
| Proper Shipping Name | NON REGULATED |
| Hazard Class | N/A |

| | |
|-------------------|---------------|
| <u>TDG</u> | Not regulated |
|-------------------|---------------|

| | |
|-------------------|---------------|
| <u>MEX</u> | Not regulated |
|-------------------|---------------|

| | |
|--------------------|---------------|
| <u>ICAO</u> | Not regulated |
|--------------------|---------------|

| | |
|-----------------------------|---------------|
| <u>IATA</u> | Not regulated |
| Proper Shipping Name | NON REGULATED |
| Hazard Class | N/A |

| | |
|------------------------|---------------|
| <u>IMDG/IMO</u> | Not regulated |
| Hazard Class | N/A |

| | |
|-------------------|---------------|
| <u>RID</u> | Not regulated |
|-------------------|---------------|

| | |
|-------------------|---------------|
| <u>ADR</u> | Not regulated |
|-------------------|---------------|

| | |
|-------------------|---------------|
| <u>ADN</u> | Not regulated |
|-------------------|---------------|

15. REGULATORY INFORMATION

International Inventories

| | |
|------|--|
| TSCA | Complies |
| DSL | All components are listed either on the DSL or NDSL. |

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

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 |
| Chronic Health Hazard | No |
| Fire Hazard | No |
| Sudden release of pressure hazard | No |
| Reactive Hazard | No |

CWA (Clean Water Act)



PHYSICIANS CARE EYEWASH

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)

CERCLA

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

| Chemical Name | New Jersey | Massachusetts | Pennsylvania | Rhode Island | Illinois |
|----------------------------|------------|---------------|--------------|--------------|----------|
| Sodium borate 1330-43-4 | | X | X | | |

International Regulations

| Component | Carcinogen Status | Exposure Limits |
|--|-------------------|---------------------------------|
| Sodium borate 1330-43-4 (0.1 - 1) | | Mexico: TWA 1 mg/m ³ |

Canada**WHMIS Hazard Class**

Not applicable

16. OTHER INFORMATION

| | | | | |
|-------------|-------------------------|-----------------------|--------------------------|--|
| NFPA | Health Hazards 0 | Flammability 0 | Instability 0 | Physical and Chemical Hazards - |
| HMIS | Health Hazards 0 | Flammability 0 | Physical Hazard 0 | Personal Protection X |

Prepared By Niagara Pharmaceuticals Inc.
60 Innovation Drive
Flamborough, ON L9H7P3
905-690-6277

Revision Date 12-Dec-2018

Revision Note No information available



PHYSICIANS CARE EYEWASH

Disclaimer

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End of Safety Data Sheet

SECTION 1: PRODUCT IDENTIFICATION

Product: 10% Povidone Iodine (PVP-I) Solution Prep Pad

Product Label Name: Povidone Iodine Prep Pads

CAS: (PVP-I) 25655-41-8

Relevant Product Use: Topical Antiseptic

Company Name and Address: Dukal Corporation
2 Fleetwood Court
Ronkonkoma, NY 11779

Emergency Telephone Number: 631-656-3800

Contact Outside USA: +1-800-243-0741
QA-RA-NY@dukul.com

Revision Date: 14-May-2018

SECTION 2: HAZARDOUS IDENTIFICATION

Hazard Class/Category: Eye Irritation – 2A
STOT SE – 3
Skin Irritation – 2

Hazard Symbol:



Signal Word: Warning

Hazard Statements: Causes serious eye irritation. (H319)
May cause respiratory irritation. (H335)
Causes skin irritation. (H315)

Precautionary statements: Avoid breathing vapors. (P261)

General: Keep out of reach of children. (P102)

Eyes: IF IN EYES: Rinse cautiously with water for several minutes.
If eye irritation persists: Get medical advice/attention.
(P305+P338) (P337+P313)

Respiratory: IF INHALED: Remove victim to fresh air and keep at rest in
a position comfortable for breathing. Call a POISON



SAFETY DATA SHEET

CENTER or doctor/physician if you feel unwell. (P304+P340)
(P312)

Skin:

IF ON SKIN: Wash with plenty of soap and water.
If skin irritation occurs: Get medical advice/ attention.
(P303+P352) (P332 + P313)

SECTION 3: INFORMATION ON INGREDIENTS

| Component Name | CAS # | Concentration | EC # |
|-----------------|------------|---------------|-----------------------------------|
| Povidone Iodine | 25655-41-8 | 10% | N/A (Pre-Registration: 918-309-2) |

SECTION 4: FIRST-AID MEASURES

Emergency first aid procedures by route of exposure:

Inhalation: Get medical aid immediately. Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Ingestion: If victim is conscious and alert, give 2-4 cups of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Skin: Get medical aid. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Remove contaminated clothing and shoes.

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

SECTION 5: FIRE-FIGHTING MEASURES

Flash Point: 93.9°C

Extinguishing Media: Use methods appropriate for the surrounding fire.

Products of Combustion: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Fire Fighting Equipment/Instructions: Wear protective clothing and equipment suitable for the surrounding fire, including helmet, facemask, and self contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Provide ventilation. For large spills wear gloves, safety glasses, NIOSH approved respiratory protection if ventilation is not adequate.

Environmental Precautions: Prevent discharge to open waters.

Methods for Clean-Up: Clean up spills immediately, using the appropriate protective equipment. Avoid generating dusty conditions.

SECTION 7: HANDLING AND STORAGE

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Storage: Keep the container tightly closed and in a cool, well ventilated place.

SECTION 8: EXPOSURE CONTROLS

Povidone Iodine (25655-41-8)

Engineering Controls: Normal room ventilation is usually adequate under normal use.

Personal Protective Equipment (PPE):

Eye/Face Protection: None needed under normal use. If exposed to unusual amount and splashing: Wear goggles, described by OSHA regulations in 29CFR 1910.133 or European Standard EN166.

Skin Protection: None needed under normal use -- Wear overalls or apron if splashing is possible.

Respiratory Protection: Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

General Hygiene Considerations: Wear appropriate protective clothing to prevent skin exposure.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Non-woven saturated with 10% povidone iodine solution

Appearance: Yellowish-brown amorphous hygroscopic powder

Odor: Slight odor

PH: Not Available.

Vapor Pressure: 0.132mmHg at 25°C

Flammability Properties (see section 5)

Solubility (in water): Soluble

Specific Gravity @ 25°C: Not Available

Evaporation Rate: Not Available

Auto-ignition temperature: Not Available

Melting Point: 300°C

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable at normal ambient temperatures near 70°C (21°C)

Condition to Avoid: Not Available

Incompatible Materials: Ether, chloroform, acetone, ethylene oxide and carbon tetrachloride

Hazardous Decomposition: Not Available

Hazardous Reactions: Not Available

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE EFFECTS:

A: General Product information

Povidone Iodine contains Iodine in a Povidone Carrier.

B: Acute Toxicity

Low order of acute toxicity is possible: The concentrations used clinically (0.1 to 20%) are toxic for granulocytes and monocytes. Povidone-iodine was cytotoxic to SH-SY5Y (neuronal) and RSC96 (Schwann) cells. Povidone-iodine preparation was ototoxic in guinea pigs.

Rat LD50 oral: >2000 mg/kg

Rat LD50 dermal: Estimated based on R21 classification: 400 < LD50 < 2000 mg/kg

Rat LC50 inhalation: Estimated based on R20 classification: 2 < LC50 < 10 mg/L/4h

CHRONIC EFFECTS: Component

10% Povidone Iodine (25655-41-8) -- This product is not expected to cause long term adverse effects

SECTION 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL MOBILITY

This product is water soluble and is expected to remain primarily in water.

ENVIRONMENTAL DEGRADABILITY

This product Oxides of nitrogen, irritating and toxic fumes and gases, iodine.
This substance is expected to be removed in a waste water treatment facility.

ECOTOXICITY AND BIOACCUMULATION

Low acute toxicity to aquatic organisms is expected.

SECTION 13: DISPOSAL CONSIDERATIONS

The following advice only applies to the product as supplied:

Combination with other material may well indicate another route or disposal. If in doubt, contact the local Authorities. Empty packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor. Care should in any case be taken to ensure compliance with national and local regulations. This product is NOT suitable for disposal by either landfill or via municipal powers, drains, natural streams or rivers. This product should be disposed of in accordance with all applicable local and national regulations and to dispose of containers with care.

This material, as supplied, is not hazardous waste. This material could become a hazardous waste if it is mixed with or otherwise comes in contact with hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult appropriate national, regional, or local regulations for additional requirements.

Dispose of in accordance with local regulations.

SECTION 14: TRANSPORTATION INFORMATION

DOT Material Not Regulated or Classified Hazardous

UN-No. Material Not Regulated or Classified Hazardous

IATA Material Not Regulated or Classified Hazardous

IMDG/IMO Material Not Regulated or Classified Hazardous

SECTION 15: REGULATORY INFORMATION

ECHA/REACH

Povidone-Iodine substance is in ECHA pre-registration status.

EC List No. 918-309-2: Envisage registration (consideration) status deadline is 31-May-2018.

WHMIS / CANADA

Not Controlled.

SECTION 16: OTHER INFORMATION

Issue Date: 26-Mar-2014

Revision Date: 14-May-2018

Hazard Class Calculation: Classes calculated using:

- Globally Harmonized System of Classification and Labelling of Chemicals, Seventh Revised Edition. UN, 2017.
- Assessment Report: Iodine (including PVP-iodine), Product types 1, 3, 4, 22. Sweden, 13 December 2013.

After ECHA/REACH pre-registration deadline, status of PVP-iodine may change, requiring revision of this SDS and product hazard classifications.

Disclaimer:

The information provided in this SDS is correct and is to the best of our knowledge, at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.